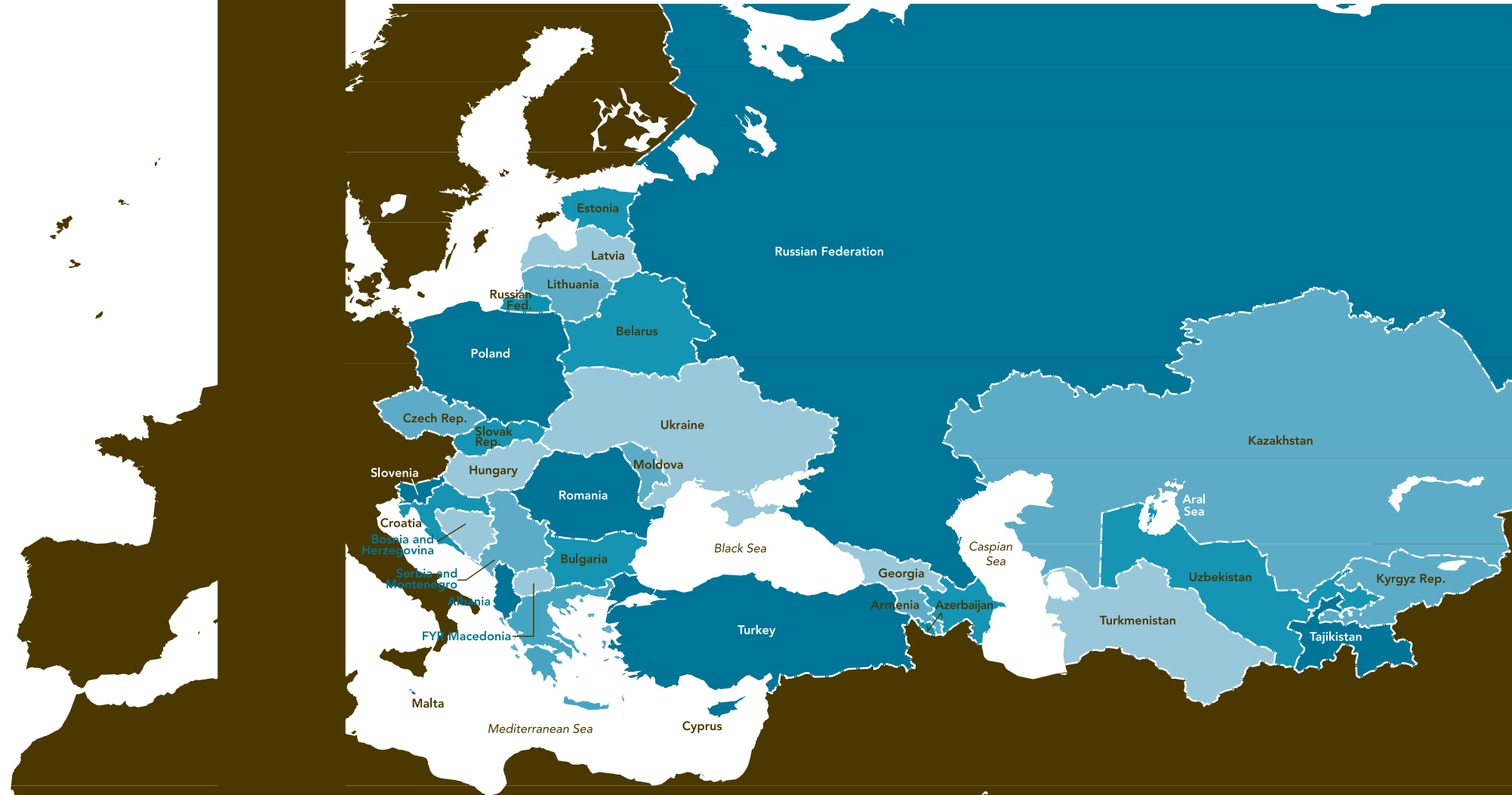


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**2007** PROFILE OF  
**SUSTAINABLE DEVELOPMENT**  
**DEPARTMENT ACTIVITIES**  
OF THE WORLD BANK IN EUROPE AND CENTRAL ASIA REGION



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## BACKGROUND

The Europe and Central Asia (ECA) Region<sup>1</sup> is home to an ethnically, culturally, and socially diverse population of 473 million occupying 23,370,720 sq. km of land area; the Region overall is rich in natural resources. The Region accounts for about 15% of the world's arable land, over 20% of its forest and freshwater resources, 10% of the world's oil, almost 40% of gas, and 5% of coal reserves. Infrastructure is well developed compared with other Regions, and about 65% of the population lives in urban areas, a higher proportion than most other Regions. Furthermore, because population growth is stagnant or declining in most countries, public services are not under extreme pressure. Years of substantial public investment in utilities, roads and energy infrastructure ensured wide-scale provision of these services to the economy. Employment security, relatively equal income distribution and access to health, education, and basic housing helped mitigate social tensions.

However, resources and access to infrastructure services are unevenly distributed among countries. The transition in the 1990s from a planned to a market economy has brought opportunities for development as well as challenges. Disparity in incomes is growing, both among countries, and within countries, among the largest cities on the one hand, and smaller towns and rural areas on the other. This disparity has exacerbated differences in access to and affordability of services, especially supplies of heat, and water and sanitation services. In more prosperous cities, increasing vehicle ownership and uncontrolled building development pose their own challenges. In coastal areas and some rural areas, pressures are increasing from tourism development and poor management of natural resources. Many countries are vulnerable to natural disasters, and given the many institutional and administrative changes that have accompanied the transition, development of coordinated planning and response systems has been a major challenge.

The emerging market economy and the decline in state provision of social services combined with surfacing of ethnic tensions in some newly independent countries have also led to increasing difficulties in providing for vulnerable groups and broader social inclusion. Civil society is developing rapidly but there are also broader institutional and governance challenges that all countries are working to address. The transition has also posed major challenges for agriculture, as owners of newly privatized farms, often inexperienced, have struggled to become competitive in newly opened markets.<sup>2</sup> Land management, land administration, and development of secure property rights and property markets have been a major challenge throughout the Region.

The impact of the transitional environment varied across the Region. All the countries except Turkey shared the experience of facing major economic collapse after the dissolution of the Soviet Union and the discontinuation of the

1. As defined by the World Bank, the Europe and Central Asia (ECA) Region includes the following 29 countries: Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Estonia, FYR Macedonia, Georgia, Hungary, Kazakhstan, Kyrgyz Republic, Latvia, Lithuania, Moldova, Montenegro, Poland, Romania, Russian Federation, Serbia, Slovak Republic, Slovenia, Tajikistan, Turkey, Turkmenistan, Ukraine, and Uzbekistan. Slovenia moved from borrower to donor status on March 17, 2004; so did Estonia and Lithuania. The World Bank maintains a separate assistance program in the Province of Kosovo (Serbia and Montenegro) which is under temporary administration by the United Nations according to UNSC 1244.

2. For more details see Infrastructure in Europe and Central Asia Region: Approaches to Sustainable Services. World Bank, 2006; World Development Indicators; ECA Rural Development Strategy 2002; Hazard Mitigation Strategy 2005; and Water Resources strategy 2004.

## THE MAIN OBJECTIVE OF THE WORLD BANK GROUP IN THE REGION

To fight poverty with passion and professional excellence for lasting results.

Council for Mutual Economic Assistance (CMEA).<sup>3</sup> Countries differed significantly in the duration and depth of economic crisis and in the rate and extent of economic recovery. Their responses to transition challenges varied widely in terms of policies, governance, and consumer behavior resulting in remarkably different outcomes. While there has been remarkable progress in many countries, poverty, inequality, and unemployment persist, which means that the World Bank poverty reduction mission is critically important.

ECA includes both middle-income countries that overcame the transition crisis relatively quickly and low-income countries that face severe economic and social challenges:

### NEW EUROPEAN UNION (EU) MEMBER STATES (EU10).

The World Bank has updated a partnership framework to provide support during the initial phase of EU membership to the ten new member states of the ECA Region (Bulgaria, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, and Slovenia).

**EU CANDIDATE COUNTRIES.** World Bank support increasingly focuses on assisting these countries in meeting the requirements of the EU *acquis communautaire*<sup>4</sup> as well as addressing broader development needs (Croatia, FYR Macedonia, and Turkey).

**WESTERN BALKANS.** The strategy has evolved from post-conflict stabilization and reconstruction to structural reform, institutional development, and integration into Europe (Albania, Bosnia and Herzegovina, Montenegro and Serbia including the Province of Kosovo under temporary administration by the UN).

**COMMONWEALTH OF INDEPENDENT STATES—MIDDLE-INCOME COUNTRIES (CIS-MI): KAZAKHSTAN, RUSSIAN FEDERATION, AND UKRAINE.** During a period of deepening reforms in the larger economies of the CIS, the World Bank is providing advisory services and selective

financial assistance for improving the business environment, boosting public sector reform, and mitigating social and environmental risks.

**OTHER CIS COUNTRIES.** The World Bank is working with the international community to accelerate growth and reduce poverty by providing advice and financial support for sustainable recovery and stability (Armenia, Azerbaijan, Belarus, Georgia, the Kyrgyz Republic, Moldova, Tajikistan, Turkmenistan, and Uzbekistan).

## BANK GROUP OBJECTIVES IN ECA

- Support economic transition to competitive, knowledge-based socially inclusive market economies
- Assist governments to protect public interest
  - Ensure competition
  - Protect the environment
  - Protect vulnerable citizens
  - Provide adequate public services
  - Create accountable, effective institutions
  - Mitigate natural disasters
  - Reduce the risk of conflict
- Facilitate private sector participation
  - Improve the business environment
  - Manage natural resources for sustainable growth
  - Promote social inclusion and opportunity
  - Participate in projects to provide assurance to development partners
  - Develop transparent regulatory frameworks
- Support Regional and global initiatives
  - Focus on projects with cross-border costs and benefits
  - Share information and experience
  - Select projects that protect global public goods
  - Integrate with EU policies as required

3. CMEA was an international organization active between 1956 and 1991 in the coordination of economic policy among a number of nations in the ECA Region.

4. The *acquis communautaire* are the laws, rules and regulations governing the EU.

In many cases, transnational initiatives are required for sustainable development of energy, water, transport, and land and forest resources. For example, in the Central Asian republics, water and fossil fuel resources are distributed unevenly. The downstream countries are rich in fossil fuels and the upstream countries in water. Water stored upstream is used both for irrigation and power generation services, but upstream and downstream countries lack a mechanism to reconcile their conflicting needs for water release to meet hydropower and agricultural demands. The construction of new energy outlets such as pipelines will depend on negotiating multi-country agreements. In South Eastern Europe energy development is being gradually integrated within the broader European grid network and market. There are broad agreements on sustainable water resource management of the Danube river basin, which includes twelve riparian countries, and initial steps have been taken on developing Regional approaches to disaster mitigation and protected areas management.

Similarly, trade and transportation require multi-country agreements and alignment. Without aggressive facilitation, results will be limited in trade and transport, in sector reforms and investments, and in the establishment of logistical and distribution centers. To reduce border crossing waits and to provide essential cost savings and growth of legal trade and transit, cooperation is needed among agencies such as customs and border police, transport authorities, and service suppliers, both within and between countries, and among the countries along the same transport corridors.

Below are the main issues in each sub-sector:

## AGRICULTURE AND RURAL DEVELOPMENT

### AGRICULTURAL COMPETITIVENESS

In many ECA countries, political and economic transition and the process of European integration have contributed to rapid changes in agriculture. Ten ECA countries have full membership

in the European Union, which means that they no longer operate under national agricultural policies, but domestically implement the EU Common Agricultural Policy (CAP) and an advanced institutional framework. Seven more countries are progressing rapidly toward candidate or prospective candidate status and many other countries participate in the European Neighborhood and Partnership Initiative.

Although the degree of applicability varies by country and sector, the main agricultural competitiveness issues are as follows:

- Capacity building in agricultural policy formulation, implementation, and institution building remains a core challenge across the ECA Region, especially in CIS countries. In the European countries, specialized capacity-building activities are required to ensure compliance with the dynamic regulatory environment under the European Neighborhood and Partnership Initiative, the EU Instrument(s) for Pre-Accession, and the EU Common Agricultural Policy and its support initiatives.
- Agricultural extension, vocational training, and information services require further revitalization, adjustment, or restructuring. These services, together with adequate training facilities, are central to improving knowledge about production technology and available support schemes. Services are also required to strengthen skills for crop and livestock management and marketing, and to comply with the application procedures of Common Agricultural Policy-type support programs.
- Many ECA countries have yet to fully elaborate and implement integrated country programs for Avian Influenza control, preparedness, and responses. Investments to improve the provision of public services for disease prevention, control, and containment need to be integrated with those in public health, public awareness, and communications. Improved advisory services on livestock management practices are also key to limiting future disease outbreaks and boosting the (re-)emerging competitiveness of agriculture in the ECA Region.

- Output market development and supply-chain integration remain weak in several countries, hindering farmers' integration into Regional, national, and eventually, export markets for their produce. For most ECA countries challenges remain in integrating farmers and agro-food supply chains, and facilitating market integrity—transparency, price discovery, and competitiveness. Emerging international retail chains in many ECA domestic agro-food markets will require support programs that more explicitly integrate advanced public-private partnerships.
- Throughout most ECA countries, international food safety standards have not been adequately implemented, restricting potential to supply European or other major international markets. If countries are to compete in international agro-food markets, investments are needed to build institutions, create on-site facilities to meet standards and certify food products, develop criteria for produce selection, and improve processing quality and safety.

## RESULTS ON THE GROUND: AGRICULTURAL REFORM IMPLEMENTATION PROJECT IN TURKEY

The overall objective is to help implement the Government agricultural reform program, which aims to remove distortions and subsidies, and provide incentives for producers and processors to increase productivity in response to comparative advantage. Agriculture accounts for over 30% of employment, so the program will also support broader growth and poverty alleviation.

The program has helped replace input and output subsidies with direct income support payments; it has built up a National Registry of Farmers to administer the system and extend the land cadastre, and it is assisting with farm consolidation. As Turkey moves towards EU integration, the project is also supporting participatory village investment projects and agri-environment measures, which will make Turkish farmers eligible for pre-accession funding. The project is also supporting farmer organizations and agricultural sales cooperatives reform.

## RURAL FINANCE

Access to financial services is a key element in (i) the fight against poverty in rural areas, (ii) governments' efforts to diversify the rural economy and (iii) increasing the competitiveness of the agricultural sector. Agricultural/rural state banks and/or state-subsidized agricultural credit lines have gradually disappeared, making it important for governments to seek market-based mechanisms to enhance the sustainable outreach of financial services in these sectors.

Commercial banks perceive the rural/agricultural sector as a market with high risk, high transaction costs and low returns. Products and lending technologies are often not tailored to these markets, contract enforcement (and collateral) is a significant impediment; potential clients may not have required information or documentation to access credits (e.g. land ownership, business plans). Countries also lack a satisfactory framework for the implementation of rural finance activities, including the high cost of developing physical infrastructure of the formal financial institutions, the lack of supporting institutions such as credit agencies, and weak supervision of the banking and/or non-banking financial sector.

Governments' challenges therefore include:

- Enhancing competition in the banking sector.
- Strengthening contract enforcement and collateral system.
- Providing an enabling legal, regulatory, and supervisory environment for a wide range of financial institutions (including banks, leasing companies, microfinance institutions, and credit cooperatives).
- Strengthening bank capacity to downscale and to develop products and lending technologies to reach the rural/agricultural sectors.
- Building capacity of non-banking financial institutions, including microfinance; institutions and credit cooperatives, to increase and sustain their outreach.



- Facilitating the creation of supporting institutions such as credit agencies or, possibly, deposit guarantees.
- Increasing the creditworthiness of the agricultural sector through measures such as value-chain/market development.
- Improving risk-mitigation measures such as the development of index-based weather-related or warehouse receipt mechanisms.
- Refraining from over-involvement in banking intermediation through subsidized credit lines.
- Provision of agricultural services such as technical agricultural and business extension, market information, rural credit and creditworthiness assistance, animal health services, marketplaces and organizations, land titling and farm consolidation assistance to new smallholders as they replace former collective farms. In EU accession countries, raising agricultural production standards towards EU levels is a high priority.

#### RURAL AND REGIONAL DEVELOPMENT

About 35% of the Region's population lives in rural areas. While in the past rural economies were highly dependent on agriculture and primary production, the challenge over the transition period has been to develop an enabling environment for development of more diversified economies, which deliver adequate services to their citizens, reflect local priorities and adapt to changing demographic realities. While there is significant diversity across countries in the types of issues that need to be addressed, some of the key issues that need attention are:

- Many countries that have moved from a highly centralized system of administration to a more decentralized system of responsibilities need also to develop decentralized fiscal mechanisms and local capacity to meet the new obligations.
- Development of a rational framework for allocation of resources from national to local levels—for national budgetary funds as well as assistance available under the various EU programs to accession and post-accession countries.
- Addressing the needs of lagging regions through developing rural infrastructure, providing advice and assistance for creating competitive local economies with vibrant service sectors, and supporting regional and local institution building.

#### RESULTS ON THE GROUND: RURAL FINANCE IN THE KYRGYZ REPUBLIC

The World Bank has been the principal promoter of Rural Finance in the Kyrgyz Republic since the latter's independence. After the collapse of the Soviet Union, all forms of rural, especially agricultural, lending virtually ceased. The emerging commercial banks were either too small, or lacked the interest in, or the requisite experience for rural/agricultural lending. As a stop-gap measure, the World Bank supported the creation of a state-owned, specialized rural/agricultural lending institution, the Kyrgyz Agricultural Finance Corporation (KAFC) in 1997, with the ultimate objective of its privatization once the financial markets picked up. KAFC (recently renamed Aiybank), remains the principal rural/agricultural lender, and one of the most profitable and financially sound financial institutions in the country. It is currently undergoing privatization with support from the World Bank and the "FIRST Initiative". The World Bank is also promoting agribusiness development by supporting Technical Assistance and providing Credit Lines to other commercial banks for Agribusiness Investment Financing.

## ENERGY

### COAL

Even after several years of restructuring and reduced production levels, the coal industry continues to be a major source of fuel and employment in many countries in Central and Eastern Europe. Indeed, with recent increases in oil and gas prices, the coal industry has become increasingly economic. Unfortunately, most state-owned mining companies have yet to modernize and focus their operations on the best coal deposits. Key issues in the coal sub-sector are as follows:

- Despite good progress in some countries in closing down loss-making mines and reducing subsidies to the sector, a portion of the industry throughout the Region remains uneconomic and places a substantial burden on the budget or, when prices are kept above import costs, on coal consumers.
- The geographic concentration of the negative social impact of mine closures, the lack of alternative employment opportunities, and the inevitable limitations of the social safety net complicate downsizing the industry.
- Even the best efforts cannot mitigate all negative social consequences of mine closures, as governments cannot mass-produce alternative jobs (offering each redundant miner a new job would be inefficient and unaffordable) and coal regions have so far failed to attract new, non-coal-related investments.
- Government intervention in coal import, export, and domestic marketing entails excessive reliance on regulatory authority and state ownership and continues to distort coal markets in certain countries.
- Occupational safety standards are dismal, and the environmental damage from coal mining and coal use is significant (and where mines are being privatized, the liability for past environmental damage from mining has not been clearly delineated).

- Traditionally mines were responsible for social services such as kindergartens, hospitals, housing, district heating, and cultural and sport facilities; these assets have generally suffered with the transfer to municipal governments.
- Miners are unionized and politically influential, and overstaffing is widespread even at the mines that break even financially.
- The level of private ownership in the coal industry has been increasing, but considerable State ownership remains in countries such as Ukraine.
- Key challenges remain in addressing long-term social impacts of sector restructuring (job creation, relocation, and social protection), and completing the withdrawal of the State from the management and financing of the sector.
- There are also significant opportunities to exploit lignite and coal deposits for power generation, particularly in the western Balkans.

### DISTRICT HEATING AND ENERGY EFFICIENCY

District heating is often the least-cost option for providing heat to high-density urban areas. In ECA, however, the district heating networks were constructed at a time when little attention was paid to energy efficiency. The technology and operating philosophy used are often incompatible with minimizing losses, measuring consumption, and providing a wide range of service levels geared to customers' ability or willingness to pay. The key issues relating to district heating and energy efficiency are:

- The gap remains particularly large between costs and prices in the residential heating market.
- Competition from improperly priced other network fuels reduces the district heating consumer base in several countries, threatening major investment distortions. District heating companies' poor service also contributes to a shrinking customer base.

- Central governments can no longer cover the cost of uniform service and there is limited scope for cross-subsidies because industrial customers can now produce their own heat.
- District heating regulation is delegated to local governments with increasing frequency, but few of them have the necessary regulatory experience.
- Individual metering of heat consumption is the best way to achieve savings at the apartment level but is often regarded as too costly.
- Collective metering is the second-best option but often there is no legal basis for collection of bills at the building level.
- Information is inadequate about energy-saving measures, including state-of-the-art technologies, financial benefits, and experience in applying them.
- Despite considerable potential for profitable investments in energy efficiency, significant financial barriers continue to deter investors.
- There are too few specialized energy service companies able to offer both expertise and financing.
- Prices generally cover costs, but in the countries of the former Soviet Union, payment collection remains a major problem, particularly in the gas sub-sector.
- Despite large gas reserves and generally well-developed gas transmission networks, gas is underutilized for space heating in most of the Region.
- Politicians' inclination to control resources and monopolists' desire to preserve privileged status create a powerful coalition against market liberalization, particularly for gas.
- Transportation of oil and gas to markets distant from production locations poses significant political and commercial risk.
- High oil prices have created a false sense of security in producing countries and have discouraged some countries from establishing business environments that support private investment (a critical source of funding that will be even more important should oil prices return to historical norms).
- Oil producers' major challenge is to ensure effective governance of their oil revenues.
- Russia's actions over the past two years have demonstrated that CIS importers of Russian gas can no longer expect to receive gas at prices well below international parity. For countries faced with the prospect of substantially higher gas costs, energy efficiency measures are increasingly imperative.

## OIL AND GAS

Some countries in the Region are particularly well-endowed with hydrocarbon resources. The key issues facing the oil and gas sub-sector are:

- Outmoded exploration/production technologies in some countries lead to poor production practices and cause pollution (e.g., excessive gas flaring, inadequately capped wells).
- There is excess refining capacity, configuration is obsolete, and environmental performance is poor.
- There remains a significant legacy of environmental damage in some oil producing countries.
- In several countries, inadequate legal and regulatory frameworks impede the inflow of foreign capital and know-how.

## POWER

A well-functioning power industry providing high-quality services at reasonable cost is an essential condition for economic recovery and growth in the Region. Key issues facing the industry are:

- Poor quality electricity supplied to end consumers in many regions (i.e., voltage instability, service interruptions).
- Excess power generation capacity in some regions and plants which are obsolete, overstaffed, heavily polluting, and sometimes unsafe.

- Emerging capacity shortages in some regions and the consequent need to integrate electricity markets to avoid unnecessary generation investments.
- Poor dispatch and communications systems.
- Low cost-recovery level due to low prices, high losses, and/or low collection rates.
- A rapidly changing industry model, which is shifting from vertically integrated, publicly owned monopolies towards unbundled, competitive systems either in a single sector or in several sectors simultaneously.
- The need to establish transparent, predictable regulatory frameworks, to attract private investors to the power industry.

## RESULTS ON THE GROUND: ENERGY PROGRAM IN UKRAINE

The recently approved Power Transmission Project and the on-going Hydropower Rehabilitation Project are specific investment projects in support of the comprehensive Energy Sector Reform and Development Program established as the framework for sector-wide cooperation and partnership between the Government of Ukraine and the World Bank. Subsequent investment operations to be included in the Energy Program would support priority projects to be identified by the Government's Commission for Energy Sector Reforms and Development. Among others, the World Bank will support the increasing energy efficiency and energy savings in power and heat generation, increasing domestic energy production and the share of renewable energy, strengthening of power transmission network, improving environmental performance of energy facilities and quality of energy services. Along with investments, the Energy Program includes a wide range of technical assistance to the Ministry of Fuel and Energy, the National Energy Regulatory Commission and project implementation entities, particularly for institutional development, capacity building, and harmonization of legal, regulatory and technical norms of the energy sector in Ukraine with the EU Internal Energy Market.

## RESULTS ON THE GROUND: REGIONAL POLICY FOR A REGIONAL ENERGY MARKET

Improving the balance between energy supply and demand is crucial to boost and sustain economic development in South Eastern Europe. This requires a strong commitment by the countries of the region towards market oriented reforms in order to: improve overall energy conservation and efficiency, reduce an excessively high energy intensity of production compared to international standards, strengthen national institutional capacities and adapt legislation and regulation to EU norms and practices. It also means that countries should be prepared to draw fully on the substantial gains which can result from energy trading among themselves and with their neighbors. This implies that the current fragmentation of energy supply is overcome through cooperation among the various entities concerned and through physical connection/reconnection of the network. A regional approach to energy supply, therefore, offers significant advantages both in terms of improved utilization of existing supply and production capacities as well as optimizing future investments.

The countries of South East Europe signed a memorandum of understanding on the development of a regional electricity market in 2002, and expanded the MOU in 2003 to also cover natural gas. These MOUs formed the basis of an internal Treaty, signed in October 2005 and effective from July 2006, formally establishing the Energy Community. The expansion of the Energy Community is envisioned, with Moldova, Norway and Ukraine expected to be among the first new members.

The Bank approved in January 2005 a US\$1 billion Adaptable Program Loan (APL) facility to support the development of the Energy Community. Two IBRD loans, to Romania and Turkey, have been approved from the APL facility, and two IDA credits, for Albania and Serbia, were approved in 2005. In 2006, IDA credits were approved for Bosnia and Herzegovina, FYR Macedonia, and Montenegro. An additional loan to Turkey aimed at strengthening, expanding, and upgrading electricity transmission network was also approved in 2006. It is expected that Albania, Macedonia and Romania will be accessing the facility in the coming year. These and other Bank clients participating in the Energy Community can apply for financing of electricity transmission and selected generation and distribution projects, but to qualify, they first must be on track with reforms.

The prospect of putting a regional energy market into place in a relatively short time is challenging, but it is an attainable goal. South East Europe is also working to develop a regional gas market, and the Bank is examining the development of a similar APL facility for gas.

### RENEWABLE ENERGY RESOURCES

Substantial unutilized renewable/alternative energy resources (among them small hydro, geothermal, biomass, wind, and solar) exist in several countries in the Region. The principal issues that need to be addressed are:

- Key policymakers do not know about these resources or they consider them marginal; therefore, little attention is paid to the development of renewable energy.
- The benefits of using the renewable energy resources are primarily global, i.e., no net carbon dioxide emissions, but the costs are local.
- Even if expected costs equal cost of hydrocarbons, the technology is often more risky.
- Traditional energy producers are often reluctant to change to renewable resources, in part because fuel supply arrangements are more complex and less tested.
- Distorted regulatory frameworks and subsidies that favor non-renewable energy resources and technologies reinforce this conservatism. At this stage, due to distorted energy prices, developing renewable energy often makes economic sense mainly in regions that are not connected to the grid/gas networks.
- Renewable energy is still new enough that financing is difficult to obtain, which is a major constraint to its development. A considerable knowledge gap exists in availability, use, and technologies for renewable energies.
- Carbon finance is a potential source of revenue for clean technology investments that contribute to reducing greenhouse gas emissions (compared with the emissions that would have been generated in the absence of the project proposal). However, the window of opportunity is rapidly closing for carbon transactions. Uncertainty abounds in the market about what will happen at the end of the Kyoto Protocol's first commitment period (2012), and whether a second commitment period will be negotiated. Therefore most transactions have been targeted to meet compliance needs up to 2012, emphasizing quick action to maximize carbon revenues for project finance,

particularly for infrastructure investments because it can take a long time from project preparation to 'first yield' of emission reductions.

### RESULTS ON THE GROUND: THE GEOTHERMAL ENERGY DEVELOPMENT PROGRAM (GEOFUND)

The Geothermal Energy Development Program (GeoFund) is the first region-wide Program that specifically addresses barriers to geothermal energy development. It supports the countries of the European and Central Asia region in their efforts to increase their share of renewable energy resources to reduce greenhouse gas emissions and diversify their energy resources. It is part of the World Bank energy strategy that aims to build its renewable energy pipeline as well as develop more streamlined approaches to using GEF resources.

The centerpiece of the GeoFund is the provision of a geological risk insurance to mitigate the geological risk associated with geothermal energy exploration and operation. The high risk and up-front cost of geothermal exploration and production is one of the key barriers to geothermal investments. A first grant has been made available to MOL and its partners to cover part of the exploratory drilling cost for a first geothermal power plant in Hungary. Subsequent risk insurances to project developers or investors of the ECA region will be made available during a time period of eight years.

A second grant to the International Geothermal Association (IGA) assists the countries of the Europe and Central Asia (ECA) region in the implementation of the Program through the provision of a region-wide technical assistance. The Program has as its main objectives to reduce barriers to, and promote, the use and development of the geothermal energy in the ECA region.

## ENVIRONMENT

### DISASTER MITIGATION AND IMPROVED WEATHER FORECASTING

ECA countries are vulnerable to natural disasters. In the north and west of the Region floods are the main risk, while Turkey, South East Europe, and parts of the Caucasus and Central Asia are vulnerable to earthquakes, floods, and drought. Many ECA countries had emergency management institutions before the transition, and weather forecasting services were well staffed. These public good functions were neglected during the early years of transition and arrangements for sharing hydrometeorological information between countries also fell apart. Key challenges can be summarized as follows:

- Effective disaster management requires a five-pillar approach: risk assessment, emergency preparedness, mitigation, institution building, and risk financing. Because most governments are concerned with shorter-term issues, resources provided for disaster preparedness are frequently insufficient, which increases social and economic losses.
- Response coordination is needed among national institutions, among national and local institutions, and civil society but institutional transition makes this difficult.
- Good governance, including enforcement of land use, town planning regulations, and building permits is key to ensuring that buildings are constructed to withstand earthquakes and are built on land that is not vulnerable to erosion or floods. Building a culture of governance among citizens and the authorities is a particular challenge.
- Key decisionmakers often do not appreciate the social and economic costs of poor disaster preparedness and inadequate weather forecasting.
- Trans-boundary cooperation is difficult in parts of the Region—in information sharing, in disaster planning, and in management of international resources such as river basins.

### RESULTS ON THE GROUND: EARTHQUAKE RECOVERY IN TURKEY

In 1999 a major earthquake in the Marmara Region killed 17,000 people and economic damage was estimated between 3.0 – 6.0% of GDP. A World Bank loan of US\$505 million supported the beginning of a recovery program that focused on emergency reconstruction of infrastructure and housing, development of a national emergency management system, and establishment of a disaster insurance scheme. As a result of the program more than 12,000 housing units were reconstructed, and 2.5 million households now have disaster insurance policies on their homes. As an indication of the new focus on integrated management, a US\$400 million loan was approved in 2005 focusing on disaster preparedness in the Istanbul Region.

### INDUSTRIAL POLLUTION MITIGATION

Most ECA countries were heavily industrialized, and economic restructuring has brought about environmental, social, and economic challenges. Environmental permit systems existed before 1990 but they were complex and difficult to enforce. Broader economic and price policies did not provide incentives for minimizing pollution.

- Moving toward integrated modern permit systems consistent with EU environmental directives is costly and institutionally challenging even for EU member and accession countries.
- Privatization programs need to assess environmental pollution legacies and the costs of environmental clean-up, and to design realistic and sequenced compliance programs.

Remaining environmental “hotspots” still pose hazards to human health, land, and water; examples include mine tailings and chemical dumpsites. Developing workable financing instruments for clean-up programs continues to be problematic. Use of innovative instruments such as carbon finance is still at an early stage, and more use could also be made of the PoPs (persistent organic pollutants) operational program of the Global Environment Facility.



## LAND ADMINISTRATION AND MANAGEMENT

Well functioning land administration systems (cadastre, land registration, land valuation and taxation) are essential to alleviate poverty, build a growth-conducive investment climate, and develop an integrated and strategic approach to planning and managing land resources. During market transition, the focus of the ECA land portfolio was to establish legal and institutional frameworks for land and real estate property rights (farm privatization, land restitution, and real estate cadastre and registration). The land policy and management agenda includes the following:

- Strengthening land administration systems to:
  - support quality service delivery, e-conveyancing, reduce transaction costs, and improve governance, transparency, and access to the property market; improve cost recovery and sustainability of the agencies providing land administration services;
  - support the development of land taxation, valuation, and land market information systems, and mortgage-based financial instruments;
  - support in general for cadastre and geographic information systems, and in particular for countries required to use EU CAP-mandated GIS-based Integrated Administration and Control System (IACS) for area-based support payments.
- Development of land policy frameworks and legislation conducive to more efficient and effective land administration and sustainable management of the land resource, leading to:
  - rural land development including the remaining areas requiring land restitution or farm privatization, and support to land consolidation projects that include rural and municipal services and infrastructure;
  - efficient conflict resolution mechanisms and the development of legal aid programs for disadvantaged property owners and tenants with possessory rights;

- improved management of condominium and other privately owned common property resources;
- improved management of State and Municipality-owned real property assets.
- State and municipal land-use planning improvement, as well as regulation and enforcement to increase investment opportunities and reduce illegal building and environmental degradation.
- Training and continuing professional development for land administration professionals (surveyors, registrars) and those who support property markets (notaries, lawyers, real estate agents).
- Country development strategies support, particularly providing co-financing where the EU prospects shore up the “territorial” dimension of cohesion policy, including funding delegation to urban centers to improve physical environment or support sustainable urban development or assistance to outermost Regions to compensate for cost of remoteness.

### RESULTS ON THE GROUND: LAND AND REAL ESTATE REGISTRATION PROJECT IN KYRGYZ REPUBLIC

A new land and real estate registry, Gosregister, is helping citizens mobilize capital, develop the private sector, and improve public sector governance. A US\$9.42 million World Bank-financed Credit supported Gosregister establishment and activities beginning in 2000. Gosregister has now systematically incorporated virtually all properties with buildings into the register, almost 1.2 million units in total, which has included the regularization of almost 600,000 units. Gosregister has also systematically added to the register another 600,000 land units that don't have buildings, and expects to have a total of about 2.4 million units of all types in the registry by the end of 2007. During 2005, Gosregister registered over 40,000 mortgages valued at more than US\$418 million. It also registered about 35,000 sales and 5,000 leases. Gosregister's data on public lands is improving the transparency and accountability of municipal governments. Gosregister has an excellent, well-deserved reputation for good customer service and efficiency.

## NATURAL RESOURCES MANAGEMENT

### FORESTRY, BIODIVERSITY AND LAND USE

Sustainable management of natural resources must balance short-term and long-term benefits, use and conservation. Sound resource management has global and local benefits; ECA accounts for 24% of the world's forested area and 20% of its arable land. Key challenges are as follows:

- There is a good understanding of the concept of biologically sustainable forest management in most countries but scope exists to modernize forest management practices to adopt multiple-use values.
- Natural resource management decision-making would benefit from more inclusion and involvement of local communities rather than the usual “top-down” approach.
- Ecosystem conservation needs to move toward integrating conservation and sustainable use and away from a focus on strict protection.
- Agricultural concerns need to expand to include landscape values instead of a narrow focus on production maximization.
- Restitution of forest and farm land to private individuals presents opportunities and challenges because private ownership may manifest short-term revenue maximization at the expense of longer-term sustainability.
- In many countries, rapid and repeated institutional changes have weakened oversight of the public good aspects of land and forests. For example, forest fires and pest management, and forest management information systems need to be modernized and made more transparent.

### RESULTS ON THE GROUND: IMPROVED FOREST MANAGEMENT IN RUSSIA

Russia's forested area is larger than that of any other country. During early transition, there were drastic cuts in public funding for forest management; forest utilization and oversight deteriorated and governance problems increased. A US\$60 million loan, approved in 2000, and a broader program of analytical and advisory services improved fire and pest management systems for 20 million ha, provided certification systems on sustainable management covering 9 million ha, and strengthened the investment climate for responsible forest industries. Russia has hosted an international conference on forest law and governance and has prepared an action plan to address illegal logging.

### IRRIGATION AND WATER RESOURCES MANAGEMENT

The ECA Region contains more fresh water than any continent except Antarctica. Broadly, the north and west of the Region are water-abundant but flood management and water quality are major challenges. The south and east are water-scarce; irrigation is the major water use and there are water quantity management issues, including allocation among uses. Irrigation is essential for agricultural production in many ECA countries, but especially in Central Asia and the Caucasus. During the last 15 years, irrigation reliability has decreased due to technical, managerial, and financial constraints, and infrastructure collapse has led to unreliable water supply and distribution, and problems with drainage, water logging, and salinity. River basin management also poses increasing trans-boundary challenges since the breakup of the Soviet Union and Yugoslavia. The main issues to be addressed include:

- Most trans-boundary river basins lack integrated water resources management, which is urgent to ensure that current and future water needs can be addressed. Countries preparing for EU integration are required to prepare integrated water resources management plans under the provisions of the Water Framework Directive but they face difficult institutional and political challenges.
- Inadequate river regulation, including reservoir management, management of gravel extraction, water flow and water-quality monitoring, flood and wetland management, and allocation among uses creates tensions among users and social and economic losses.



- Inadequate irrigation and drainage management, operation, and maintenance of infrastructure require improvements in the technical and financial performance of irrigation agencies to become efficient and client-oriented bulk water supply and management organizations.
- Water Users Associations are needed as participatory organizations that can take charge of the management, operation, and maintenance of lower-order systems.
- Poor construction and lack of maintenance means that much of the irrigation network is in disrepair, including dams. All countries need to prioritize rehabilitation needs because resources needed to rehabilitate and modernize existing systems exceed financial capacity.
- Users now contribute little or nothing towards operation and maintenance of irrigation systems; this has to change or more systems will go out of operation and recent rehabilitation investments will be unsustainable.
- Many irrigation systems in the Region are unviable, mainly due to high-lift pumping.
- Rapid changes to the way farming is structured have created significant challenges in water management.
- Low overall efficiency of irrigation and water use results more broadly in excessive abstractions from rivers and high drainage flows.

### **RESULTS ON THE GROUND: THE SYR DARYA-NORTHERN ARAL SEA CONTROL PROJECT, KAZAKHSTAN**

The project, which includes a US\$65 million loan, is the first phase of the rehabilitation of the Syr Darya Basin and Northern Aral Sea. The loan financed a series of works to improve the carrying capacity of the downstream portion of the river, revive the delta ecosystems and restore the northern portion of the Aral Sea. The Northern Aral Sea and delta lakes have been revived; the fishing industry and biodiversity are recovering in the area. Water delivery for agriculture and livestock grazing has improved, and settlements along the river have been protected from flooding. The project has helped economic and environmental recovery.

## **SOCIAL DEVELOPMENT**

Since the end of the 1990s, growth in the Region has rebounded in response to reforms, particularly in countries where EU accession has been a powerful catalyst for institutional development. Achieving stability, prosperity, and economic competitiveness depends not only on establishing sound policies, but also on accountable and well-functioning institutions that enjoy sufficient social support to implement policies and reforms. This support, in turn, depends on the inclusiveness and responsiveness of institutions that are able to negotiate differences among stakeholders and generate a sense of shared goals and objectives. Particular attention to social inclusion and social cohesion is important in societies that have recently resolved conflict or are undergoing a phase of difficult reforms likely to disproportionately affect certain groups, making them more vulnerable. The Region presents a wide range of social development challenges, ranging from pockets of vulnerability and deficiencies in resource allocation frameworks in EU accession countries, to limited citizen voice and participation in countries of Central Asia. Some key social issues that need to be addressed are:

- Social inclusion of groups which are vulnerable to exclusion and impoverishment due to their location, age, ethnicity, gender, employment status, and nationality. The nature of vulnerability varies by sub-region and country, and pockets of vulnerability continue to exist even among EU accession countries in spite of the overall pace of economic growth. Innovative outreach mechanisms are necessary to reach people affected by forms of social exclusion.
- Robust analysis of socioeconomic impacts of economic reforms, including impacts of enterprise closing and restructuring is needed, and active measures must be designed to mitigate such impacts. Apart from designing investment operations that support mitigation measures, there is also need for rigorous analysis of the impact of policy and institutional reforms on segments of the population.

- More equitable and transparent institutions need to be established by increasing support to bottom-up approaches that strengthen the demand for accountability and better governance from official structures. Open, accountable, and transparent institutions will strengthen citizen confidence and improve prospects for implementing reforms. This includes support to civil society organizations that help improve governance, deliver services to vulnerable groups, and advocate issues of sustainable development.
- Sustainable infrastructure development is needed that includes robust upstream stakeholder and institutional analysis, continued dialogue during implementation, and downstream measurement of outcomes from the stakeholders' and the institutional development point of view. This includes promoting the participation of beneficiaries and stakeholders in the development process and addressing adverse impacts on people affected by development projects.
- The second generation of post-conflict reconstruction should focus on stimulating economic growth in conflict-affected areas, building strong institutions, and promoting social cohesion among different groups.
- Attention must be paid to the increasing numbers of the Region's vulnerable youth because they are marginalized by higher levels of unemployment and excluded from decision-making processes.
- Support should be provided to develop small-scale infrastructure that is based on priorities determined by local governments and beneficiary communities; local governments should be strengthened in their task of managing local development.

### **RESULTS ON THE GROUND: RURAL INVESTMENT AND COMMUNITY DEVELOPMENT IN AZERBAIJAN**

Agriculture plays a central role in Azerbaijan's economy, employing 40% of the workforce and 90% of the rural population. However the disintegration of the state and collective farms had led to a rapid decline in rural services and infrastructure. The Azerbaijan Rural Investment Project (AzRIP) supports the Government's poverty reduction and regional development programs by providing funding and capacity building for investments in local economic and social infrastructure. Its development objective is for households in rural communities completing micro-project investments to improve living standards and increase the use of infrastructure services. To this end the project engages in a set of activities designed to build community capacity to work with local authorities to plan for community development. This facilitation is followed by funding for priority small rural infrastructure works. Among the micro-projects typically implemented are road rehabilitation, installation of water supply systems, and construction and rehabilitation of schools and health posts. AzRIP has been particularly innovative in building linkages (social capital) between project beneficiaries in different parts of the country, thereby helping people to learn from each other's experiences.

### **RESULTS ON THE GROUND: STRENGTHENING LOCAL GOVERNANCE AND ACCOUNTABILITY IN ALBANIA**

This three-year pilot funded by the Trust Fund for Environmentally Sustainable Development and the Bank of Netherlands Partnership Program aims to build demand for better governance and to strengthen participation in Albania and Kyrgyzstan. Citizens have high expectations of local government but they lack awareness of local government mandates, as a result there is a strong need for civic engagement in the governance process and in the improvement of local service delivery; policy formulation needs to be aligned with people's needs and aspirations. To address this a Participatory Budgeting Pilot was launched in four Albanian municipalities with the objective of improving local governance and accountability by enabling citizens to identify public investment priorities and influence local budget allocation and fiscal policies. The PBP has been tailored to the budgeting cycle of local government units, and has two phases: (a) Joint Citizen-Government Budget Formulation, and (b) Citizen Budget Monitoring and Local Government Feedback on Budget Expenditure. The pilot is being implemented in partnership with three local NGOs and representatives from the Ministry of Local Government, Ministry of Finance, Association of Albanian Municipalities, and Association of Albanian Communes. By creating a mechanism for linking budget formulation with citizen priorities, the pilot has increased transparency in the budget process, improved the alignment of local investments with citizen priorities, helped strengthen social mobilization, and created a channel for citizen voice.

### **RESULTS ON THE GROUND: SOCIALLY SUSTAINABLE MINE CLOSURE IN ROMANIA**

As part of its commitments to the EU, Romania has been stopping production at economically nonviable mines, to the extent that over the last decade employment in the sector has been reduced by 85%. Stopping production typically leaves behind significant social and environmental problems. The World Bank has been contributing to addressing both types of problems through two Mine Closure Projects. These projects have deployed a number of measures to mitigate the social impact and foster the socioeconomic regeneration of the mining regions. However, here we would like to emphasize the results achieved in addressing the second type of problem, through collaboration between infrastructure, environment, and social development in the context of technical mine closure and environmental remediation. Mine closure does not refer to stopping production. Rather it refers to the rehabilitation of mining sites so that they become useable by communities and cease to be sources of hazards and pollution. The approach to mine closure that has developed in Romania represents best practice in several respects. First, cutting edge mine closure techniques are being employed, such as backfilling open pit mines. This means that unusable high walls are knocked down into the pits, thereby creating rolling terrain suitable for agriculture and eliminating the hazards of extreme contours. The entire site can then be put to productive use by the community. Second, the implementing agency has learned that mine closure is best implemented in close consultation with communities. Not only does this largely eliminate opposition, it also means that the closure activities can become a vehicle for addressing community priorities. As a result of such collaboration, many of the mine closure projects have been able to include, e.g., quality access roads and drainage (flood control). Equally important, these methodologies and lessons learned are being disseminated through regulations, manuals, and university level training programs.

## TRANSPORT

In all ECA countries it is essential to ensure that transport contributes fully to economic growth and therefore poverty reduction. Given the poor state of transport networks in most countries, governments must accelerate the elimination of maintenance backlogs and make transport infrastructure improvement sustainable. Although transportation sector development and progress with institutional reforms varies significantly among countries in the Region, many common issues face the sector:

- Competition for and in the market must be developed.
- Regulations and enforcement must be strengthened, especially for operator licensing, traffic safety, and social welfare.
- Transport services that are essential to the poor and other socially vulnerable groups should be identified and provided at tariff levels that remain affordable; subsidies should be channeled under transparent public service contracts between transport operators and central or local governments; they should remain consistent with fiscal constraints.
- Labor retrenchment is necessary for efficient operations in the sector; its serious social implications must be addressed.
- Decentralization of transport network management and proper oversight of transport operations are critical to sector efficiency.
- Transport investment planning and procurement practices need to be improved.
- National transport policies should be revised to reflect changes driven by globalization and evolving manufacturing patterns, such as JIT (Just-in-Time Delivery), reduction of inventory on the road, and new business opportunities linked to telematics.
- The development of environmentally friendly transport systems should be accelerated.
- Access to services by persons with mobility handicaps needs to be broadened.

### RESULTS ON THE GROUND: ROADS IN POLAND

Investment in the program of three annual consecutive projects (2004-2006) is expected to yield high returns in terms of reductions in transport costs, pollution and number of accidents. This last point is crucial: prior to the start of the program, road accidents were plaguing the country; it was estimated that the cost of accidents equaled 2% of Poland's GDP.

Work on these projects has increased the percentage of national roads in good condition from 35% in 2003 to 52% in 2006, and it is projected that 60% will have reached that target by 2009. Road safety improvements have been also significant as a consequence of the program. Although traffic has increased by 20% since Poland joined the European Union, there has been a steady decline in accident fatalities, which totaled 5,640 in 2004 and are projected to drop below 4,500 by 2009. The Polish Road Administration is pursuing an ambitious modernization plan that is improving its management, programming and planning capacities, and helps with faster and more efficient absorption of the EU funds.

Each transportation mode faces additional specific challenges, which include:

#### INTERNATIONAL TRADE AND TRANSPORTATION

- The transportation sector requires aggressive trade and transport facilitation, reforms, and investment; it also needs to establish logistical and distribution centers.
- Cooperation among border agencies (customs, border police, veterinary and phyto-sanitary controllers), transport authorities, and service suppliers both within and among countries along the same transport corridors is needed to reduce waiting times at the borders; this would reduce overall transport costs and promote the growth of legal trade and transit.
- Reducing overall transit times for international transport and increasing the competitiveness of Regional transport corridors will require reform of customs policies, in particular, to introduce risk management selectivity.

## RESULTS ON THE GROUND: TRANSPORT OPERATIONS IN ROMANIA

The Bank has been supporting Romania's transport sector directly through various operations—starting with the First and Second Roads projects, then the Railway Rehabilitation project, the current Transport restructuring project, and a Transport Sector Support Project which is in the final stages of preparation. The Roads projects financed rehabilitation of national roads, construction of bypasses, and institutional capacity building. The Railways project financed new rail equipment, the development of an integrated railway information system (IRIS) and the re-organization of the railways in Romania. The on-going Transport Restructuring Project builds on the experience accumulated in previous projects, to broaden coverage on the road network, introduces design/build contracts to Romania, and is designed to improve institutional capacity ahead of EU integration. The recently approved Transport Sector Support Project will co-finance the maintenance and rehabilitation of both road and rail infrastructure in Romania, particularly those that do not qualify for EU grants.

The measurable results have been a significant reduction in transport costs on the road sections financed by the Bank, reduction in lead pollution (67% lower) and remarkable improvement in road safety (reduced by 3% p.a. by number of road traffic crashes). Institutional capacity of the road agency and the rail companies still need to be improved in order to improve management capacity and the implementation of all types of projects financed by EU grants and by other IFIs. The reform of the railways has been highly successful with the creation of 3 separate companies responsible for infrastructure management, freight operations, and passenger operations, leading to a significant improvement in labor productivity over the ten year period (1996 – 2005).

## RAILWAYS

- Basic reforms—separating policymakers, regulators, and enterprises—have already been introduced in EU member, candidate, and other countries; but reforms remain a challenge for some CIS countries.
- Essential elements of railway reform have yet to be undertaken in many countries: redefining government roles, establishing fair competition rules, converting technical inspectorate to rail regulator, fiscal decentralization, and capacity development among regional and municipal governments.
- To improve efficiency and financial sustainability, rail transport operations must be unbundled along business lines, and modern transparent cost accounting and information systems must be introduced.
- Closure of uneconomic lines and further reductions in staff numbers will be necessary in order to make railway operations financially viable.
- Railways should focus on core business functions and divest non-core services (schools, hotels, etc) as soon as possible.
- To increase competitiveness and improve safety and speed, rail transport needs to renew rolling stock, rehabilitate tracks, and modernize signaling.
- To improve competition and service quality, rail transport needs to implement non-discriminatory track access rights and liberalize freight tariffs to create reasonable, transparent, and realistic charges.

## RESULTS ON THE GROUND: RAILWAY REFORM IN THE WESTERN BALKANS

In 2004, the Bank produced a regional framework paper for transport in Southeast Europe. A major issue in the paper was the poor performance of the railways of the region, particularly in the Western Balkans countries. In 2005 the Bank undertook a more detailed study of the current condition and needs of the individual railways (Railway Reform in the Western Balkans). The objectives of the reform process were defined as reducing the subsidy needs, while also: (i) providing for appropriate levels of safe and effective rail transportation to support economic activity in each country and the region; (ii) allowing for efficient provision of necessary social services, e.g., passenger services or community access; and (iii) producing an economically viable rail sector that is able to compete effectively and renew its assets. A key element in the process was the reintegration of the railway activities in the region according to the EU Directives for railway sector reform.

The achievement of these objectives was acknowledged to be a tremendous challenge; to assist the process, the Bank launched a new regional initiative. The first stage in this process was a regional workshop, co-hosted with Italian Railways (FS) in Rome in May 2006. The workshop, which was very well received, was attended by representatives from the governments and the railways, the European Union, the Community of European Railways, the European Bank for Reconstruction and Development, and the European Investment Bank.

The World Bank and the European Commission agreed to pursue the idea of promoting the *South East European Railway Transport Area (SEE-RTA)* as a comprehensive regional program. The vision for the proposed regional project is that it should integrate and coordinate all existing

railway sector initiatives to achieve the 'critical mass' that will be required to meet regional transportation demands and overarching market goals. This involves a holistic approach to the restructuring process of the railways based on the European Union legal and institutional approach. Ideally, all SEE railways would implement—broadly in parallel across the region—a set of similar, synchronized, and sequenced actions. Among other benefits, such a program would help to integrate the fragmented rail network of SEE into the European transport system.

The goals of the SEE-RTA and the ways for achieving them have been debated with the countries and other donors during the Transport ISG Meeting—(November 29, 2006), the 10th SEETO Meeting (November 30, 2006), and the Second Annual Ministerial Meeting on the Development of the SEE Regional Transport Core Network (December 1, 2006). Several meetings between the World Bank and European Commission officials took place in Brussels during 2006 and 2007.

In order to better fit the new initiative into the existing programs in the region it was agreed to use, for the implementation of the *SEE Railway Transport Area*, the institutional framework created by the MoU on the Development of the South East Europe Core Regional Transport Network signed in Luxembourg in June 2004. The World Bank and European Commission experts agreed an Addendum to the MoU on the development of the SEE Core Regional Transport Network for *South East European Railway Transport Area*. The Addendum is expected to be approved by the countries until the end of October 2007 and shall be promoted to be signed during the next Ministerial Meeting on the Development of the SEE Regional Transport Core Network, before the end of 2007.



### ROADS AND ROAD TRANSPORTATION

- Road administrations must become commercially operated, limit their activities to management, replace force account work with competitively selected private contractors, and let road users oversee their performance.
- Road networks must be reclassified to better reflect ownership and accountability at central, regional, and local government levels.
- The road transport sector urgently needs to formulate and implement comprehensive National Traffic Safety Programs (supported by an inter-ministerial road safety committee and in close cooperation with traffic police), particularly in urban areas.
- Road financing systems must be modernized to draw on road-user charges, especially to fund road maintenance, and to allocate budgets for investments based on economic viability/evaluation.
- National network connections to international networks must be improved (with cautious/close regard for the Trans-European Networks, Pan-European and Euro-Asian corridors, and economic areas).
- Rapid growth of road freight transport requires immediate strengthening of the bearing capacity of the road network, including bridges, to carry larger vehicles with higher axle loads.
- Rural roads require significant quality improvements and management restructuring.
- Improved market access (according to licensing conditions in Europe) and increased competitiveness in road transport operations will require vocational and managerial training for transport operators.

### RESULTS ON THE GROUND: REIMBURSABLE TECHNICAL ASSISTANCE IN RUSSIA

The St. Petersburg Western High Speed Diameter (WHSD) is being designed as the first public-private-partnership (PPP) road project in Russia, under the Russian Federation Law on Concessions approved in July 2005. The project is a strategic investment that will determine the development of St. Petersburg as a major transportation hub of international significance. The aim of the project is to build a new highway for cargo and passenger transfer along the routes of their maximum concentration connecting southern, central and northern districts of St. Petersburg, as well as linking city transportation hubs, including the Grand seaport, to the country's federal road network. The road will be tolled under an open toll system providing income for the private investor. The project has an innovative capital structure and financing plan that uses Government grants to catalyze private finance through a PPP structure. The total construction costs of RUB 83.7 billion (US\$2.7 billion) is funded jointly by the Investment Fund of the Russian Federation (34%), and the Government of St. Petersburg (16%). The remaining 50% is being sourced from private investors.

The World Bank is involved in project implementation on a fee-for-service basis. The Bank will provide reimbursable technical assistance (RTA) and act as Independent Investment Consultant selected by the Government of St. Petersburg in accordance with the Statute of the Russian Federation Investment Fund. This is the first RTA provided by the Bank in the ECA Region.

The main objective of the RTA is to advise the St. Petersburg Government in designing and development of the project. The RTA provided by the Bank will include two phases: (1) a detailed review of the project feasibility to secure financing from the Investment Fund and advice on strategic options for the proposed PPP; and (2) upon approval of the strategic options report, to assist the Government of St. Petersburg during the PPP transaction process, including a prequalification phase and a public competitive bidding selection process. As a result of the assistance provided so far by the World Bank Advisory Team, the WHSD has been approved by the RF Investment Fund, which has confirmed its financial support through a grant of about US\$1 billion. Pending a Russian Federation Decree establishing the project Tender Evaluation Committee, the publication of the Bid Instructions Document is foreseen before the end of 2006, and the whole PPP transaction should be completed by the end of the year 2007.

## MARITIME TRANSPORT, INLAND NAVIGATION AND PORTS

- Commercial port management must be introduced.
- Efficient port operations require conversion of traditional ports into landlord ports, (port authority and commercial operations are clearly separated).
- Environmental protection is urgently required in many countries (breakwaters, dredging, dangerous goods delivery policies and enforcement, and technical inspection of vessel registration rules).
- Better utilization of inland waterways will offer more environmentally friendly modal split, and wider choice for consumers.

## URBAN TRANSPORTATION

- Urban transport needs to achieve a healthy modal split, mitigate the impacts of rapid motorization (a focus for more developed cities in the Region), and revise pricing policies for road use and services.
- Market competition will improve public sector efficiency and encourage a level playing field for the private sector: reduced subsidies or channeling them through PSCs is becoming increasingly important in more developed ECA cities.
- Rapid growth of informal sector operators solved public transport services in less developed cities; now the task is to improve service quality and reliability by introducing franchising systems adapted to local conditions and by facilitating private operator development and growth.
- Urban area freight logistics require new approaches and solutions.
- Institutional changes and capacity improvements, particularly in municipalities, are essential to achieving effective and decentralized urban transport management (including infrastructure rehabilitation and maintenance, traffic management modernization).
- Fleet renewal is crucial for most operators.

## RESULTS ON THE GROUND: RIJEKA PORT IN CROATIA

Over the past four years, the Rijeka Gateway project has generated new momentum in port development, city life quality and connectivity to major corridors in the third largest city in Croatia. The port has reestablished its relevance in container transportation reaching 94,400 TEU containers in 2006 compared to 7,000 in 1999, enabling the port to improve its financial performance. A new section of the Rijeka road bypass has been opened and the east connection road is expected to open later this year, ensuring greater traffic flows. Preparation for the conversion of part of the port area into an urban area is ongoing.

Through the Rijeka Gateway Project and the Rijeka Gateway II project under preparation, the Bank is helping the government of Croatia to restore the port's full potential. "It is a unique endeavor which balances port development, corridor development, and urban revival through projects aimed at further increasing Rijeka's competitiveness as a city-port and as an urban growth center," says Gerald Ollivier, Team Leader for the project.

Under these two projects, based on an updated masterplan for the port development and the new general urbanistic plan, several priority port terminals will be built while spatial organization between the port and the city will be rethought. The passenger port will be modernized, new roads opened and parts of the old port will be converted into a new destination within the city with a pedestrian area, promenade, and marina, following in the footsteps of cities such as Baltimore, New Orleans, and Bilbao, which have redeveloped old port areas as attractive and profitable retail, office, and public space. This reconversion will triple the waterfront access for Rijeka citizens and tourists and is expected to generate approximately 2000 jobs in Rijeka and more than another 1000 jobs in the surrounding region, upon completion.



## AVIATION

- Air safety and security improvements are essential throughout the Region; these will require multi-country cooperation for investment and oversight.
- Large scale aviation reforms and investments (separation of airlines, airports, and air traffic management operations) are being implemented in many ECA countries; concessions and privatization should be considered.
- Phasing out subsidies to airlines and exposing them to increasingly liberal market conditions would lead to improved efficiency and, under competent management, to successful privatization.
- Fleet renewal is critical for most operators in order to improve safety and to access international markets.

## URBAN AND MUNICIPAL DEVELOPMENT

Cities and the policies that affect them are crucial to building a market economy and achieving stable and equitable growth in the Region. Throughout the Region, cities and towns are home to two-thirds of the population, and half of the Region's poor; these urban dwellers contribute the major share to GDP. Local authorities are challenged by supporting economic development and adjusting to market conditions while shouldering the expanded responsibilities of decentralization. Conditions vary widely across the Region, but some key issues that need to be addressed include:

- Housing, electricity, heating, water, and transportation are basic urban services that suffer from poor maintenance and lack of cost recovery.
- Tariff increases should be accompanied by better systems for targeted state support so the poor are not differentially disadvantaged; markets need to be developed for these goods.
- Many countries lack the local tax base and legal framework necessary to achieve long term creditworthiness and access financial markets so they can meet local investment requirements.
- Cities need institutions that support the establishment of new businesses and supply the infrastructure and social services that modern businesses demand.
- The very high cost of getting access to suitable locations for businesses (including lengthy licensing procedures and exorbitant taxes) must be reduced.
- Municipalities still own sizeable portions of urban land, the legal basis for property transactions is often unclear, and land use regulations are excessively restrictive.
- Public and private assets and services management can be governed by city administrations only if these institutions are supported and safeguarded by a legal framework that is consistently and equitably enforced (in many countries, this basic legal framework must be developed from a very thin base).

## RESULTS ON THE GROUND: SUBNATIONAL FINANCE HELPS TO MODERNIZE ROADS IN THE CHUVASH REPUBLIC (RUSSIAN FEDERATION)

The Chuvash Republic, one of the 86 federal republics of the Russian Federation, has sought assistance from the Bank to finance its ambitious roads modernization program. 550 km new rural roads will connect 57,000 people to the all-weather road network; and the rehabilitation of 450 km roads that are presently in poor condition will help to conserve valuable road network assets.

The first phase of the project to be implemented in 2007 is financed through a RUR1.3 billion (US\$49.7 million) local currency loan to Chuvashavtodor, a road development enterprise owned by the republic. Having opted for a loan without national guarantee Chuvash Republic gains access to long-term local currency funding on reasonable terms that otherwise would not have been accessible. This is the second subnational finance investment in Russia. In June 2006 the Republic successfully issued a bond partially guaranteed by the joint Bank-IFC Subnational Finance Department.

With an overall project volume of RUR4.2 billion (US\$160.7 million), this very high priority program will ensure reliable all-season access to markets and services, reduce transportation costs and lead to improved competitiveness and more economic growth in agriculture—an important source of income for the rural residents in 360 currently isolated communities. It also strengthens the Republic's road management capacity. Parallel Technical Assistance to the Roads Department introduces modern road asset management and maintenance practices and improves road investment prioritization techniques. Increasing competition in the road construction industry will expand opportunities for private sector investment.

## WATER SUPPLY AND SANITATION

The reliability and quality of water supply and sanitation services in ECA have deteriorated significantly in the last decade, except in new EU member states and Turkey. The main issues to be addressed in the sector include:

- Resource needs outstrip present financial capacity in most countries of the Region (to rehabilitate existing systems, to provide safe water and sanitation, to treat wastewater).
- Networks and treatment plants are in a state of severe disrepair due to poor planning and design, low-quality materials, and lack of maintenance.
- Energy consumption is high due to design of pumping stations, old equipment, and low levels of automation (sometimes 60% of the water pumped is lost and adequate pressure cannot be applied due to severe corrosion and associated leakages in pipe networks).
- Low tariffs lead to significant levels of water waste—consumers (households, industry, and public agencies) are not accustomed to water conservation; widespread use of norms reflecting a lack of metering exacerbates the issue.
- An unprecedented financial crisis exists in the sector due to factors including low domestic tariffs, poor revenue collection, loss of subsidies, political interference in tariff setting, and practices such as barter and offsets (large debts to suppliers, most notably electricity, have accumulated in many CIS states).
- Managers lack reliable operational and financial information, autonomy, and control over crucial aspects of their business making it difficult to run operations efficiently or plan for system development.
- Water utility staff are generally well educated and demonstrate great resourcefulness, but most utilities are overstaffed and there is little expertise in commercial utility management, financial management, or cost-efficient planning.
- Pollution from discharge of untreated waste from municipal and industrial sources pose serious health risks, yet costs of adequate wastewater treatment would threaten many utilities' financial viability.

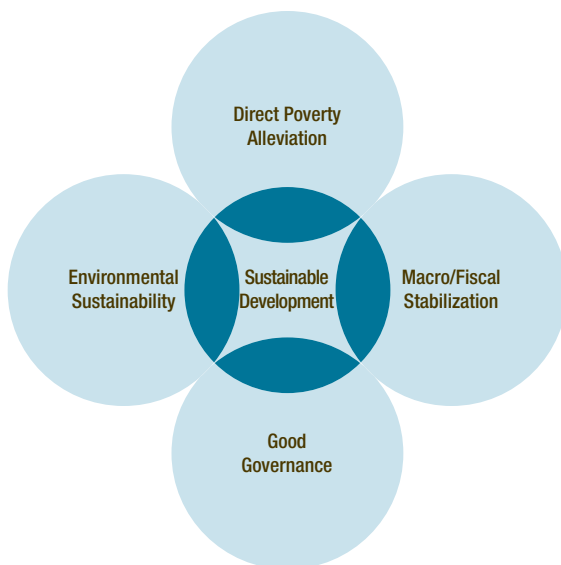
## **RESULTS ON THE GROUND: WATER SUPPLY IN ARMENIA**

Armenia is leading former Soviet Union countries in drinking water improvements, and a November 2005 OECD Ministerial Conference concluded the Armenian experience is a useful reference for other countries in the region. Under a World Bank-financed management contract, water service in the capital city, Yerevan, increased from seven hours daily to over 18 hours, electricity consumption by the water utility reduced by half, water customer metering increased from near zero to more than 90%, and revenue collection increased from 20% of billing to 80%.

In June 2006, the Yerevan management contract was followed by a ten-year lease supported by a World Bank-financed program of investments. Outside Yerevan, other Armenian communities are benefiting from a second water utility management contract, also World Bank-financed, which after two years of operation already has achieved significant improvements—the number of cities with at least minimal water service has more than doubled and more than 50% of customers now receive a meter-based bill, versus less than one-third before the project. Armenia's promotion of innovative sector reforms together with private management of its water utilities is yielding dramatic improvement in the country's long deficient water services in both Yerevan and communities outside Yerevan.

# MILLENNIUM DEVELOPMENT GOALS AND WORLD BANK GROUP CORPORATE STRATEGY WITH REGARD TO SUSTAINABLE DEVELOPMENT

The World Bank is committed to pursuing the Millennium Development Goals (MDGs) agreed at the UN General Assembly in September 2000. In broad terms, these goals aim to cut by half the number of people living in poverty by 2015, provide education to all, improve health, and preserve the environment.



## MDGs

1. Eradicate extreme poverty and hunger
2. Achieve universal primary education
3. Promote gender equality and empower women
4. Reduce child mortality
5. Improve maternal health
6. Combat HIV/AIDS, malaria and other diseases
7. Ensure environmental sustainability
8. Develop global partnership for development

Millennium Development Goal number seven (MDG7)—related to environmental sustainability—reflects the worldwide human aspiration to reverse the loss of critical environmental resources, improve sustainable access to safe water and adequate sanitation, and eradicate slum conditions.

When the UN framework indicators are used “at face value” to measure access to water and sanitation infrastructure, and the number of people living in slums, most ECA countries, including some of the poorer ones, appear to be on track to meet their MDG targets. However, this perception is not shared by the users of water and sanitation systems in particular in urban areas. In most cities in the Region, water is piped to individual apartments and homes, and flush toilet systems and pipes are in place to remove wastewater. However these extensive systems have deteriorated during an extended period of underinvestment and poor maintenance. As a result, serious problems exist with the reliability and quality of piped water and sewerage networks. Mere connection to infrastructure does not guarantee sustainable and safe access to services.

Official MDG statistics on slums may also underestimate the scale of the problem in ECA. The countries do not have an agreed term or definition for a slum or relevant statistics. Using indicators such as inadequate access to infrastructure, overcrowding, poor structural quality of housing, and insecurity of tenure, a large percentage of the urban population could be considered to be living in slums. In particular multistory urban buildings can often be classified in the UN terminology as “slums of despair”, i.e., declining neighborhoods in which environmental conditions and domestic services are degenerating.

The MDG 7 environmental sustainability targets aim to reverse environmental resource loss and integrate the principles of sustainable development into country policies and programs. Most ECA countries do not face social and economic pressures from natural resource depletion equal

to those of developing countries; nevertheless, in some ECA countries, environmental resources are at serious risk. The unsustainable use of forests, soil, and water, and the pollution of air, water, and land undermine sustainable development and damage the health and welfare of citizens.

To help realize the MDG goals, the World Bank Group pursues the following major business lines across all the countries of the Region.

#### **1. IMPROVE SOCIAL CONDITIONS BY...**

- facilitating access to modern services and fuels
- concentrating on cost recovery matched with well-designed social protection systems
- improving the quality of energy and infrastructure services for low-income households, schools, and hospitals
- ensuring that energy and infrastructure subsidies are targeted and reach the poor
- promoting energy-efficient/less-polluting end-use technologies
- providing more people with sustainable access to water sources and sanitation

#### **2. PROMOTE EFFICIENT AND TRANSPARENT GOVERNMENT BY...**

- rationalizing energy and infrastructure taxes
- replacing public investments by private ones, when appropriate
- continuing reform and restructuring even if privatization may not be feasible in the short term
- managing risks associated with contingent public liabilities
- monitoring technical, managerial, and financial performance to increase accountability
- closing loss-making coal mines and oil refineries; financing restructuring costs that fall on government budgets
- eliminating operating subsidies to state-owned energy and infrastructure enterprises and boosting budget revenues through commercialization

- reducing systematically the infrastructure contributions to quasi-fiscal deficit
- reforming customs and cross-border trade and transportation policies and programs

### 3. IMPROVE INVESTMENT CLIMATE BY...

- creating objective, transparent, non-discriminatory regulatory mechanisms
- introducing and expanding competition and cross-border trade
- divesting assets to strategic investors in a socially responsible and corruption-free way
- catalyzing private partnerships and investments
- adopting business-driven privatization strategies
- strengthening the voice of consumers and communities
- facilitating public-private partnerships and private provision of infrastructure services

### 4. ENHANCING SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES BY...

- strengthening environmental institutions
- demonstrating that mainstreaming environmental considerations into government programs and investment projects makes economic sense
- supporting sustainable management of biodiversity, forests, and watersheds
- promoting environmentally sustainable agricultural practices
- reducing industrial pollution and urban environmental health risk
- revitalizing polluted sites
- mainstreaming environment into agriculture and broader land use policies
- developing an integrated approach to management of water resources

### 5. PROTECT GLOBAL PUBLIC GOODS BY...

- promoting cleaner transport fuels and switching from coal to gas
- improving access to cleaner and safer water supplies

- facilitating environmentally sustainable extraction, production, processing, transport, and distribution of oil, gas, and coal
- strengthening environmental management capacity in the energy and infrastructure sector
- removing market barriers to renewable energy and energy efficiency investments
- reducing road accidents and road vehicles' emissions of lead
- reducing gas flaring, facilitating carbon trading and joint investments to reduce GHG emissions
- protecting globally significant biological resources and ecosystems
- mainstreaming conservation into broader land and water management
- incorporating climate-change mitigation measures into natural resource management

## OUR CLIENT COUNTRIES AT A GLANCE

COUNTRY	POPULATION TOTAL; 2006	GDP PER CAPITA CONSTANT 2000 US\$; 2006	GDP GROWTH ANNUAL %; 2006	URBAN POPULATION % OF TOTAL; 2006	RURAL POPULATION % OF TOTAL POPULATION; 2006	IMPROVED WATER SOURCE % OF POPULATION WITH ACCESS; 2004	IMPROVED SANITATION FACILITIES % OF POPULATION WITH ACCESS; 2004	ENERGY PRODUCTION KT OF OIL EQUIVALENT; 2004	ENERGY USE KT OF OIL EQUIVALENT; 2004
Albania	3,137,503	1,604	5	46	54	96	91	980	2,365
Armenia	3,007,195	1,284	13	64	36	92	83	746	2,129
Azerbaijan	8,474,402	1,576	35	52	48	77	54	20,053	12,948
Belarus	9,715,950	2,070	10	73	27	100	84	3,624	26,776
Bosnia and Herzegovina	3,908,458	1,741	6	46	54	97	95	3,249	4,704
Bulgaria	7,699,020	2,256	6	70	30	99	99	10,270	18,941
Croatia	4,437,665	5,461	5	57	43	100	100	3,872	8,820
Czech Republic	10,218,426	7,040	6	74	27	100	98	34,242	45,527
Estonia	1,341,042	6,945	11	69	31	100	97	3,551	5,174
Georgia	4,436,486	1,071	9	52	48	82	94	1,287	2,828
Hungary	10,056,253	6,126	4	67	33	99	95	10,235	26,355
Kazakhstan	15,308,084	2,164	11	58	42	86	72	118,597	54,819
Kyrgyz Republic	5,199,756	326	3	36	64	77	59	1,482	2,780
Latvia	2,286,634	5,683	12	68	32	99	78	2,140	4,598
Lithuania	3,396,863	5,247	8	67	33	..	..	5,212	9,159
Macedonia, FYR	2,037,834	1,940	3	70	30	..	..	1,536	2,696
Moldova	3,843,000	492	4	47	53	92	68	84	3,384
Montenegro	606,000	1,881	7	..	..	..	..	..	..
Poland	38,112,413	5,521	6	62	38	..	..	78,815	91,742
Romania	21,541,893	2,443	8	54	46	57	..	28,110	38,565
Russian Federation	142,367,582	2,621	7	73	27	97	87	1,158,465	641,532
Serbia	7,439,000	1,157	6	..	..	..	..	..	..
Slovak Republic	5,384,598	5,126	8	56	44	100	99	6,456	18,336
Slovenia	1,997,592	12,047	5	51	49	..	..	3,439	7,171
Tajikistan	6,652,000	247	7	25	75	59	51	1,517	3,335
Turkey	72,935,323	3,582	6	68	32	96	88	24,111	81,905
Turkmenistan	4,896,914	645	19	47	53	72	62	58,151	15,560
Ukraine	46,571,153	1,040	7	68	32	96	96	76,287	140,333
Uzbekistan	26,540,312	724	7	37	63	82	67	56,867	53,994

<b>ENERGY USE</b> KG OF OIL EQUIVALENT PER CAPITA; 2006	<b>ENERGY IMPORTS, NET</b> % OF ENERGY USE; 2004	<b>ROADS, PAVED</b> % OF TOTAL ROADS; 1998-2005	<b>ROADS, GOODS TRANSPORTED</b> MILLION TON-KM; 1998-2005	<b>RAIL LINES</b> TOTAL ROUTE-KM; 2005	<b>RAILWAYS, GOODS TRANSPORTED</b> MILLION TON-KM; 2004-2005	<b>AIR TRANSPORT, FREIGHT</b> MILLION TONS PER KM; 2003-2005	<b>AGRICULTURE, VALUE ADDED</b> % OF GDP; 2004-2006	<b>ARABLE LAND</b> % OF LAND AREA; 2003-2005	<b>IRRIGATED LAND</b> % OF CROPLAND; 2003	<b>FOOD PRODUCTION INDEX</b> 1999-2001 = 100; 2004	<b>FOREST AREA</b> % OF LAND AREA; 2005	<b>RENEWABLE INTERNAL FRESHWATER RESOURCES PER CAPITA</b> CUBIC METERS; 2005
760	59	39	1,830	447	26	0	23	21	51	105	29	8,595
704	65	100	280	732	678	7	19	18	52	141	10	3,017
1,559	-55	49	6,965	2,122	7,551	12	9	22	70	121	11	966
2,725	86	87	13,969	5,498	43,559	1	9	26	2	116	38	3,805
1,203	31	52	..	1,000	1,173	1	10	20	0	98	43	9,086
2,434	46	99	6,840	4,163	5,166	3	9	29	17	108	33	2,713
1,985	56	84	4,387	2,726	2,835	2	7	20	1	97	38	8,485
4,460	25	100	475	9,513	14,385	39	3	39	1	105	34	1,290
3,835	31	24	6,722	959	10,311	1	3	14	1	102	54	9,435
626	54	39	570	1,336	6,127	3	13	12	44	101	40	12,985
2,608	61	44	12,505	7,950	9,005	21	4	51	5	112	22	595
3,651	-116	93	43,910	14,204	171,855	16	7	8	16	103	1	4,978
546	47	91	847	424	561	2	33	7	76	98	5	9,041
1,988	53	100	2,330	2,375	17,921	2	4	18	2	117	47	7,259
2,666	43	91	12,279	1,772	12,457	1	5	30	0	112	33	4,569
1,328	43	64	..	699	530	0	13	22	9	109	36	2,655
862	98	86	1,577	1,075	2,980	1	17	56	14	116	10	258
..	..	..	..	..	..	0	13	..	..	..	..	..
2,403	14	70	85,989	19,599	46,060	71	5	40	1	107	30	1,404
1,778	27	51	267	10,781	16,032	5	11	40	31	123	28	1,955
4,460	-81	67	5,702	85,542	1,801,601	1,541	6	7	4	111	49	30,135
..	..	..	..	4,057	3,614	5	13	..	..	..	..	..
3,407	65	87	18,517	3,659	9,326	0	4	29	13	..	40	2,339
3,591	52	100	9,007	1,228	3,245	3	3	9	1	109	63	9,348
516	55	..	..	616	1,117	6	24	7	68	146	3	10,122
1,151	71	42	156,853	8,697	8,939	383	13	31	20	104	13	3,150
3,265	-274	81	..	2,529	8,670	10	20	5	79	131	9	290
2,958	46	97	28,847	22,001	223,980	39	10	56	7	115	17	1,128
2,088	-5	87	..	4,014	18,007	72	28	11	85	105	8	623



# THE WORK PROGRAM

The World Bank is actively engaged in the infrastructure sector of 29 countries in Europe and Central Asia.

The World Bank assists countries by investing directly in sustainable development projects of member countries and providing technical and advisory services. In addition, the World Bank is the implementing agency for the Global Environmental Facility (GEF) and the Carbon Fund (CF) projects, and has established special trust fund financing arrangements for Kosovo.

## LENDING OPERATIONS

**PROJECTS UNDER IMPLEMENTATION.** The World Bank has committed approximately US\$46 billion through 870 projects in the Europe and Central Asia Region over the past decade. During that period from fiscal years 1997 through 2007, 411 of these projects totaling close to US\$19 billion in net commitments were directed to the sustainable development sector.<sup>5</sup>

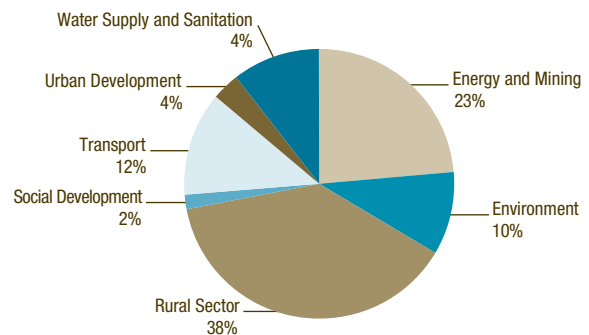
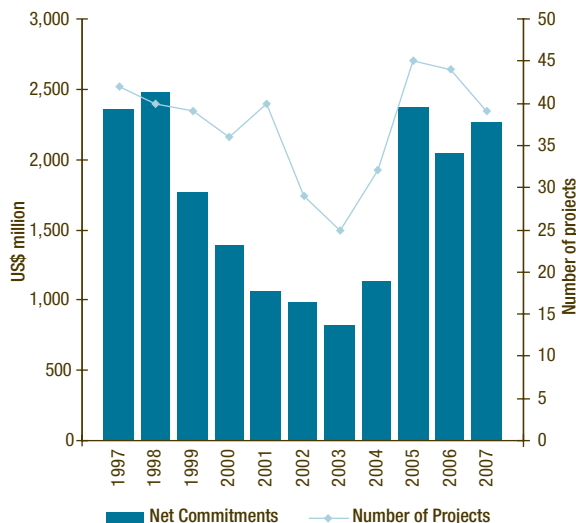
Over the last fiscal year (July 1, 2006 – June 30, 2007), Sustainable Development Department committed over US\$2 billion through 39 projects in the Region.

Presently, there are 216 sustainable development projects (counting activities with IBRD additional financing and co-financing by GEF) under implementation with a total portfolio value of approximately US\$11.2 billion.<sup>6</sup>

### PROPORTION OF INVESTMENT LENDING BY THEMATIC GROUPING

#### Loan Commitments

**TRENDS IN COMMITMENTS AND NUMBER OF PROJECTS UNDER IMPLEMENTATION IN THE SUSTAINABLE DEVELOPMENT DEPARTMENT OF ECA**



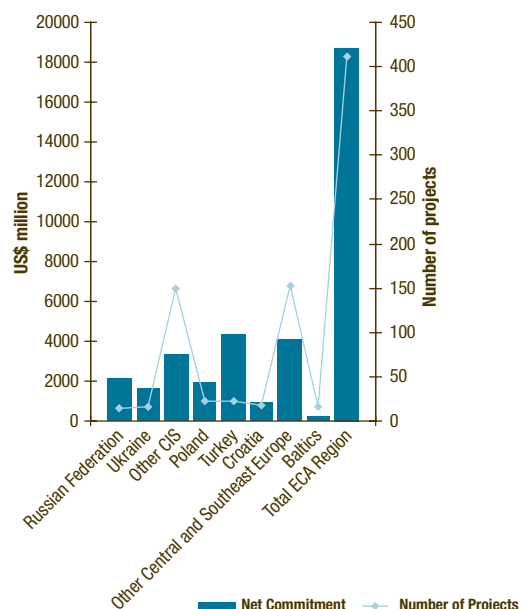
5. Investment figures represent World Bank Board approvals starting from FY97 which began on July 1, 1996 through FY07 which ended on June 30, 2007.  
 6. Investment lending which includes financing sources from IBRD, IDA and GEF.

While the early 1990s showed an overall greater level of funding devoted to Central and Eastern European countries, the recent past shows a shift towards financing of projects in the Commonwealth of Independent States (CIS) countries and Turkey. This is a reflection of the evolving needs of the borrowers.

**CREDITWORTHINESS OF CLIENT COUNTRIES**

GRADUATE	IBRD ONLY	IBRD/IDA BLEND	IDA ONLY
Czech Republic	Belarus	Albania	Armenia
Estonia	Bulgaria	Azerbaijan	Georgia
Lithuania	Croatia	Bosnia & Herzegovina	Kosovo
Slovenia	Kazakhstan	Montenegro	Kyrgyz Republic
Hungary	FYR Macedonia	Serbia	Moldova
Latvia	Poland	Uzbekistan	Tajikistan
	Romania		
	Russian Federation		
	Slovak Republic		
	Turkey		
	Turkmenistan		
	Ukraine		

**SUSTAINABLE DEVELOPMENT DEPARTMENT—TOTAL COMMITMENT VALUES BY COUNTRY (FY97–FY07)<sup>7</sup>**



**PROJECTS UNDER PREPARATION.** Over the next three years, agriculture and rural sector development, environmental protection, energy sector development including alternative energy sources, multimodal transport including road safety improvements, and water quality and sanitation projects will likely receive an increasing share of the sustainable development loans and grants to the countries of the Europe and Central Asia Region. Specifically, the Bank is presently involved in the preparation of 85 projects (counting projects with GEF and Carbon Fund financing) with a total estimated portfolio value of approximately US\$5.7 billion.

It is expected that the bulk of these projects will reach the implementation stage during the next two years. In addition, a number of new projects are in the identification stage. The emphasis in these projects is expected to be similar to the projects under implementation, with a noticeable shift towards assistance with public policy that guides private infrastructure financing, facilitating energy trade and cross-border transportation services, energy conservation, water quality, and the use of alternative fuels. An increasing trend is the development of projects with a multi-sector focus which include investments in several communal services, such as water, heat and power, under the same project. Also expected is the increased use of more flexible lending instruments that, when requested by clients, will allow for quicker and more efficient scaling up of projects in both size and scope, such as additional financing, repeater projects, etc.

7. CIS (Commonwealth of Independent States) includes twelve countries of the former Soviet Union: Armenia, Azerbaijan, Belarus, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Russian Federation, Tajikistan, Turkmenistan, Ukraine and Uzbekistan.

## NON-LENDING SERVICES

The World Bank provides a variety of non-lending services in the sustainable development sector. These services form a basis for the Bank's policy dialogue with clients and the development of sector strategies, and feed into the formulation and implementation of an effective lending program. Activities are diverse and include the preparation and dissemination of sector reports and strategies, provision of training, technical assistance and consultations, organization of workshops, donor coordination, facilitation of co-financing from multi- and bilateral agencies active in the Region, and promotion of technology as a resource for improved access to relevant sector information.

Economic and sector work completed in FY07 included reports on the following topics: Regional Study on Urban Agglomeration, Urban Policy Note for Albania, Russia Housing Study, South Eastern Europe Generation Investment Study Update which highlights emerging difficulties in the electricity market, Ukraine Green Investment Scheme, which is a unique Bank contribution to Kyoto implementation, and Turkey Energy Strategy which identifies Turkey's emerging power crisis. Notable technical assistance included work on Bulgaria's regional development which supports the Government of Bulgaria's efforts to exploit strategic development opportunities created by EU accession and to develop and operational approach to regional development in order to maximize the absorption and impact of EU Structural Funds.

Electronic version of some of these reports can be found at <http://www.worldbank.org/eca/ecsie> and <http://www.worldbank.org/eca/ecssd>.

## REGIONAL INITIATIVES

The World Bank is in a unique position to promote the exchange of information among sustainable development sector managers in European and Central Asian countries while also drawing on the experience of other regions in the world. Through a number of Regional and sub-Regional initiatives we foster the sharing of experience and the identification and dissemination of best practices across countries that face similar challenges. These initiatives include investment projects, comparative sector reviews, seminars, workshops and study tours for government officials and enterprise managers, knowledge management activities and the facilitation of information flows via enhanced technologies. At present particular emphasis is being directed to regional issues associated with spatial development, climate change and disaster management.

## PROJECTS UNDER IMPLEMENTATION<sup>8</sup>

216 PROJECTS

TOTAL LOAN/CREDIT/GRANT AMOUNT—US\$11.1 BILLION

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
1 Albania	Integrated Water/Ecosystems Management (GEF) (P075156)	3/24/2004	4.9	12/31/2009	A. Rohde
2 Albania	Butrint Global Biodiversity and Heritage Conservation GEF (P085089)	6/29/2007	1.0	9/30/2010	D. Dade
3 Albania	Municipal Water and Wastewater (P041442)	1/28/2003	15.0	12/31/2009	A. Rohde
4 Albania	Power Sector Generation/ Restructuring (P077526)	3/16/2004	25.0	1/31/2008	I. Khalil
5 Albania	Transport (P078949)	2/22/2007	25.0	6/30/2011	R.M. Humphreys
6 Albania	Land Administration & Management (P096263)	2/22/07	34.9	12/31/2011	W. Zakout
7 Albania	Energy Community of South East Europe – APL-2 (P090656)	6/28/2005	27.0	7/31/2009	I. Khalil
8 Albania	Agriculture Services (P054736)	6/14/2001	9.9	12/31/2007	J. Lampietti
9 Albania	Pilot Fishery Development (P069479)	2/28/2002	5.6	9/30/2007	J-F. Stewart
10 Albania	Avian Influenza Control and Human Pandemic Preparedness and Response (P100273)	6/27/2006	5.0	6/30/2009	I. Hackaj
11 Albania	Integrated Coastal Zone Management & Clean-Up (APL #1) (P086807)	6/21/2005	17.5	3/31/2010	K. Van Den Berg
12 Albania	Natural Resources Development (P082375)	6/9/2005	7.0	11/1/2010	D. Dade

8. Data as of June 30, 2007. See Annex 1 for more detailed information about these projects.

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
13 Albania	Natural Resources Development GEF (P089061)	6/9/2005	5.0	11/1/2010	D. Dade
14 Albania	Water Resources Management (P082128)	6/3/2004	15.0	6/30/2009	G. Fantozzi
15 Albania	Community Works 2 (P077297)	6/24/2003	15.0	9/30/2008	R. Srinivasan
16 Armenia	Municipal Water and Wasterwater (P063398)	5/4/2004	23.0	2/28/2009	J. Kamkwala
17 Armenia	Yerevan Water/Waste Water Services (P087641)	2/24/2005	20.0	2/28/2011	J. Kamkwala
18 Armenia	Renewable Energy (P083352)	3/29/2006	5.0	12/31/2010	G. Sargsyan
19 Armenia	Renewable Energy GEF (P090058)	3/29/2006	3.0	12/31/2010	G. Sargsyan
20 Armenia	Urban Heat (P057880)	7/12/2005	15.0	6/30/2010	A. Balabanyan
21 Armenia	Irrigation Development (P055022)	8/30/2001	24.9	3/31/2009	G. Fantozzi
22 Armenia	Irrigation Dam Safety (P064879)	6/24/1999	26.6	12/31/2008	G. Fantozzi
23 Armenia	Irrigation Dam Safety 2 (P088499)	6/10/2004	6.75	3/31/2009	G. Fantozzi
24 Armenia	Avian Influenza Preparedness (P099832)	6/2/2006	6.25	7/31/2009	F. Jungbluth
25 Armenia	Rural Enterprise & Small-Scale Commercial Agriculture Development (P087011)	7/7/2005	20.0	5/31/2010	F. Jungbluth
26 Armenia	Natural Resources Management & Poverty Reduction (P057847)	6/4/2002	8.3	1/31/2009	F. Jungbluth
27 Armenia	Natural Resources Management & Poverty Reduction GEF (P069917)	6/4/2002	5.1	1/31/2009	F. Jungbluth
28 Azerbaijan	Highway (P040716)	6/12/2001	40.0	10/31/2007	O. Le Ber
29 Azerbaijan	IDP Economic Development Support (P089751)	2/15/2005	11.5	12/31/2008	E. Hamilton
30 Azerbaijan	Power Transmission (P083341)	5/17/2005	48.0	12/31/2010	B. Hamso
31 Azerbaijan	Highway II (P094488)	1/17/2006	200.0	2/28/2011	O. Le Ber
32 Azerbaijan	Highly Pathogenic Avian Influenza Preparedness Project (formerly Institution Building Technical Assistance 2) (P066100)	6/18/2002	9.5	3/30/2008	R. Chirag-Zade
33 Azerbaijan	Rural Investment (P076234)	6/3/2004	15.0	3/31/2009	M. Woodward
34 Azerbaijan	Rural Environment (P066199)	6/9/2005	8.0	12/31/2009	A. Kiss

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
35 Azerbaijan	Rural Environment GEF (P077031)	6/9/2005	5.0	12/31/2009	A. Kiss
36 Azerbaijan	Irrigation Distribution System & Management Improvement (P008286)	6/17/2003	35.0	3/31/2010	J. Stoutjesdijk
37 Azerbaijan	Agricultural Development and Credit II (P090887)	6/27/2006	29.2	5/31/2011	F. Jungbluth
38 Azerbaijan	Water Supply (P096213)	6/14/07	230.0	1/31/2012	A. Rohde
39 Azerbaijan	Real Estate Regulation (P0100582)	3/21/07	30.0	2/28/2013	G. Ionita
40 Belarus	Social Infrastructure Retrofitting Project (P044748)	6/5/2001	22.6	12/31/2007	P. Salminen
41 Belarus	Post-Chernobyl Recovery Project (P095115)	4/18/2006	50.0	12/31/2010	P. Salminen
42 Bosnia and Herzegovina	Small-Scale Commercial Agriculture Development (P055434)	3/25/2003	12.0	12/31/2009	J. Lampietti
43 Bosnia and Herzegovina	Forest Development & Conservation (P079161)	6/10/2003	3.74	11/30/2010	J. Mott
44 Bosnia and Herzegovina	Land Registration (P096200)	4/27/2006	15.0	3/31/2011	G. Adlington
45 Bosnia and Herzegovina	Electric Power Reconstruction III (P058521)	6/26/2001	35.0	11/30/2007	A. Armar
46 Bosnia and Herzegovina	Solid Waste Management (P057950)	6/20/2002	18.0	11/30/2009	A. Dasgupta
47 Bosnia and Herzegovina	Solid Waste Management Supplemental (P095382)	6/30/2005	8.0	11/30/2009	A. Dasgupta
48 Bosnia and Herzegovina	Urban Infrastructure & Service Delivery (P083353)	7/8/2004	20.0	12/15/2010	V. Francic
49 Bosnia and Herzegovina	Water Quality Protection GEF (P085112)	6/07/2005	8.9	2/28/2011	A. Dasgupta
50 Bosnia and Herzegovina	Energy Community of South East Europe – APL 3 (P090666)	6/16/2006	36.0	12/31/2010	A. Armar
51 Bosnia and Herzegovina	Avian Flu (P100415)	6/20/2007	5.0	12/31/2010	D. Bontempo
52 Bosnia and Herzegovina	Agriculture/Rural Development (P101213)	6/19/2007	21.0	6/30/2012	C. Shaw
53 Bulgaria	District Heating (P008314)	6/17/2003	34.2	6/30/2008	S. Sarkar
54 Bulgaria	Energy Efficiency GEF (P084831)	3/22/2005	10.0	3/31/2010	I. Dobozi

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
55 Bulgaria	Wetlands Restoration & Pollution Reduction GEF (P068858)	6/13/2002	7.5	3/15/2008	A. Georgieva
56 Bulgaria	Registration & Cadastre (P055021)	6/21/2001	30.0	3/1/2008	A. Georgieva
57 Bulgaria	Lake Pomorie Conservation, Restoration and Sustainable Management GEF (P077800)	2/17/2005	0.9	2/28/2009	A. Georgieva
58 Bulgaria	Trade and Transport Facilitation (TTFSE 2) (P094018)	3/21/07	52.8	6/30/2012	H. Kerali
59 Bulgaria	Road Infrastructure Rehabilitation (P099894)	6/26/2007	121.48	6/30/2011	M. Dali Essekali
60 Croatia	Coastal Cities Pollution Control (P065416)	6/1/2004	47.5	11/30/2008	M. Webster
61 Croatia	Energy Efficiency (GEF) (P071461)	10/7/2003	7.0	6/30/2010	P. Johansen
62 Croatia	Energy Efficiency LIL (P079978)	10/7/2003	5.0	6/30/2010	P. Johansen
63 Croatia	Municipal Environmental Infrastructure (P043444)	6/18/1998	36.3	12/31/2007	S. Gabric
64 Croatia	Rijeka Gateway Project (P043195)	7/8/2003	156.5	12/31/2010	G. Ollivier
65 Croatia	Renewable Energy Restructuring GEF (P071464)	6/23/2005	5.5	3/31/2010	P. Johansen
66 Croatia	District Heating Project (P095389)	6/20/2006	29.8	6/30/2010	S. Sarkar
67 Croatia	Agricultural Acquis Cohesion (P091715)	2/16/2006	30.1	10/31/2010	A. Nacev
68 Croatia	Social & Economic Recovery (P076730)	3/29/2005	45.6	6/30/2009	G. La Cava
69 Croatia	Karst Ecosystem Conservation GEF (P042014)	5/23/2002	5.0	12/31/2007	K. Shepardson
70 Croatia	Trade & Transport Integration (P093767)	11/14/2006	75.3	12/31/2011	G. Ollivier
71 Croatia	Inland Waters Project (P098948)	5/30/2007	133.4	12/31/2012	S. Sarkar
72 Croatia	Real Property Registration & Cadastre (P067149)	8/29/2002	25.7	9/30/2008	V. Stanley
73 Europe and Central Asia	GeoFund 1 (P075046)	11/14/2006	4.5	12/30/2008	H. Schreiber
74 Georgia	Electricity Market Support (P054886)	5/30/2001	27.3	12/31/2008	B. Hamso
75 Georgia	Energy Transit Institution Building (P072394)	3/13/2001	9.6	12/31/2007	J. Melitauri
76 Georgia	Municipal Development II (P077368)	8/1/2002	19.4	12/30/2007	A. Eiweida

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
77 Georgia	Secondary and Local Roads (P086277)	6/24/2004	20.0	10/31/2009	T. Sulukhia
78 Georgia	Infrastructure Pre-investment Facility (P098850)	2/16/2006	5.0	9/30/2009	T. Sulukhia
79 Georgia	Energy Supplemental Project (P088911)	06/24/2004	3.6	12/31/2007	B. Hamsó
80 Georgia	Protected Areas Development GEF (P048791)	5/24/2001	8.7	12/31/2007	D. Kapanadze
81 Georgia	Forests Development (P044800)	8/1/2002	15.7	6/30/2009	A. Kushlin
82 Georgia	Irrigation & Drainage Community Development (P055068)	6/28/2001	27.0	4/30/2008	J. Stoutjesdijk
83 Georgia	Irrigation & Drainage Community Development Additional Financing (P095551)	6/30/2005	13.0	4/30/2008	J. Stoutjesdijk
84 Georgia	Rural Development (P078544)	5/17/2005	10.0	6/30/2010	F. Jungbluth
85 Georgia	Highway Improvement I (P083110)	12/05/2006	19.0	2/28/2011	O. LeBer
86 Georgia	Avian Influenza Control & Human Pandemic Preparedness & Response (P099808)	5/31/2006	7.0	8/31/2009	F. Jungbluth
87 Hungary	Municipal Wastewater (P008497)	9/16/1999	31.6	12/31/2008	S. McMillan
88 Hungary	Nutrient Reduction GEF Project (P074971)	4/18/2006	12.5	12/31/2011	G. Azevedo
89 Kazakhstan	North-South Electricity Transmission Project (P095155)	10/27/2005	100.0	12/31/2009	I. Dobozi
90 Kazakhstan	Electricity Transmission Rehabilitation (P065414)	12/21/1999	140.0	6/15/2009	I. Dobozi
91 Kazakhstan	Agricultural Post-Privatization Assistance 2 (APL Phase 2) (P058015)	12/31/2004	35.0	12/31/2009	E. Betubiza
92 Kazakhstan	Nura River Clean-Up (P059803)	5/8/2003	40.3	9/30/2009	K. Van Den Berg
93 Kazakhstan	Agricultural Competitiveness (P049721)	4/28/2005	24.0	7/30/2010	M. Guadagni
94 Kazakhstan	Forest Protection & Reforestation (P078301)	11/29/2005	30.0	11/30/2012	J. Mott
95 Kazakhstan	Forest Protection & Reforestation GEF (P087485)	11/29/2005	5.0	11/30/2012	J. Mott
96 Kazakhstan	Drylands Management GEF (P071525)	6/19/2003	5.2	3/31/2009	B. Utkelov
97 Kazakhstan	Syr Darya Control & Northern Aral Sea Phase I (P046045)	6/5/2001	64.5	12/31/2008	J. Stoutjesdijk
98 Kazakhstan	Ust-Kamenogorsk Environmental Remediation (P078342)	2/1/2007	24.2	3/30/2013	F. Van Woerden



COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
99 Kazakhstan	Road Transport Restructuring (P008499)	2/9/1999	100.0	12/31/2007	H. Kerali
100 Kosovo	Energy Sector Technical Assistance Project-III (P088865)	3/29/2005	2.5	06/30/2008	H. Dalil Essakali
101 Kosovo	Energy Sector Cleanup and Land Reclamation (P096181)	6/13/2006	5.5	12/31/2010	F. Van Woerden
102 Kosovo	Lignite Power Technical Assistance Project (P097635)	10/12/2006	8.5	12/31/2009	S. Sinclair
103 Kosovo	Avian Flu (P102165)	2/1/2007	3.0	4/30/2010	Ibrahim Hackaj
104 Kyrgyz Republic	Consolidated TA (P069814)	6/22/2000	5.0	12/31/2007	M. Aldayarov
105 Kyrgyz Republic	Power and District Heating (P008519)	5/23/1996	20.0	12/31/2007	R. Sharma
106 Kyrgyz Republic	Rural Water and Sanitation (P036977)	12/4/2001	15.0	10/31/2008	M. Aldayarov
107 Kyrgyz Republic	Small Towns Infrastructure & Capacity Building (P083377)	12/14/2004	15.0	3/31/2010	J. Kamkwala
108 Kyrgyz Republic	Power and District Heating Supplemental Project (P055733)	6/25/1998	15.0	12/31/2007	R. Sharma
109 Kyrgyz Republic	Land & Real Estate Registration (P049719)	6/6/2000	9.4	12/31/2007	J. Mott
110 Kyrgyz Republic	Agribusiness & Marketing (P049724)	12/14/2004	8.1	12/31/2010	E. Betubiza
111 Kyrgyz Republic	Avian Influenza Control & Human Pandemic Preparedness & Response (P099453)	2/9/2006	4.0	12/30/2010	M. Guadagni
112 Kyrgyz Republic	Agriculture Support Services (P040721)	5/7/1998	13.0	6/30/2008	M. Guadagni
113 Kyrgyz Republic	Village Investment (P073973)	12/16/2003	15.1	8/31/2008	K. McLean
114 Kyrgyz Republic	Water Management Improvement (P088671)	3/29/2006	19.0	12/31/2011	J. Stoutjesdijk
115 Kyrgyz Republic	Disaster Hazard Mitigation Project (P083235)	6/15/2004	6.9	3/31/2010	J. Stoutjesdijk
116 Kyrgyz Republic	Disaster Hazard Mitigation Project GEF (P095206)	5/19/2005	1.0	3/31/2010	J. Stoutjesdijk

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
117 Kyrgyz Republic	On-Farm Irrigation (P049723)	6/6/2000	20.0	5/31/2008	J. Stoutjesdijk
118 Kyrgyz Republic	Second Village Investment (P098949)	8/3/2006	15.0	6/30/2011	K. McLean
119 Kyrgyz Republic	On-Farm Irrigation Project 2 (P096409)	6/19/07	16.0	6/30/2013	J. Stoutjesdijk
120 Lithuania	Klaipeda Port (P035776)	5/11/2000	35.4	12/31/2008	M. Audige
121 Lithuania	Vilnius Heat Demand Management (GEF) (P073242)	6/10/2003	6.5	6/30/2008	P. Johansen
122 Macedonia, FYR	Real Estate Cadastre & Registration (P083126)	3/15/2005	14.0	12/31/2009	V. Stanley
123 Macedonia, FYR	Trade and Transport Facilitation in Southeast Europe 2 (P091723)	5/29/2007	20.0	9/30/2011	A. Schliessler
124 Macedonia, FYR	Agriculture Strengthening and Access (P101216)	6/12/2007	20.0	9/30/2011	J. Lampietti
125 Macedonia, FYR	Railways Reform (P083499)	9/15/2005	19.4	10/31/2009	A. Schliessler
126 Macedonia, FYR	Energy Community of Southeast Europe – APL 3 (P082337)	1/10/2006	25.0	3/31/2011	H. Beides
127 Macedonia, FYR	Sustainable Energy (GEF) (P089656)	9/07/2006	5.8	3/31/2007	P. Johansen
128 Montenegro	Environment (P079116)	9/11/2003	7.0	3/31/2008	A. Rohde
129 Montenegro	Sustainable Tourism Development (P093461)	6/12/2007	10.0	9/30/2011	A. Rohde
130 Moldova	Energy II (P040558)	11/25/2003	35.0	4/30/2008	D. Ostojic
131 Moldova	Water and Sanitation (P074469)	6/30/2003	12.0	12/31/2007	T. Ikegami
132 Moldova	Trade and Transport Facilitation in Southeast Europe (P073626)	6/10/2003	7.2	9/30/2007	A. Dumitrescu
133 Moldova	Persistent Organic Pollutants (POPs) Stockpiles Management & Destruction GEF (P090037)	2/9/2006	6.3	5/31/2010	A. Gobjila
134 Moldova	Agricultural Pollution Control GEF (P075995)	2/26/2004	4.9	12/31/2009	C. Shaw
135 Moldova	Avian Influenza Control & Human Pandemic Preparedness & Response (P099841)	6/9/2006	8.0	12/31/2009	A. Gobjila
136 Moldova	Rural Investment & Services (APL #2) (P090673)	3/28/2006	15.0	6/30/2010	P.O. Colleye

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER	
137	Moldova	Renewable Energy from Agricultural Waste (Biomass) GEF (P084688)	6/27/2005	1.0	12/31/2007	A. Gobjila
138	Moldova	Road Sector Program Support (P100929)	3/29/2007	16.0	6/30/2011	A. Schliessler
139	Moldova	Environmental Infrastructre (GEF) (P074139)	5/29/2007	5.0	12/15/2011	T. Ikegami
140	Poland	Krakov Energy Efficiency (P065059)	6/7/2001	15.0	12/31/2007	P. Johansen
141	Poland	Krakov Energy Efficiency GEF (P070246)	10/14/2004	11.0	6/30/2011	P. Johansen
142	Poland	Second Roads Maintenance and Rehabilitation (P088824)	3/29/2005	130.5	12/31/2007	A. Schliessler
143	Poland	Third Roads Maintenance and Rehabilitation (P096214)	6/06/2006	180.2	9/15/2011	A. Schliessler
144	Poland	Szczecin-Swinoujscie Seaway and Port (P008615)	12/12/2000	38.5	6/30/2008	M. Audige
145	Poland	Post-Accession Rural Support (P065270)	1/24/2006	88.8	12/31/2009	J. Pakulski
146	Poland	Road Maintenance & Rehabilitation (P078170)	126.0	3/30/2004	12/31/2008	A. Schliessler
147	Poland	Odra River Flood Basin Protection (P086768)	3/21/07	184.0	11/30/2014	M. Ahmad
148	Romania	Municipal Services (P088252)	7/13/2006	133.7	6/30/2011	S. Sarkar
149	Romania	Electricity Market (P081406)	6/30/2003	82.0	6/30/2008	D. Visa
150	Romania	Energy Efficiency (GEF) (P068062)	9/19/2002	10.0	12/31/2007	V. Atur
151	Romania	Transport Restructuring (P083620)	11/16/2004	225.0	7/31/2009	H. Kerali
152	Romania	Banat & Dobrogea Electricity Distribution Privatization Partial Risk Guarantee (P089568)	12/21/2004	76.7	01/12/2012	K. Nyman
153	Romania	Energy Community of South East Europe – APL (P086694)	1/27/2005	84.3	6/30/2010	K. Nyman
154	Romania	Forest Development (P067367)	12/19/2002	25.0	6/30/2009	P. Dewees
155	Romania	Hazard Risk Mitigation & Emergency Preparedness (P075163)	5/20/2004	150.0	12/31/2009	G. Ionita
156	Romania	Hazard Risk Mitigation & Emergency Preparedness GEF (P081950)	5/20/2004	7.0	12/31/2009	L. Azevedo
157	Romania	Irrigation Rehabilitation & Reform (P043881)	7/31/2003	80.0	3/31/2011	G. Ionita

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
158 Romania	Mine Closure, Environment & Socio-Economic Regeneration (P087807)	12/16/2004	120.0	5/31/2010	M. Woodward
159 Romania	Rural Development (APL #1) (P057960)	3/19/2002	40.0	9/30/2007	K. Shepardson
160 Romania	Modernizing Agricultural Knowledge & Information Systems (P086949)	11/16/2004	50.0	9/30/2010	D. Petrescu
161 Romania	Rural Finance Project (APL #1) (P056891)	3/29/2001	80.0	7/31/2007	P.O. Colleye
162 Romania	Avian Influenza Control and Human Pandemic Preparedness and Response (P100470)	9/8/2006	37.7	12/31/2009	M. Grueninger
163 Romania	Transport Sector Support (P09312)	11/2/2006	180.0	12/31/2008	H. Kerali
164 Russia	Moscow Urban Transport (P046061)	2/6/2001	60.0	6/30/2008	M. Audige
165 Russia	Municipal Heating (P038551)	3/27/2001	85.0	12/31/2007	K. Shankar
166 Russia	Municipal Water and Wastewater (P008832)	12/31/2000	122.5	12/31/2007	K. Shankar
167 Russia	St. Petersburg Economic Development (P069063)	6/1/2003	161.1	8/31/2009	G. Sargsyan
168 Russia	Registration (P093050)	6/13/2006	50.0	5/31/2013	S. Suleymanov
169 Russia	Cadastre Development (P078420)	7/5/2005	100.0	6/30/2010	W. Zakout
170 Russia	Hydrometeorological System Modernization (P082239)	3/17/2005	80.0	9/30/2010	V. Tsirkunov
171 Russia	Environmental Management Project (P008821)	11/8/1994	110.0	12/31/2007	V. Tsirkunov
172 Russia	Sustainable Forestry Pilot Project (P053830)	5/23/2000	60.0	9/30/2007	A. Kushlin
173 Serbia	Danube River Enterprise Pollution Reduction GEF (P084604)	5/12/2005	9.0	3/31/2010	T. Arin
174 Serbia	Irrigation & Drainage Rehabilitation (P087964)	7/12/2005	25.0	5/31/2011	U. El-Hanbali
175 Serbia	Real Estate Cadastre & Registration (P078311)	5/25/2004	30.0	10/31/2010	G. Adlington
176 Serbia	Serbia Energy Efficiency (P075343)	3/16/2004	21.0	4/30/2010	V. Atur
177 Serbia o	Serbia Transport Rehabilitation (P075207)	5/25/2004	55.0	6/30/2011	R.-M. Humphreys
178 Serbia	Transitional Agricultural Reform Project (P094212)	6/20/2007	17.0	12/31/2011	N. Aleksandar
179 Serbia	Transitional Agricultural Reform Project (P093545) (GEF)	6/20/2007	4.5	12/31/2011	A. Nacev

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
180 Serbia	Energy Community of South East Europe – APL 2 - Serbia (P088867)	6/30/2005	21.0	2/28/2010	V. Atur
181 Tajikistan	Dushanbe Water Supply (P057883)	6/18/2002	17.0	6/30/2008	J. Kamkwalala
182 Tajikistan	Pamir Private Power (P075256)	6/27/2002	10.0	12/31/2007	R. Sharma
183 Tajikistan	Energy Loss Reduction (P089244)	6/30/2005	18.0	6/30/2012	R. Sharma
184 Tajikistan	Municipal Infrastructure (P079027)	1/19/2006	15.0	8/31/2011	J. Kamkwalala
185 Tajikistan	Ferghana Valley Water Resources Management (P084035)	7/26/2005	13.0	5/31/2011	U. El-Hanbali
186 Tajikistan	Land Registration & Cadastre System for Sustainable Agriculture (P089566)	4/21/2005	10.0	9/30/2010	J. Mott
187 Tajikistan	Community Agriculture & Watershed Management (P077454)	6/15/2004	10.8	4/30/2011	J. Mott
188 Tajikistan	Community Agriculture & Watershed Management GEF (P081159)	6/15/2004	4.5	4/30/2011	J. Mott
189 Tajikistan	Rural Infrastructure Rehabilitation (P058898)	6/22/2000	20.0	8/31/2007	U. El-Hanbali
190 Tajikistan	Avian Influenza and Human Pandemic Preparedness and Response (P100451)	6/29/2006	5.0	12/1/2009	B. Yatimov
191 Tajikistan	Cotton Sector Recovery (P098889)	5/30/2007	15.0	3/31/2013	B. Shamsiev
192 Tajikistan	Dashtidzhum Biodiversity Conservation GEF (P082599)	8/2/2004	1.0	11/30/2007	B. Yatimov
193 Turkey	National Transmission Grid (P048852)	6/11/1998	249.2	12/31/2007	S. Shukla
194 Turkey	Renewable Energy (P072480)	3/25/2004	201.0	6/30/2010	G. Ozdora
195 Turkey	Municipal Services (P081880)	6/23/2005	275.0	6/30/2010	S. Manghee
196 Turkey	Railways Restructuring (P077328)	6/09/2005	184.7	9/30/2009	M. Lawrence
197 Turkey	Energy Community of South East Europe – APL 2 (P094176)	4/01/2005	66.0	12/31/2010	S. Shukla
198 Turkey	Energy Community of South East Europe – APL 3 (P096400)	3/23/2006	151.7	6/30/2011	S. Shukla
199 Turkey	Electricity Generation Rehabilitation and Restructuring (P085561)	6/06/2006	336.0	12/31/2011	S. Shukla
200 Turkey	Gas Sector Development (P093765)	11/29/2005	325.0	12/31/2012	S. Shukla

COUNTRY	PROJECT	BOARD APPROVAL DATE	LOAN/CREDIT/GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
201 Turkey	Biodiversity & Natural Resource Management GEF (P044175)	6/13/2000	8.2	12/31/2007	P. Dewees
202 Turkey	Agricultural Reform Implementation (P070286)	7/12/2001	600.0	12/31/2008	H. Kray
203 Turkey	Anatolia Watershed Rehabilitation (P070950)	6/1/2004	15.7	6/30/2012	P. Dewees
204 Turkey	Anatolia Watershed Rehabilitation GEF (P075094)	6/1/2004	7.0	6/30/2012	P. Dewees
205 Turkey	Seismic Risk Mitigation (P078359)	5/26/2005	400.0	9/30/2010	W. Zakout
206 Turkey	Avian Influenza & Human Pandemic Preparedness & Response (P096262)	4/24/2006	34.4	11/30/2010	H. Agah
207 Turkey	Electricity Distribution Rehabilitation (P096801)	4/19/2007	269.4	12/31/2012	S. Shukla
208 Turkey	Istanbul Municipal Infrastructure (P100383)	6/28/2007	322.1	12/31/2011	S. Manghee
209 Ukraine	Lviv Water/Waste Water (P035786)	6/6/2001	24.3	12/31/2007	T.Ikegami
210 Ukraine	Hydropower Rehabilitation (P083702)	6/21/2005	106.0	6/30/2012	D. Ostojic
211 Ukraine	Rural Land Titling & Cadastre Development (P035777)	6/24/2003	195.1	6/30/2012	G. Adlington
212 Uzbekistan	Bukhara/ Samarkand Water Supply (P049621)	3/19/2002	40.0	6/30/2009	Y. Katakura
213 Uzbekistan	Rural Water Supply and Sanitation (P009121)	8/21/1997	73.3	12/31/2007	Y. Katakura
214 Uzbekistan	Drainage, Irrigation & Wetlands Improvement - Phase 1 (P009127)	6/19/2003	61.3	6/30/2010	M. Wasiq
215 Uzbekistan	Rural Enterprise Support (P046043)	12/20/2001	36.1	12/31/2007	M. Guadagni
216 World	International Assessment of Agricultural Science & Technology for Development GEF (P090963)	3/29/2006	3.0	12/31/2007	P. Jamsen

\*Carbon Fund (CF) projects under implementation are not listed. For information on these projects, see CF website: <http://carbonfinance.org>

APL—Adjustable Program Loan

GEF—Global Environment Facility

LIL—Learning and Innovation Loan

LIC—Learning and Innovation Credit

CF—Carbon Fund

FY—fiscal year. Example: FY08 covers July 1, 2007 to June 30, 2008

## PROJECTS UNDER PREPARATION<sup>9</sup>

85 PROJECTS (FY07-FY09)

PROPOSED LOAN/CREDIT/GRANT AMOUNT - US\$5.7 BILLION

COUNTRY	PROJECT	BOARD APPROVAL	LOAN/CREDIT/GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
1 Albania	Energy Community of South East Europe APL 5 (P101806)	4/25/2008	20.0	D. Papatanas
2 Albania	Secondary and Local Roads (P107833)	6/5/2008	15.0	M. Humphreys
3 Armenia	GeoFund II GEF (P094207)	2/17/2008	6.0	H. Schreiber
4 Armenia	Traffic Management and Safety (P100665)	4/7/2008	10.0	M. Lawrence
5 Armenia	Railways Restructuring (P104433)	9/29/2008	10.0	M. Lawrence
6 Armenia	Irrigation Development Additional Financing (P105171)	7/31/2007	5.0	G. Fantozzi
7 Azerbaijan	Third Highway (P094488)	04/29/2008	150.0	O. Le Ber
8 Azerbaijan	Fourth Highway (P100668)	12/18/2008	150.0	O. Le Ber
9 Azerbaijan	Rail Trade and Transport Facilitation (P083108)	2/5/2008	200.0	G. Ollivier
10 Azerbaijan	Power Transmission PCF (P093483)	11/15/2007	8.0	B. Hamso
11 Azerbaijan	Flared Gas Utilization from Guneshli Field (P092817)	10/2/2007	37.0	F. Gerner
12 Azerbaijan	Baku Urban Transport Project (P103270)	7/28/2009	50.0	O. Le Ber
13 Azerbaijan	Apsheron Rehabilitation Project (P104985)	6/12/2008	200.0	A. Dasgupta
14 Azerbaijan	IDP Economic Development Support Project (P107613)	1/8/2008	10.0	E. Hamilton
15 Belarus	Integrated Water Supply and Natural Hazard Mitigation Project (P101190)	1/15/2008	50.0	K. Shankar
16 Belarus	Social Infrastructure Retrofitting Project Additional Financing (P106719)	11/15/2007	15.0	P. Salminen
17 Bosnia and Herzegovina	Forest and Mountain Protected Area GEF (P078094)	11/29/2007	3.4	D. Bontempo
18 Bosnia and Herzegovina	Road Infrastructure and Safety Project (P100792)	1/10/2008	25.0	J. Bure
19 Bulgaria	Municipal Infrastructure Development (P099895)	3/27/2008	105.9	S. Sarkar

9. Data as of June 30, 2007. See Annex 1 for more detailed information about these projects.

COUNTRY	PROJECT	BOARD APPROVAL	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
20 Bulgaria	Bulgaria Regional Development (P078384)	8/28/2008	50.0	M. Clark
21 Croatia	Agricultural Pollution Control GEF (P100639)	11/06/2007	5.0	A. Nacev
22 Croatia	Rijeka Gateway II (P102365)	4/30/2008	100.0	G. Ollivier
23 Croatia	Coastal Cities 2 (P102732)	7/31/2008	70.0	M. Webster
24 Europe and Central Asia	Bosnia/Croatia Integrated Ecosystem Management of Neretva and Trebisnjica River Basins GEF (P084608)	11/20/2008	8.0	U. El-Hanbali
25 Central Asia	Tien Shan Biodiversity (P104642)	3/27/2008	6.0	M. Guadagni
26 Central Asia	Tien Shan Biodiversity (P104670) (GEF)	3/27/2008	4.0	M. Guadagni
27 Georgia	East-West Highway Improvement - Phase 2 (P094044)	11/27/2007	35.0	O. Le Ber
28 Georgia	Khudoni Hydropower (P094377)	7/23/2009	60.0	B. Hamso
29 Georgia	Hydro Rehabilitation (P101625)	8/9/2007	3.0	J. Melitauri
30 Kazakhstan	Fisheries Management Innovation (P083976)	6/2/2008	15.0	W. Sutton
31 Kazakhstan	Irrigated Ecosystem Management GEF (P099053)	3/27/08	6.0	J. Stoutjesdijk
32 Kazakhstan	Irrigation & Drainage II (P086592)	12/20/2007	155.0	J. Stoutjesdijk
33 Kazakhstan	Syr Darya Control and Northern Aral Sea Phase II (P093825)	10/21/2008	55.0	J. Stoutjesdijk
34 Kazakhstan	South-West Corridor Rehabilitation Project (P099270)	6/30/2008	150.0	H. Kerali
35 Kazakhstan	Territorial Development Project (JERP) (P102772)	11/15/2007	55.0	Y. Katakura
36 Kosovo	Real Estate Cadastre and Registration (P101214)	1/16/2009	7.0	C. Shaw
37 Kyrgyz Republic	Agricultural Investments and Services Project (P096993)	12/04/2007	10.0	M. Guadagni
38 Kyrgyz Republic	Tien Shan Biodiversity (P102403)	7/30/2008	0.3	M. Guadagni
39 Kyrgyz Republic	Bishkek and Osh Urban Infrastructure (P104994)	12/18/2007	15.0	J. Kamkwala
40 Kyrgyz Republic	National Road Rehabilitation (Osh-Isfana) (P107608)	2/19/2009	20.0	H. Kerali
41 Macedonia, FYR	Energy Infrastructure Improvement (P096217)	3/24/2009	30.0	H. Beides



COUNTRY	PROJECT	BOARD APPROVAL	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
42 Macedonia, FYR	Municipal Services Improvement (P096481)	7/25/2008	25.0	C. Kessides
43 Macedonia, FYR	Secondary and Local Roads (P107840)	3/17/2009	0.0	A. Schliessler
44 Moldova	Hazard Mitigation in Rural Areas (P096260)	6/8/2009	10.0	C. Shaw
45 Moldova	National Water Facility (P107612)	5/12/2008	16.0	T. Ikegami
46 Montenegro	Energy Community of South East Europe – APL 3 (P106899)	7/6/2007	9.0	H. Beides
47 Montenegro	Tara and Lim River Basin Watershed Management (P099749)	7/15/2008	5.0	K. Kiss
48 Montenegro	Land Administration (P106906)	6/19/2008	10.0	G. Adlington
49 Montenegro	Agriculture Reform (P107473)	11/10/2008	15.0	J. Lampietti
50 Montenegro	Energy Efficiency Project (Additional Financing) (P107992)	5/4/2009	10.0	H. Beides
51 Poland	Walbrzych Fuel Switch (PCF) (P078251)	7/2/07	2.4	H. Schreiber
52 Poland	Transport Infrastructure Rehabilitation (P102731)	11/29/2007	135.1	R. Czapski
53 Romania	Romania Environment Management (P093775)	10/23/2007	68.0	K. Shepardson
54 Romania	Romania Environment Management GEF (P099528)	10/23/2007	5.5	K. Shepardson
55 Romania	Farm Restructuring (P100638)	10/23/2007	65.0	H. Kray
56 Romania	Energy Community Program (P100957)	7/22/2008	150.0	K. Nyman
57 Romania	Regional and Rural Development (P101204)	6/6/2008	50.0	K. McLean
58 Romania	Electricity Privatization Generation Guarantee (P100353)	3/19/2009	120.0	K. Nyman
59 Russia	Housing and Communal Service Reform Program (DPL) (P079032)	9/28/2007	200.0	G. Sargsyan
60 Russia	Renewable Energy (GEF) (P079033)	3/14/2008	10.0	H. Schreiber
61 Russia	Carbon Finance Project 1 Danilovsk Gas Flaring (P095812)	9/28/2007	6.0	H. Schreiber
62 Russia	Carbon Finance Project 2: Uljanovsk Landfill Gas Reduction Project (P101994)	9/28/2007	3.0	H. Schreiber
63 Russia	Microfinance Infrastructure Development Project (P100563)	3/17/2008	50.0	S. Suleymanov
64 Russia	Fire Management in High conservation-Value Forests of the Amur-Sikhote-Alin Eco Region GEF (P068386)	12/13/2007	8.6	A. Kushlin
65 Russia	Special Economic Zones Project (P092213)	5/30/2008	50.0	G. Sargsyan

COUNTRY	PROJECT	BOARD APPROVAL	LOAN/CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER	
66	Russia	Carbon Finance 4: Rosneft Gas Flaring Reduction Project (P102324)	12/21/2007	150.0	H. Schreiber
67	Russia	Electricity Generation Guarantee (P102726)	12/28/2007	500.0	G. Sargsyan
68	Russia	Environmental Liabilities (P108002)	6/25/2009	25.0	V. Tsirkunov
69	Serbia	Serbian Railway Reform (P096592)	4/30/2008	50.0	M. Humphreys
70	South Eastern Europe and Balkans	Albania/Montenegro Lake Skhoder Integrated Ecosystem Management GEF (P084605)	1/8/2008	5.0	A. Kiss
71	Tajikistan	Pamir Emergency (P105727)	6/10/2008	4.0	N. Nikolov
72	Turkey	Hydroelectric Efficiency Improvement (P093316)	10/24/2008	150.0	S. Shukla
73	Turkey	National Disaster Preparedness (P099713)	3/20/2008	350.0	W. Zakout
74	Turkey	Environment and Natural Resources (P104530)	3/3/2008	240.0	P. DeWees
75	Turkey	Cadastre Modernization Project (P106284)	5/22/2008	200.0	W. Zakout
76	Ukraine	Power Transmission Project in Support of the Energy Sector Reform & Development Program (P096207)	8/2/2007	200.0	D. Ostojic
77	Ukraine	Roads and Safety Improvement Project (P100580)	5/27/2008	400.0	M. Audige
78	Ukraine	Urban Infrastructure (P095337)	8/28/2007	140.0	S. Manghee
79	Ukraine	Odessa Wastewater Nutrient Reduction Project GEF (P097763)	5/6/2008	4.6	T. Ikegami
80	Ukraine	Ukraine Methyl Bromide Phase-Out (P085138)	11/30/2007	5.1	V. Tsirkunov
81	Ukraine	Alchevsk Steel Mill Revamping and Modernization (P101615)	7/27/2007	7.5	G. Peszko
82	Ukraine	Dniester Hydropower (P101832)	3/20/2008	250.0	D. Ostojic
83	Ukraine	Urban Infrastructure 2 (P101874)	9/30/2008	250.0	S. Manghee
84	Uzbekistan	Bukhara and Samarkand Solid Waste Management Project (P095263)	6/20/2008	20.0	J. Bernstein
85	Uzbekistan	Tashkent Composting of Municipal Solid Waste Danish Carbon Fund (P096806)	9/14/2007	5.0	J. Bernstein

GEF – Global Environment Facility

PCF – Prototype Carbon Fund

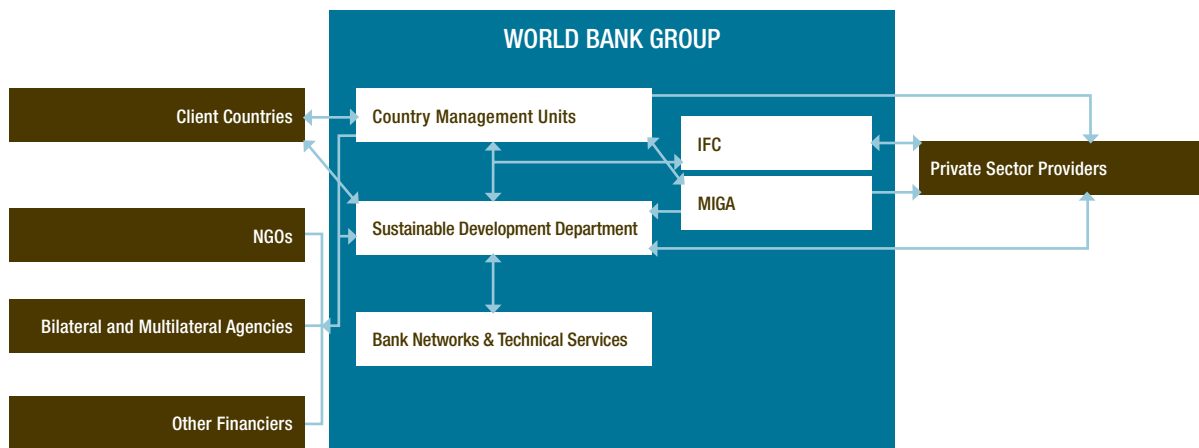
FY – fiscal year. Example: FY07 covers July 1, 2006 to June 30, 2007

## HOW WE WORK

### PROACTIVE PARTNERSHIP<sup>10</sup>

The members of the World Bank Group work closely with each other and with outside partners to address the developmental issues in our client countries. The working relationships are structured to enable us to:

- a. Focus on our client countries' specific requirements and demand for our services;
- b. Develop partnership with interested parties including private infrastructure companies, financiers and NGOs;
- c. Combine the Bank Group instruments for maximum effectiveness.



10. This chart is a graphic depiction of how the ECA Sustainable Development Department interacts with the Bank Group and external partners. It is not a reflection of the complete operations of the Bank Group or any component thereof.

## THE BANK'S ORGANIZATION

The World Bank strives to be a client-focused institution capable of delivering high quality products and services to the developing countries. A Regional vice presidency has an overall responsibility for the Bank's work in each corresponding Region. However, within each Regional vice presidency, a number of country units take charge of designing the Bank's partnership and/or assistance strategy in the country, while larger sector units house the technical expertise and implement the strategy through specific projects.

Within the ECA Region, there are eight country units in charge of the Bank's work in 29 countries of the Region. These units focus on designing country strategy and each is headed by a Director and staffed with a relatively small group of specialists. The responsibility for implementation of the strategy and the underlying activities is with the corresponding sector unit. The Sustainable Development Department is responsible for managing the activities in social development, agriculture and rural development, urban development and municipal services, land administration and management, energy, environment, telecommunications, water and sanitation, transportation, and disaster mitigation. It is managed by a team consisting of a Director and six Sector Managers. The members of the management team are involved in the entire work program; however, each Sector Manager has a primary responsibility for a specific sub-sector and serves as coordinator for activities in a specific group of countries.

The sustainable development work program in each country is managed by several team leaders; the team leader and his/her team are ultimately responsible for all aspects of delivering the cluster of activities included in the work program for this particular country. The team leader draws on expertise from other specialists in the department, other sectors in the ECA Region, and other parts of the Bank to form the most qualified team and to deliver successful programs to the client countries.

To facilitate this sharing of expertise and knowledge, the Bank has established professional networks that link Bank-wide communities of staff working in the same field across organizational boundaries and with external partners. The networks are in the areas of (i) Human Development, (ii) Poverty Reduction and Economic Management, (iii) Financial Services and Private Sector Development, and (iv) Sustainable Development.

The Sustainable Development Network was formed in August 2006, when the Infrastructure and Environmentally and Socially Sustainable Development networks were combined. The purpose of this merger was to ensure that the Bank strengthens its focus on sustainability as it increases investment in infrastructure. The majority of the Sustainable Development Department's activities fall within the Sustainable Development Network; however, knowledge sharing and cross-support occurs across units and networks.

As more possibilities open for foreign private investment in the water, sanitation, transport, and other sectors, partnerships are developing with the International Finance Corporation (IFC) and the Multilateral Investment Guarantee Agency (MIGA).

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# ANNEX 1. MORE INFORMATION ABOUT THE WORK PROGRAM

## PROJECTS UNDER IMPLEMENTATION<sup>1</sup>

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
1 Albania	<b>Integrated Water/ Ecosystems Management (GEF) (P075156)</b>	The project involves a two-tier approach: (i) a short-term priority investment program aimed at urgent rehabilitation works and interventions aimed at improving the basic water services (quality and quantity), avoiding the collapse of the system, and reducing operation costs; and (ii) technical support for basic improvement in the operation of the water companies that will focus in the very short-term on urgent repairs to the systems, and continue in parallel with a medium term program that will support sector reforms.	3/24/2004	4.9	12/31/2009	A. Rohde
2 Albania	<b>Butrint Global Biodiversity and Heritage Conservation GEF (P085089)</b>	The proposed GEF project aims to connect biodiversity conservation and sustainable ecosystem management with conservation of world heritage in the Butrint wetland complex and to mobilize donors support for long term financing of the Park complex. The project will foster and strengthen the appreciation and protection of coastal wetlands—rich in globally significant biodiversity species and the archaeological remains of the UNESCO World Heritage Site. The unique combination of pristine nature and historical assets is an essential aspect of the local and national economy. The project will serve as a vehicle for developing and implementing of a long term site and habitat management strategy	1.0	1.0	9/30/2010	D. Dade
3 Albania	<b>Municipal Water and Wastewater (P041442)</b>	The project will rehabilitate and upgrade water and sanitation systems in Durres, Fier, Lezhe and Saranda, and introduce management controls to strengthen local water and sewerage networks.	1/28/2003	15.0	12/31/2009	A. Rohde
4 Albania	<b>Power Sector Generation/ Restructuring (P077526)</b>	The objective of the project is to rehabilitate and strengthen the power transmission and distribution systems.	3/16/2004	25.0	1/31/2008	I. Khalil

1. Prototype Carbon Fund (PCF) projects under implementation are not listed. For information on these projects, please visit the PCF website: <http://prototypecarbonfund.org>

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
5 Albania	Transport (P078949)	The project will improve regional integration through construction and rehabilitation of critical sections of the national road network; and improve the urban environment through rehabilitation of select urban roads in Tirana and other municipalities	2/22/2007	25.0	6/30/2011	R.M. Humphreys
6 Albania	Land Administration & Management (P096263)	The overall objectives of the project is to facilitate the development of real estate markets through improving land and property tenure security, strengthening local government capacity in land use planning and development control, and support selected local government in implementing annual property tax system. The project could include the following components: (i) improve service delivery of the Immoveable Property Rights Registration Agency; (ii) completion of the real estate cadastre in urban and rural areas; (iii) strengthen local government in land use planning and development control, and implementation of property tax system; and (iv) financing of urban infrastructure in selected local governments that are committed to reform	2/22/07	34.9	12/31/2011	W. Zakout
7 Albania	Energy Community of South East Europe— APL-2 (P090656)	The Second Energy Community of South East Europe (APL) Program Project aims to provide investment support and technical assistance for Albania. The objective of the investment is to extend the lifetime and improve the quality, reliability, safety and efficiency of the bulk power transmission system by replacing ageing existing facilities with new ones. The technical assistance would serve to facilitate project implementation, strengthen the Transmission System Operator (TSO), and improve both the tariff structure and the procurement procedures applicable to electricity imports. The project comprises two components: 1) replacement of high-voltage equipment in six transmission substations, and control and protection systems in six transmission substations; and 2) technical assistance for: strengthening of the TSO; procurement activities and supervision of project implementation; an electricity tariff study; and improving procurement procedures for importing electricity.	6/28/2005	27.0	7/31/2009	I. Khalil
8 Albania	Agriculture Services (P054736)	The project aims to create an environment conducive for rural income growth by addressing key constraints faced by Albania's emerging small-holder farmers in agricultural production, trade, and the functioning of land markets. It will pursue these objectives by: (i) improving access of smallholder farmers to quality seeds through an improved seed regulatory framework, an enhanced role of the private seed sector, and the strengthening of public seed related training and research; (ii) supporting the establishment of a functioning land market through improved land registration and pilot initiatives for land consolidation; (iii) improving participation of smallholder farmers in market activities through the development of selected market infrastructure and active demonstration and facilitation of market linkages; and (iv) improving access of smallholder farmers to adapted technologies and increasing opportunities for diversified production, processing and marketing through community based technology pilots.	6/14/2001	9.9	12/31/2007	J. Lampietti

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
9 Albania	<b>Pilot Fishery Development (P069479)</b>	The main objectives of the project are to: (a) improve the operation and management of fishing ports through rehabilitation and the introduction of community-based fishermen's associations (to be called Fisheries Management Organizations, or FMOs); (b) introduce an effective institutional framework for community-driven co-management of marine resources by involving FMOs and strengthening the public sector's capacity; and (c) restore the country's previous capacity in aquaculture, and explore the potential for further development of aquaculture, particularly for high value species.	2/28/2002	5.6	9/30/2007	J-F. Stewart
10 Albania	<b>Avian Influenza Control and Human Pandemic Preparedness and Response (P100273)</b>	The project development objective is to strengthen the country's capacity to prevent the spread of avian influenza among poultry, to prevent the transmission of avian influenza from birds to other animals and humans, and to prepare for a potential pandemic of avian influenza transmissible between humans.	6/27/2006	5.0	6/30/2009	I. Hackaj
11 Albania	<b>Integrated Coastal Zone Management &amp; Clean—Up (APL #1) (P086807)</b>	The project objective is to set-up and initiate an integrated coastal zone management approach to reduce coastal degradation through: (i) enhancing regulatory policy and governance of the coastal zone, land use and regional planning, and institutional capacity; (ii) initiating targeted municipal and community investments in the southern coast to improve environmental conditions, enhance cultural resources and encourage community support for sustainable coastal zone management; and (iii) reducing soil and groundwater contamination in the former chemical plant at Porto Romano.	6/21/2005	17.5	3/31/2010	K. Van Den Berg
12 Albania	<b>Natural Resources Development (P082375)</b>	The main objective is to establish or maintain sustainable, community-based natural resource management in about 218 communes in upland and mountainous erosion-prone lands. This will lead to enhanced productivity and incomes derived from sustainable resource management, reduced soil degradation, improved water management, conservation of biodiversity, and strengthened public sector management of these resources.	6/9/2005	7.0	11/1/2010	D. Dade
13 Albania	<b>Natural Resources Development GEF (P089061)</b>	The project global environmental objective is to reverse severe degradation of upland and mountainous erosion-prone lands, and sediment runoff to the Adriatic Sea, through rehabilitating and sustainably managing natural resources, including globally significant biodiversity.	6/9/2005	5.0	11/1/2010	D. Dade
14 Albania	<b>Water Resources Management (P082128)</b>	The primary objectives of the project are to: (a) increase agricultural production through the provision of reliable irrigation services, (b) increase the financial viability of irrigation and drainage schemes through institutional strengthening, and (c) reduce the risk of dam failures and floods through infrastructure repairs. In addition, the project aims at achieving the interim (output) objective of contributing to the first step towards the development of comprehensive water resource management.	6/3/2004	15.0	6/30/2009	G. Fantozzi

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
15 Albania	Community Works 2 (P077297)	The project objective is to alleviate local bottlenecks hindering development (including infrastructure and services) through processes of participatory local development as a result of (a) improving access to quality social and economic infrastructure and social services through sustainable micro-projects, and (b) promoting institutional development at the local level.	6/24/2003	15.0	9/30/2008	R. Srinivasan
16 Armenia	Municipal Water and Wastewater (P063398)	The objective of the project is to improve water and wastewater services, in terms of coverage, quality and cost, with a focus on areas outside the capital city and special emphasis on service to the poor. The project would include: (i) a performance-based management contract for the Armenian Water and Sewerage Company (AWSC) with fixed fee and incentive bonuses; (ii) an investment fund to support strengthening of AWSC and systems in participating communities; and (iii) technical assistance to prepare and monitor the management contract and provide assistance to the government in establishing sector law and regulation.	5/4/2004	23.0	2/28/2009	J. Kamkwala
17 Armenia	Yerevan Water/Waste Water Services (P087641)	The project objective is to provide Yerevan with safe, continuous water supply at affordable cost while reducing environmental pollution.	2/24/2005	20.0	2/28/2011	J. Kamkwala
18 Armenia	Renewable Energy (P083352)	The Armenia Renewable Energy Project aims to increase the privately owned and operated power generation using renewable energy. The project global objective is to reduce greenhouse gas (carbon dioxide) emissions by overcoming barriers to the development of renewable energy.	3/29/2006	5.0	12/31/2010	G. Sargsyan
19 Armenia	Renewable Energy GEF (P090058)	The project global objective is to reduce greenhouse gas (carbon dioxide) emissions by overcoming barriers to the development of renewable energy.	3/29/2006	3.0	12/31/2010	G. Sargsyan
20 Armenia	Urban Heat (P057880)	The Urban Heating Project for Armenia will increase the use of clean, efficient, safe and affordable heating technologies in urban schools and multi-apartment buildings. The project will support implementation of the Urban Heating Strategy for multi-apartment buildings and improve heating in schools.	7/12/2005	15.0	6/30/2010	A. Balabanyan
21 Armenia	Irrigation Development (P055022)	The project will contribute to enhancing the profitability and sustainability of irrigated agriculture. It will provide the basis for stabilizing irrigated agriculture as a predominant source of productive employment, thus helping to prevent economically and socially unjustified rural/urban migration. This objective will be achieved primarily through a set of institutional reforms and incentives tailored to motivate water users to participate in the management of the irrigation system, and to facilitate the establishment of stakeholder-based incentives for improved Operation and Maintenance (O&M) of the irrigation infrastructure.	8/30/2001	24.9	3/31/2009	G. Fantozzi

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
22 Armenia	<b>Irrigation Dam Safety (P064879)</b>	The primary objective of the project is to protect the population and the socio-economic infrastructure downstream of the dams facing the highest risk of failure. Achieving this objective will also enhance the sustainability of dam-based economic activities in Armenia. Progress towards the project objective would be measured in terms of: (i) the reduction of the risk, related to dam failure, to socially acceptable levels for 360,000 people currently living under threat of high probability of failure of the riskiest 20 dams; and (ii) the improvement of the risk profile for the totality of the dam system in Armenia.	6/24/1999	26.6	12/31/2008	G. Fantozzi
23 Armenia	<b>Irrigation Dam Safety 2 (P088499)</b>	The project aims at upgrading the safety status of 47 dams in need of rehabilitation	6/10/2004	6.75	3/31/2009	G. Fantozzi
24 Armenia	<b>Avian Influenza Preparedness (P099832)</b>	The overall objective of the project is to minimize the threat in Armenia posed to humans by HPAI infection and other zoonoses in domestic poultry and prepare for the control and response to an influenza pandemic and other infectious disease emergencies in humans. To achieve this, three areas will be supported (i) prevention, (ii) preparedness and planning and (iii) response and containment. Achieving these goals will contribute to diminishing the risk and burden of disease and loss of productivity in Armenia, limiting the regional spread of HPAI, and enhancing economic and social prospects at the national, regional, and global levels.	6/2/2006	6.25	7/31/2009	F. Jungbluth
25 Armenia	<b>Rural Enterprise &amp; Small-Scale Commercial Agriculture Development (P087011)</b>	The project is to support the development of Armenia's small and medium-scale rural businesses by improving the ability of farmers and rural entrepreneurs to access markets and by stimulating market-oriented private and public investments in rural areas.	7/7/2005	20.0	5/31/2010	F. Jungbluth
26 Armenia	<b>Natural Resources Management &amp; Poverty Reduction (P057847)</b>	The project's development objective is adoption of sustainable natural resource management practices and alleviation of rural poverty in mountainous areas of Armenia where degradation of natural resources is now reaching a critical point. The project will help avert further deterioration of natural resources (soil, water, forest, fishery, and biodiversity) and stabilize incomes in the local communities.	6/4/2002	8.3	1/31/2009	F. Jungbluth
27 Armenia	<b>Natural Resources Management &amp; Poverty Reduction GEF (P069917)</b>	The global environmental objective of the project is to protect and conserve the mountain, grassland and forest ecosystems in the Southern Caucasus through enhanced protected area and mountain ecosystem conservation and sustainable management.	6/4/2002	5.1	1/31/2009	F. Jungbluth
28 Azerbaijan	<b>Highway (P040716)</b>	The objectives of the project are: (i) to help promote economic growth by improving access and lowering transport costs for goods and passenger traffic moving along the East-West highway between Ganja and the town of Gazakh, and (ii) to improve the quality of transport services available to the low income rural population living in the vicinity of the road as well as all road users by improving the organization, efficiency, and maintenance practices of the road organization Azeravtoyol.	6/12/2001	40.0	10/31/2007	O. Le Ber

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
29 Azerbaijan	IDP Economic Development Support (P089751)	The proposed 'IDP Economic Development Support Project (IDP-EDS)' is a 'repeater project' that replicates part of the 'Pilot Reconstruction Project' (Cr. 3 1090/3 1091-AZ), and its objective, like that of its predecessor, is to help improve the living conditions of IDPs and enhance their economic opportunities and prospects for social integration.	2/15/2005	11.5	12/31/2008	E. Hamilton
30 Azerbaijan	Power Transmission (P083341)	The primary objective of the project is to improve the reliability, quality, and cost-effectiveness of electricity supply in Azerbaijan by financing investments that improve the management and performance of the high-voltage transmission network.	5/17/2005	48.0	12/31/2010	B. Hamso
31 Azerbaijan	Highway II (P094488)	The main development objective of the Azerbaijan Second Highway Project is to reduce road transport costs and improve access, transit, and road safety within Azerbaijan's East-West and North-South corridors, through upgrading some sections of the Alat-Masalli road of the Baku-Iran highway (M3) and rehabilitating the Baku-Shamakhi road (M4).	1/17/2006	200.0	2/28/2011	O. Le Ber
32 Azerbaijan	Highly Pathogenic Avian Influenza Preparedness Project (formerly Institution Building Technical Assistance 2) (P066100)	The Project Development Objectives have been amended to include minimization of the threat posed to humans by HPAI infection and other zoonoses in domestic poultry and preparation for the control and response to an influenza pandemic and other infectious diseases. The Second Institution Building Technical Assistance Project is intended to provide technical assistance to support the policy measures to be implemented under the Second Structural Adjustment Credit (SAC II) (report no. P7512), which focus on improving transparency and accountability in public financial management; strengthening the tracking of poverty-reducing public expenditures and monitoring their impact; improving the strategic priority setting and transparency of public expenditures; and promoting private sector development.	6/18/2002	9.5	3/30/2008	R. Chirag-Zade
33 Azerbaijan	Rural Investment (P076234)	The Project is for households in rural communities completing micro-project investments to improve living standards and increase the use of infrastructure services. Micro-project investments in economic and social infrastructure will be identified and selected using demand driven processes. Funded micro-projects will be designed to increase access to and quality of rural economic and social infrastructure (e.g. markets, roads, schools, clinics).	6/3/2004	15.0	3/31/2009	M. Woodward
34 Azerbaijan	Rural Environment (P066199)	The project objective is to improve biodiversity conservation and introduce more sustainable natural resource management and economic activities in two mountainous areas of Azerbaijan, to restore the ecological health and productivity of their natural forests and pastures.	6/9/2005	8.0	12/31/2009	A. Kiss
35 Azerbaijan	Rural Environment GEF (P077031)	The global objective is to protect biodiversity in two globally significant biodiversity areas within the Caucasus and Zangezur mountains, and introduce and pilot an ecosystem-based approach for Protected Area (PA) management in Azerbaijan.	6/9/2005	5.0	12/31/2009	A. Kiss



COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
36 Azerbaijan	<b>Irrigation Distribution System &amp; Management Improvement (P008286)</b>	The project objective is to improve the effectiveness and financial viability of irrigation water distribution and management on 56,000 ha, through provision of support to Water Users Associations (WUA) and the State Amelioration and Irrigation Committee (SAIC).	6/17/2003	35.0	3/31/2010	J. Stoutjesdijk
37 Azerbaijan	<b>Agricultural Development and Credit II (P090887)</b>	The main objective is to further increase rural productivity and incomes by enhancing the access of farmers and small and medium rural enterprises to rural business and agricultural support services including financial, advisory and veterinary services and by stimulating market-oriented investments in rural areas.	6/27/2006	29.2	5/31/2011	F. Jungbluth
38 Azerbaijan	<b>Water Supply (P096213)</b>	The project will involve rehabilitation of water supply and sanitation systems in selected secondary cities and small towns across Azerbaijan. It will also provide bulk water meters for production and distribution facilities in several cities. Additionally, the project may include a commercial reform component that would seek to improve the billing and collection procedures of the utilities. The project would be split into two phases with the second phase dependent on strong performance in the first phase.	6/14/07	230.0	1/31/2012	A. Rohde
39 Azerbaijan	<b>Real Estate Regulation (P0100582)</b>	To improve the efficiency, security and completeness of the real estate registration system in support of real property markets in both urban and rural areas.	3/21/07	30.0	2/28/2013	G. Ionita
40 Belarus	<b>Social Infrastructure Retrofitting Project (P044748)</b>	This project aims to improve the functional and health environments of social sector facilities, with particular emphasis on reducing energy consumption. The project has two main components. The first component will support investment in physical infrastructure, which includes retrofitting buildings and repairing parts of associated heat networks. The second component, technical assistance, will support project implementation and advance sector policy discussions.	6/5/2001	22.6	12/31/2007	P. Salminen
41 Belarus	<b>Post-Chernobyl Recovery Project (P095115)</b>	The Belarus Post-Chernobyl Recovery Project aims to provide the population residing in the Chernobyl affected area with energy efficient and reliable heat and hot water services in order to improve their living environment.	4/18/2006	50.0	12/31/2010	P. Salminen
42 Bosnia and Herzegovina	<b>Small-Scale Commercial Agriculture Development (P055434)</b>	The project is to develop private, market-integrated commercial agriculture in selected low-income, high-potential areas of Bosnia and Herzegovina (BH). The project would (1) encourage farmers to adopt more productive and profitable production systems and increase the marketability of their surplus production, (2) assist them in marketing their produce through the formation of new-style cooperatives and other marketing associations, (3) create a dynamic commercial agriculture by strengthening the linkages among farmers and markets through the promotion of private sector investment in and credit for farming, agro-processing and trading, (4) facilitate the export of agricultural products, including those aimed at niche markets, through information and technical assistance and (5) support measures and investments to strengthen the physical and institutional infrastructure of rural communities.	3/25/2003	12.0	12/31/2009	J. Lampietti

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
43 Bosnia and Herzegovina	Forest Development & Conservation (P079161)	The project objective is to assist with the implementation of legislated reforms in forest organization, and management, expected to increase revenues, improve forest management, and enhance biodiversity conservation through participatory approaches in forest land use planning.	6/10/2003	3.74	11/30/2010	J. Mott
44 Bosnia and Herzegovina	Land Registration (P096200)	The project objective is to facilitate the orderly development of transparent land markets through the registration of real estate rights and complementary policies that enable transactions to be made with security and efficiency.	4/27/2006	15.0	3/31/2011	G. Adlington
45 Bosnia and Herzegovina	Electric Power Reconstruction III (P058521)	The project objective is to continue the post-conflict reconstruction program in the power sector and to ensure access to reliable, lower cost electricity, to be supplied with reduced environmental and safety risks, and improved cost recovery by suppliers.	6/26/2001	35.0	11/30/2007	A. Armar
46 Bosnia and Herzegovina	Solid Waste Management (P057950)	The objectives of the project are to: (i) improve solid waste services cost effectively in participating priority areas; (ii) increase administrative and technical capacity for solid waste management at the local and entity level; (iii) improve the cost recovery mechanism of the sector to encourage private sector involvement; and (iv) correct environmental problems and reduce health hazards caused by inadequate waste collection and disposal systems.	6/20/2002	18.0	11/30/2009	A. Dasgupta
47 Bosnia and Herzegovina	Solid Waste Management Supplemental (P095382)	The project is a continuation and scale-up of the Solid Waste Management Project; the objectives remain unchanged.	6/30/2005	8.0	11/30/2009	A. Dasgupta
48 Bosnia and Herzegovina	Urban Infrastructure & Service Delivery (P083353)	The objectives of the project are threefold: (i) improve the availability, quality and reliability of basic municipal services and in particular, water supply and sanitation; (ii) strengthen the ability of cantonal and municipal governments to improve management and institutional capacity for infrastructure development through Urban Management Development Plans; and (iii) where possible, foster deeper social cohesion through improvements in overall living conditions.	7/8/2004	20.0	12/15/2010	V. Francic
49 Bosnia and Herzegovina	Water Quality Protection GEF (P085112)	The project development objective is to further strengthen the capacity of local utilities and reduce pollution from municipal sources into the Neretva and Bosna Rivers. The global objective is to reduce municipal pollution and nutrients in the Adriatic Sea and the Danube Basin.	6/07/2005	8.9	2/28/2011	A. Dasgupta
50 Bosnia and Herzegovina	Energy Community of South East Europe— APL 3 (P090666)	Project facilitates Bosnia and Herzegovina's participation in the ECSEE through investments to improve dam safety; reduce adverse environmental impacts at thermal power stations; replace ageing existing facilities and equipment at hydropower and thermal power stations; rehabilitate distribution systems and introduce distribution Supervisory Control and Data Acquisition systems, establish a market operation system, improve the financial management information systems of the Elektroprivredas; and through technical assistance to facilitate project implementation and determine the best way to reduce sulfur dioxide and nitrogen oxide emissions at a power plant.	6/16/2006	36	12/31/2010	A. Armar

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
51 Bosnia and Herzegovina	Avian Flu (P100415)	The overall development objective (preliminary) is to minimize the threat posed to humans by highly pathogenic avian influenza (HPAI) infection and other zoonoses and to prepare for, control, and respond to influenza pandemics and other infectious disease emergencies in humans. To achieve this, three areas will be considered for support: i) prevention; ii) preparedness and planning; and iii) response and containment.	6/20/2007	5.0	12/31/2010	D. Bontempo
52 Bosnia and Herzegovina	Agriculture/Rural Development (P101213)	The task is to design a project with the overall objective of assisting Bosnia and Herzegovina in improving the competitiveness of its agricultural sector within the framework of EU accession.	6/19/2007	21.0	6/30/2012	C. Shaw
53 Bulgaria	District Heating (P008314)	The project will assist with the rehabilitation of the heating systems in Sofia and Pernik.	6/30/2003	34.2	6/30/2008	S. Sarkar
54 Bulgaria	Energy Efficiency GEF (P084831)	The global environmental objective of the project is to support a large increase in EE investments in Bulgaria through development of self-sustaining, market-based financing mechanisms. The project's goal is focused on the development and implementation of financially profitable EE projects, which can provide sustainable and increasing reductions in GHG emissions without relying on public subsidy.	3/22/2005	10.0	3/31/2010	I. Dobozi
55 Bulgaria	Wetlands Restoration & Pollution Reduction GEF (P068858)	The project objective is that local communities and local authorities in the Persian Nature Park and Kalimok/Brushlen Protected Site areas adopt sustainable natural resources management practices. The project will help demonstrate how environmentally-friendly rural development activities can improve livelihoods. The global environmental objective is to demonstrate and provide for replication of reduction of transboundary nutrient loads and other agricultural pollution flowing into the Danube River and the Black Sea basins while at the same time conserving key target threatened species in the project areas through: (i) wetlands restoration and protected areas management programs; and (ii) support for stakeholders to adopt environmentally-friendly economic activities in the two project areas.	6/13/2002	7.5	3/15/2008	A. Georgieva
56 Bulgaria	Registration & Cadastre (P055021)	The project objective is to improve the coverage, completeness, accuracy and responsiveness of the cadastre and real property registration systems and, therefore, contribute to the development of secure tenure of real property (and hence investments in housing, agriculture, commerce, manufacturing, and services), and of an efficient real property market, which is one of the requirements of EU accession.	6/21/2001	24.22	3/1/2008	A. Georgieva
57 Bulgaria	Lake Pomorie Conservation, Restoration and Sustainable Management GEF (P077800)	This project aims to promote the sustainable management of the Lake Pomorie and wetland ecosystem by fostering a combination of restoration, conservation and sustainable production activities.	2/17/2005	0.9	2/28/2009	A. Georgieva

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58 Bulgaria	Trade and Transport Facilitation (TTFSE 2) (P094018)	<p>The proposed development objective of TTFSE II is to enhance regional trade and transport through optimizing the use of the Trans-European Network Corridors, with a focus on the core Corridors IV, Xc and VII.</p> <p>The project will seek to achieve this objective through: (i) removing remaining border crossing bottlenecks at the future external EU borders on all three corridors; (ii) modernizing rail transport on Corridors IV and Xc; (iii) establishing a Border Police communication system on Corridors IV and Xc; (iv) improving freight information flows along Corridors IV and Xc; and (v) building the public-private sector capacity to address trade facilitation priorities in partnership. Improvements in trade facilitation practices are strongly correlated with increases in trade and GDP. The project is intended to be part of a regional program that may cover all other countries in Southeast Europe, creating synergies, particularly on information flows and corridor optimization, to achieve greater facilitation of legitimate trade and increased revenues.</p>	3/21/07	52.8	6/30/2012	H. Kerali
59 Bulgaria	Road Infrastructure Rehabilitation (P099894)	<p>The project will focus on roads, with the objective of ensuring that the government's overall road investment program, prior to and after EU accession, is achieved. Bank support will be utilized to co-finance a range of investments including upgrading of existing roads to higher standards, rehabilitation and maintenance of national, local and (possibly) municipal roads. An institutional development component will be designed to strengthen the capacity of the Road Executive Agency (REA) to prioritize road investment needs in order to achieve the maximum economic impact, and optimize its road maintenance practices.</p> <p>The proposed project is expected to comprise four components: (i) technical assistance to define priorities in line with the Medium Term Expenditure Framework (MTEF); (ii) institutional strengthening of the REA; (iii) co-financing of the road investment program focused primary on secondary roads; and (iv) fiduciary control of projects under implementation.</p>	6/26/2007	121.48	6/30/2011	M. Dali Essekali
60 Croatia	Coastal Cities Pollution Control (P065416)	<p>The overall project objective is to improve the quality of Croatia's Adriatic coastal waters in a financially and operationally sustainable manner, through: (i) support for the strengthening of the institutional arrangements for financing and management of wastewater treatment in Croatia; and (ii) the financing of wastewater treatment infrastructure in selected coastal municipalities. The Project will also provide technical assistance for engineering services, environmental assessments and auditing, in support of project implementation.</p>	6/1/2004	47.5	11/30/2008	M. Webster
61 Croatia	Energy Efficiency (GEF) (P071461)	<p>The objectives of the proposed project are to: (i) promote energy efficiency (EE) projects nationwide; (ii) establish a utility based energy service (ESCO) to develop and aggregate the capital for EE projects; and, (ii) develop in Croatia the knowledge and mechanisms necessary for financiers to fund EE projects.</p>	10/7/2003	7.0	6/30/2010	P. Johansen

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62 Croatia	<b>Energy Efficiency LIL (P079978)</b>	The objective of the proposed project is to increase the demand for and supply of energy efficiency projects and services. This will be achieved by (i) creating a core developer of energy efficiency projects within Hrvatska Elektroprivreda d.d. (HEP-the national power utility); (ii) providing a framework for other emerging service providers to tap into new energy.	10/7/2003	5.0	6/30/2010	P. Johansen
63 Croatia	<b>Municipal Environmental Infrastructure (P043444)</b>	The objectives of the project are to: (i) reduce municipal wastewater pollutant discharges into the environmentally sensitive Kastela and Trogir Bays consistent with applicable Croatian and EU standards; (ii) improve the safety, reliability and delivery of drinking water in the project area; and (iii) improve the operational and financial performance of the SWSC.	6/18/1998	36.3	12/31/2007	S. Gabric
64 Croatia	<b>Rijeka Gateway Project (P043195)</b>	The main objective of the project is to transform the port of Rijeka into a port adapted to a modern and competitive transport market and decrease the level of Government subsidies to the port.	7/8/2003	156.5	12/31/2010	G. Ollivier
65 Croatia	<b>Renewable Energy Restructuring GEF (P071464)</b>	The objective of the proposed project is to help develop an economically and environmentally sustainable market for renewable energy resources in Croatia. Development of this market will support Croatia in its EU accession efforts. In addition, the project will help make Croatia's economy less reliant on imported electricity and fossil fuels, reduce overall emissions, lead to a higher degree of local equipment manufacturing, and create an attractive climate for private investment in renewable energy, and generate local industry and employment.	6/23/2005	5.5	3/31/2010	P. Johansen
66 Croatia	<b>District Heating Project (P095389)</b>	The project objective is to promote efficient operations by Croatian heating company HEPT. This objective will be met by reducing energy and water losses; increasing the profitability of HEPT; and increasing the level of customer satisfaction.	6/20/2006	29.8	6/30/2010	S. Sarkar
67 Croatia	<b>Agricultural Acquis Cohesion (P091715)</b>	The project is to develop sustainable systems and capacities within the MAFWM to ensure timely compliance with EU acquis conditions in the rural sector.	2/16/2006	30.1	10/31/2010	A. Nacev
68 Croatia	<b>Social &amp; Economic Recovery (P076730)</b>	The project objective is to support the economic and social revitalization of disadvantaged and war-affected areas, as a way to increase social cohesion.	3/29/2005	45.6	6/30/2009	G. La Cava
69 Croatia	<b>Karst Ecosystem Conservation GEF (P042014)</b>	The project objective is that local residents, tourists and other visitors to participating national parks and other protected areas in the karst region refrain from practices identified as detrimental to biodiversity conservation and adopt recommended behaviors that preserve and protect the unique features of the karst environment.	5/23/2002	5.0	12/31/2007	K. Shepardson

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70 Croatia	<b>Trade &amp; Transport Integration (P093767)</b>	The overall development objective is to improve the transport corridor Vc capacity, efficiency and quality of services to meet projected traffic demand with particular focus on the Ploce Port and support regional development. The project would seek to achieve this objective through (i) increased port capacity for bulk and container/multipurpose traffic; (ii) reduction of administrative barriers for rail transport along Corridor Vc; (iii) optimization of the transport chain to and from Ploce Port; (iv) improved effectiveness and coordination of border agency activities; and, potentially, (v) a public-private partnership to address these priorities, reduce commercial risks and secure financing for superstructure and port cargo handling equipment.	11/14/2006	75.3	12/31/2011	G.Ollivier
71 Croatia	<b>Inland Waters Project (P098948)</b>	The objective of the Inland Waters Project of Croatia is to improve water supply services, wastewater services, and flood protection measures in municipalities selected from the inland part of Croatia. The project will have two components: (1) Technical Assistance (TA) through which assistance will be provided to Hrvatske Vode (HV) and participating utilities to implement the project. The Technical Assistance component will have the following three components: a) EU Accession Support, through which HV as a national entity will be involved in implementation of activities in the country related to meeting EU directives and absorption of EU funds. To this end, it will implement the Water Management Strategy that involves strengthening of institutions and preparing projects that will be eligible to receive funds from the EU or other sources; b) Project Implementation Support which will be implemented by HV; and c) Institutional Strengthening of Utilities which will be used by the utilities that will benefit from the project. (2) Investments to improve coverage and service of water and wastewater services in selected municipalities and flood protection measures. The Investment component will have the following two sub-components: a) Utility Investments through which there will be three sets of proposed utility investments. These investments will be undertaken by the local utilities, with assistance from HV; and b) Flood Protection which will support the implementation of flood protection measures in the Central Posavina area in the Sava river basin. The investments will increase flood management coverage through the rehabilitation and expansion of dikes, canals, and channels	5/30/2007	133.4	12/31/2012	S. Sarkar
72 Croatia	<b>Real Property Registration &amp; Cadastre (P067149)</b>	The objective of the proposed project is to improve the real property market by addressing aspects of the supporting infrastructure, especially the real property registration system in the municipal courts, the cadastre system that is operated by the State Geodetic Administration at the regional and branch office levels, and the private sector support professionals.	8/29/2002	25.7	9/30/2008	V. Stanley

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73 Europe and Central Asia	GeoFund 1 (P075046)	The Europe and Central Asia (ECA) - Geothermal Energy Development Program aims to systematically promote the use of geothermal energy in the ECA region by removing barriers to the development of renewable energy. The project components are: 1: The Technical Assistance (TA) component of the GeoFund will address information and capacity barriers that retard the use of RER and geothermal energy. Assistance will be provided for: a) Region-wide and country specific capacity building to improve understanding of the nature of barriers and to find ways to remove them; b) Region-wide and country specific policy reviews concerning energy demand and use and amendments to legislation favorable to geothermal energy; and c) Project preparation and implementation. 2: Direct Investment Funding (DIF) will support project developers through providing low-cost loans, straight grants, or contingent grants where refund of a grant may be required under certain circumstances or the disbursement will be tied to fulfillment of pre-determined milestones. 3: The Geological Risk Insurance (GRI) component will help to mitigate the geological risks associated with geothermal energy exploration and operation.	11/14/2006	4.5	12/30/2008	H. Schreiber
74 Georgia	Electricity Market Support (P054886)	The main objectives of the project are to: (i) improve the reliability and efficiency of electricity supply, and (ii) improve financial and corporate management in the wholesale electricity market.	5/30/2001	34.6	12/31/2008	B. Hamso
75 Georgia	Energy Transit Institution Building (P072394)	The project aims to enhance the capacity of Georgia to negotiate and implement oil and gas transit agreements in a manner that maximizes economic benefits, and minimizes social and environmental costs. Georgia has considerable potential for transit of hydrocarbons, particularly by comparison to its other economic assets. However, realizing positive net benefits from large transit investments (in a very complex geopolitical context) requires very careful management by the State and substantial institution building.	3/13/2001	9.6	12/31/2007	J. Melitauri
76 Georgia	Municipal Development II (P077358)	The objective of the project is to improve delivery of basic local services to the population by (i) further developing the institutional and financial capacity of local government units and utilities, and, (ii) increasing the funding available to local governments and utilities for investments in infrastructure and service equipment.	8/1/2002	19.4	12/30/2007	A. Eiweida
77 Georgia	Secondary and Local Roads (P086277)	The proposed project will rehabilitate 200 km of secondary and 500 km local roads as a pilot program to improve market integration and access to services for the rural poor.	6/24/2004	20.0	10/31/2009	T. Sulukhia
78 Georgia	Infrastructure Pre-investment Facility (P098850)	The development objective of the IPF Project is to facilitate infrastructure investments of strategic importance and/or special complexity, through the mobilization of adequate implementation finance, particularly focusing on energy and transport sectors, consistent with the Government's investment priorities, and the Country Partnership Strategy (CPS) objectives. Specifically, the IPF Project will finance technical assistance (TA) to assess the feasibility and effectiveness of investments.	2/16/2006	5.0	9/30/2009	T. Sulukhia

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79 Georgia	Energy Supplemental Project (P088911)	The purpose of this supplemental project is to increase the scope of the original Electricity Market Support Project.	06/24/2004	3.6	12/31/2007	B. Hamso
80 Georgia	Protected Areas Development GEF (P048791)	The project objective is to conserve Georgian biodiversity through the creation of three ecologically and socially sustainable protected areas in forest ecosystems, and to build capacity for mainstreaming biodiversity conservation into the production landscapes which connect them. The project would (i) support protected areas planning in the Central and Eastern Caucasus; (ii) establish protected areas management and build awareness of biodiversity conservation at three sites in the Eastern Caucasus; and (iii) reorganize and strengthen the Department of Protected Areas to conserve and manage biodiversity.	5/24/2001	8.7	12/31/2007	D. Kapanadze
81 Georgia	Forests Development (P044800)	The project objective is to establish sound forest management systems that maximize the contribution of Georgia's forests to economic development and rural poverty reduction on an environmentally sustainable basis.	8/1/2002	15.7	6/30/2009	A. Kushlin
82 Georgia	Irrigation & Drainage Community Development (P055068)	The project objective is to increase agricultural production and farm incomes on 110,000 ha by arresting further deterioration of irrigation and drainage infrastructure and keeping the operable infrastructure functional, through: (i) establishment and support to AAs that will take over O&M of irrigation and drainage systems within their service territories; (ii) repair and rehabilitation of irrigation and drainage infrastructure to improve irrigation water conveyance and distribution, and drainage discharge; and (iii) limited support to DAWE to improve its management of rehabilitated irrigation and drainage infrastructure.	6/28/2001	27.0	4/30/2008	J. Stoutjesdijk
83 Georgia	Irrigation & Drainage Community Development Additional Financing (P095551)	The objective for the proposed reconstruction of flood-damaged infrastructure component would be to improve and secure the sustainability of river flood protection works and irrigation headworks and canals, which, if unattended, could lead to increased flooding occurrences and infrastructure damage, and subsequent human life and economic losses.	6/30/2005	13.0	4/30/2008	J. Stoutjesdijk
84 Georgia	Rural Development (P078544)	The project objective is to develop the productivity and profitability of the private agriculture sector. This would be achieved by facilitating the access of Georgia's mainly small and medium-scale farmers to supply chains, improving the competitiveness of the supply chains and strengthening the capacity of selected agricultural and financial institutions to serve private-sector agricultural market activity. This would increase incomes and employment and reduce poverty in rural areas.	5/17/2005	10.0	6/30/2010	F. Jungbluth
85 Georgia	Highway Improvement I (P083110)	The main project development objective is to reduce road transport costs and improve access, transit and safety within Georgia's East-West corridor, through upgrading of a segment of the East-West Highway from Tbilisi to Rikoti and supporting private financing to rehabilitate the Rikoti tunnel.	12/05/2006	19.0	2/28/2011	O. LeBer



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86 Georgia	<b>Avian Influenza Control &amp; Human Pandemic Preparedness &amp; Response (P099808)</b>	The project objective is to minimize the threat posed to humans and the poultry industry in Georgia by HPAI and other zoonoses in domestic poultry, and to prepare for, control, and respond to influenza pandemics and other infectious disease emergencies in humans. To achieve this, three areas would be supported by the project: (i) prevention; (ii) preparedness and planning; and (iii) response and containment.	5/31/2006	7.0	8/31/2009	F. Jungbluth
87 Hungary	<b>Municipal Wastewater (P008497)</b>	The objectives of the project are to: (i) reduce the pollution load in the Danube River Basin; (ii) strengthen the Borrower's compliance with Hungarian and EU environmental standards; and (iii) improve wastewater operations in the water and wastewater utilities of the Borrowers.	9/16/1999	31.6	12/31/2008	S. McMillan
88 Hungary	<b>Nutrient Reduction GEF Project (P074971)</b>	The project aims (1) to reduce Budapest's discharge of nutrients (nitrogen and phosphorus) into the Danube River, and consequently into the Black Sea; (2) to enhance the nutrient trapping capacity of Gemenc and Beda-Karapanca wetlands situated in the lower Hungarian part of the Danube River; and (3) to serve as a model for similar nutrient reduction initiatives in Hungary and other Danube basin countries.	4/18/2006	12.5	12/31/2011	G. Azevedo
89 Kazakhstan	<b>North-South Electricity Transmission Project (P095155)</b>	The primary development objective is to ensure that business enterprises and households in southern Kazakhstan have access to a reliable, cost effective and high quality supply of electricity. The project also aims to promote competition on the electricity market.	10/27/2005	100.0	12/31/2009	I. Dobozi
90 Kazakhstan	<b>Electricity Transmission Rehabilitation (P065414)</b>	The objectives of the Electricity Transmission Rehabilitation Project are to: (i) improve the reliability and quality of electricity supply through the refurbishment of transmission substations and modernization of the dispatch control system; (ii) develop competition through the establishment of a power pool and improved access to the transmission network; and (iii) restructure the Kazakhstan Electricity Grid Operating Company (KEGOC) into a financially viable grid company through full cost recovery for its services and divesting non-core businesses.	12/21/1999	140.0	6/15/2009	I. Dobozi
91 Kazakhstan	<b>Agricultural Post-Privatization Assistance 2 (APL Phase 2) (P058015)</b>	The project will promote rural financial services through (a) expanding rural financial advisory services; (b) improving agricultural risk management; (c) facilitating rural financial product development; and (d) promoting sustainable rural micro-finance.	12/31/2004	35.0	12/31/2009	E. Betubiza
92 Kazakhstan	<b>Nura River Clean-Up (P059803)</b>	The project development objective is to improve the welfare of the population in the Nura River Basin by cleaning up serious mercury pollution in and adjacent to the Nura River, providing a safe, secure and cost effective alternative source of water supply to meet growing needs of local water users, and restoring flow control in the river for flood management and ecological purposes.	5/8/2003	40.3	9/30/2009	K. Van Den Berg

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93 Kazakhstan	<b>Agricultural Competitiveness (P049721)</b>	The project will increase the competitiveness of the agricultural sector in Kazakhstan. To achieve this objective, the project will facilitate access to markets by supporting measures to improve the quality and safety of agricultural products, enhance access to information, and harmonize standards.	4/28/2005	24.0	7/30/2010	M. Guadagni
94 Kazakhstan	<b>Forest Protection &amp; Reforestation (P078301)</b>	The project objective is to develop cost effective and sustainable environmental rehabilitation and management of forest lands and associated rangelands, with a focus on the Irtysh pine forest, the dry Aral Seabed, and saxaul rangelands.	11/29/2005	30.0	11/30/2012	J. Mott
95 Kazakhstan	<b>Forest Protection &amp; Reforestation GEF (P087485)</b>	The project objective is to develop cost effective and sustainable environmental rehabilitation and management of forest lands and associated rangelands, with a focus on the Irtysh pine forest, the dry Aral Seabed, and saxaul rangelands. The development objective is both local and global in nature.	11/29/2005	5.0	11/30/2012	J. Mott
96 Kazakhstan	<b>Drylands Management GEF (P071525)</b>	The project objective is to demonstrate and promote sustainable land uses in the marginal dryland ecosystem of a pilot area in the Shetsky rayon (a district in the southern part of the Karaganda oblast-province). The proposed project is a pilot activity that will test the environmental, social and economic viability of shifting from the current unsustainable cereal-based production system to the traditional livestock-based production system.	6/19/2003	5.3	3/31/2009	B. Utkelov
97 Kazakhstan	<b>Syr Darya Control &amp; Northern Aral Sea Phase I (P046045)</b>	The project's overall objectives are: (i) sustaining and increasing agriculture (including livestock) and fish production in the Syr Darya basin in Kazakhstan; and (ii) securing the existence of the Northern Aral Sea (NAS) and improving the ecological/environmental conditions in the delta and around NAS leading to improved human and animal health and conservation of biodiversity.	6/5/2001	64.5	12/31/2008	J. Stoutjesdijk
98 Kazakhstan	<b>Ust-Kamenogorsk Environmental Remediation (P078342)</b>	The high concentration of industries in and around Ust Kamenogorsk, combined with inadequate pollution controls and improper storage of waste, has resulted in the contamination of air, water and soil. High level of industrial pollution is causing health related problems and out-migration from the city, particularly among highly qualified professionals, who perceive a significant risk to their health from the city's drinking sources. The development objectives the project are to:(i) improve the quality of water supply for the population and for industrial activities in Ust-Kamenogorsk; (ii) safeguard the Irtyush River Basin from toxic metal waste pollution; and (iii) involve large industrial enterprises in the resolution of priority environmental problems in the region.	2/1/2007	24.2	3/30/2013	F. Van Woerden
99 Kazakhstan	<b>Road Transport Restructuring (P008499)</b>	Rehabilitate and Maintain key parts of the country's road infrastructure, help restructure the road construction industry and implement key improvements in sector policies and institutions.	2/9/1999	100.0	12/31/2007	H. Kerali

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100 Kosovo	<b>Energy Sector Technical Assistance Project-III (P088865)</b>	The project's primary objectives are (i) to support Kosovo's integration with the regional energy market through assistance with implementation of its immediate obligations under the Athens Memorandum namely the establishment of an independent Transmission and System Operator (TSO), development of a Grid Code, development of transmission and retail tariffs including subsidy mechanism, and institutional strengthening to participate in the market, and (ii) to develop a policy framework, guidelines, and institutional capacity for the utilization of Kosovo's mineral resources.	3/29/2005	2.5	06/30/2008	H. Dalil Essakali
101 Kosovo	<b>Energy Sector Cleanup and Land Reclamation (P096181)</b>	The project objectives are to: (a) address environmental legacy issues related to open dumping of ashes on land; (b) enable Kosovo Energy Corporation J.S.C. (KEK) to free land for community development purposes currently taken by overburden material and to enable KEK to remove Kosovo A ash dump; and (c) build capacity in KEK for continued clean-up and environmentally good practice mining operations.	6/13/2006	5.5	12/31/2010	F. Van Woerden
102 Kosovo	<b>Lignite Power Technical Assistance Project (P097635)</b>	The objectives of the LPTAP are (a) to help the PISG strengthen the enabling policy, legal and regulatory frameworks conducive to new investments in the energy sector; and (b) to assist the PISG to attract qualified private investors to build new capacity for lignite thermal power generation guided by high standards of environmental and social sustainability. The LPTAP objective will be attained through: (a) developing and strengthening the enabling policy, legal and regulatory frameworks in the energy sector, including mitigating environmental impacts and developing a framework for expropriation and resettlement; (b) developing an institutional structure and capacity to implement the broader sector strategy, including mobilizing financing and dealing with FDI in the energy sector; and (c) technical consultancies, with inputs from studies financed by the EAR, to seek qualified strategic investors in the proposed mine and independent power plant (IPP).	9/12/2006	9.0	12/31/2009	S. Sinclair
103 Kosovo	<b>Avian Flu (P10265)</b>	The overall development objective (preliminary) is to minimize the threat posed to humans by highly pathogenic avian influenza (HPAI) infection and other zoonoses and to prepare for, control, and respond to influenza pandemics and other infectious disease emergencies in humans. To achieve this, three areas will be considered for support: i) prevention; ii) preparedness and planning; and iii) response and containment.	2/1/2007	3.0	4/30/2010	Ibrahim Hackaj
104 Kyrgyz Republic	<b>Consolidated TA (P069814)</b>	The Technical Assistance Credit (TAC) would help build and strengthen the country's institutional capacity to: (i) improve the business environment; (ii) improve revenue mobilization; and (iii) support energy sector reform.	6/22/2000	5.0	12/31/2007	M. Aldayarov

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105 Kyrgyz Republic	Power and District Heating (P008519)	The objective of the project is to support economic growth through rehabilitation and upgrading of electricity and heat infrastructure and to assist the Government in restructuring the power and heat sector. Specific objectives are to: (i) restructure KNEHC along commercial lines and introduce appropriate financial and commercial management; (ii) reduce power and heat losses and improve the power and district heating system efficiency and reliability; (iii) reduce the adverse environmental impact of the power and heat facilities; and (iv) attract private sector interest in petroleum exploration and production.	5/23/1996	20.0	12/31/2007	R. Sharma
106 Kyrgyz Republic	Rural Water and Sanitation (P036977)	The project includes: (i) rehabilitation and construction of village water supply systems; (ii) rehabilitation of small town water systems; (iii) institutional strengthening, project management and subproject preparation for village water supply systems; (iv) institutional strengthening and project management for water systems in small towns; and (v) incremental operating costs.	12/4/2001	15.0	10/31/2008	M. Aldayarov
107 Kyrgyz Republic	Small Towns Infrastructure & Capacity Building (P083377)	The development objective of the proposed Project is to improve the availability, quality and efficiency of local infrastructure services for the population of participating small towns. This objective will be achieved by (a) financing the rehabilitation and/or repair of basic infrastructure and utility service installations and equipment, and (b) assisting local governments in increasing the effectiveness of the management of local infrastructure services.	12/14/2004	15.0	3/31/2010	J. Kamkwala
108 Kyrgyz Republic	Power and District Heating Supplemental Project (P055733)	The objective of this supplemental project is to expand the scope of the original Power and District Heating Project.	6/25/1998	15.0	12/31/2007	R. Sharma
109 Kyrgyz Republic	Land & Real Estate Registration (P049719)	The project objective is to support development of markets for land and real estate and the more intensive and effective use of land and real estate through the introduction of a reliable and well-functioning system for registration of rights in immovable property.	6/6/2000	9.4	12/31/2007	J. Mott
110 Kyrgyz Republic	Agribusiness & Marketing (P049724)	The direct project development objectives will be to expand the level of activity of processing, marketing, and trade enterprises downstream of the farm gate, to increase the number and economic importance of producer organizations, and to build trade linkages between producers, and primary and secondary level trade organizations. The project will work directly with private enterprises and commercial organizations to improve the competitiveness of Kyrgyz products.	12/14/2004	8.1	12/31/2010	E. Betubiza
111 Kyrgyz Republic	Avian Influenza Control & Human Pandemic Preparedness & Response (P099453)	The objective of the project is to minimize the threat in the Kyrgyz Republic posed to humans and to the poultry industry by Highly Pathogenic Avian Influenza (HPAI) infection and to prepare for, control, and respond to an influenza pandemic.	2/9/2006	4.0	12/30/2010	M. Guadagni

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112 Kyrgyz Republic	Agriculture Support Services (P040721)	The objective of the project is to improve the incentive framework for, and the productivity, profitability and sustainability of, Kyrgyz agriculture by assisting the Borrower in: (a) implementing land and agrarian reforms and providing support for farm restructuring; (b) providing emerging private farms with advisory and development services and training in appropriate improved production technology and practices; (c) promoting the development of a viable seed industry; (d) establishing the legal framework, institutions and procedures for plant protection and plant quarantine services; (e) establishing an agricultural market information system; and (f) enhancing the institutional capacity of the Ministry of Agriculture (MAWRPI).	5/7/1998	13.0	6/30/2008	M. Guadagni
113 Kyrgyz Republic	Village Investment (P073973)	The project objective is to contribute to the alleviation of rural poverty. It seeks to achieve this by pursuing three specific objectives: (a) improving governance and capacity at the local level; (b) strengthening the provision of, and access to, essential infrastructure services; and (c) supporting private small-scale group enterprise development.	12/16/2003	15.1	8/31/2008	K. McLean
114 Kyrgyz Republic	Water Management Improvement (P088671)	The project will have a two-pronged development objective: (i) improving irrigation service delivery and water management for the benefit of a sustainable increase in irrigated agricultural productivity; and (ii) improving national water resource governance for the benefit of water users and the nation as a whole.	3/29/2006	19.0	12/31/2011	J. Stoutjesdijk
115 Kyrgyz Republic	Disaster Hazard Mitigation Project (P083235)	The project development objective is to: (a) minimize the exposure of humans, livestock, and riverine flora and fauna to radionuclides associated with abandoned uranium mine tailings and waste rock dumps in the Mailuu-Suu area; (b) improve the effectiveness of emergency management and response by national and sub-national authorities and local communities to disaster situations; and (c) reduce the loss of life and property in key landslide areas of the country.	6/15/2004	6.9	3/31/2010	J. Stoutjesdijk
116 Kyrgyz Republic	Disaster Hazard Mitigation Project GEF (P095206)	The project objective is to protect the integrity of the Mailuu-Suu ecosystem by addressing transboundary contamination of the Mailuu-Suu river and land degradation in the surrounding areas. In particular, the project will aim at keeping the transboundary pollution loads within the applicable standards, ensuring sustainable natural resources management to reduce the risk of landslides, and strengthening regional cooperation among neighboring countries to mitigate natural hazard risks.	5/19/2005	1.0	3/31/2010	J. Stoutjesdijk
117 Kyrgyz Republic	On-Farm Irrigation (P049723)	The project objective is to achieve increased crop production through reliable and sustainable water distribution on about 160,000 ha of irrigated land across the country's seven oblasts.	6/6/2000	20.0	5/31/2008	J. Stoutjesdijk
118 Kyrgyz Republic	Second Village Investment (P098949)	The project will sustain and expand the achievements realized under the first Village Investment Project, by expanding coverage to all 473 rural communities in the country. The overarching aim of the project is alleviation of rural poverty. It seeks to achieve this by empowering communities to improve access to social and economic infrastructure services and employment opportunities.	8/3/2006	15.0	6/30/2011	K. McLean

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119 Kyrgyz Republic	On-Farm Irrigation Project 2 (P096409)	Repeater project to continue support and strengthening to about 450 Water Users Associations (WUA) that have been established under OIP-1. The project will also finance rehabilitation and modernization of irrigation and drainage infrastructure that is being managed by WUAs. The number of WUAs and command area to benefit is estimated at 40 and 75,000 ha, respectively.	6/19/07	16.0	6/30/2013	J. Stoutjesdijk
120 Lithuania	Klaipeda Port (P035776)	The main objective of the project is to strengthen the long term competitiveness of the Port of Klaipeda in the Baltic Region. The project's second objective is to improve environmental conditions by preventing spills, improving waste reception facilities, and providing necessary disposal facilities and continuous monitoring of environmental conditions at the port.	5/11/2000	35.4	12/31/2008	M. Audige
121 Lithuania	Vilnius Heat Demand Management (GEF) (P073242)	The project will include rehabilitation of the Vilnius district heating systems and support for the commercialization and strengthening of the district heating company.	6/10/2003	6.5	6/30/2008	P. Johansen
122 Macedonia, FYR	Real Estate Cadastre & Registration (P083126)	The project objective is to build an efficient and effective real estate cadastre and registration system, contributing to the development of efficient land and real estate markets.	3/15/2005	14.0	12/31/2009	V. Stanley
123 Macedonia, FYR	Trade and Transport Facilitation in Southeast Europe 2 (P091723)	Objective: Increase competitiveness of the region through improving regional transport infrastructure (corridors) and increasing the availability of adequate logistics services connecting Southeast Europe and Europe through supporting infrastructure and technical assistance for border agencies modernization while strengthening the private sector, mindful of the new global security environment and of the environmental sustainability of various transport modes	5/29/2007	20.0	9/30/2011	A. Schliessler
124 Macedonia, FYR	Agriculture Strengthening and Access (P101216)	The Project Development Objective is to improve the delivery of government assistance to the agriculture sector in a manner consistent with the European Union's pre-accession requirements. There are 4 components to the Project: Component 1 will strengthen the Ministry of Agriculture, Forestry and Water Economy's (MAFWE) Administrative and Management capacity in compliance with EU accession requirements; Component 2 will support the government's capacity to disburse EU Rural Development (IPARD) funds; Component 3 will develop effective veterinary capacity for an EU-compliant Food Safety System; and Component 4 will help complete reform and restructuring in the irrigation sector	6/12/2007	20.0	9/30/2001	J. Lampietti
125 Macedonia, FYR	Railways Reform (P083499)	The project development objective is to improve the financial viability, productivity, and effectiveness of railway operations. This would be achieved through labor rationalization, separation of infrastructure from operations, increasing accountability for performance of the separated entities, introducing competition in rail operations, and restructuring and rationalization of passenger services.	9/15/2005	19.4	10/31/2009	A. Schliessler

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126 Macedonia, FYR	Energy Community of Southeast Europe— APL 3 (P082337)	The project supports integration of FYR Macedonia into the regional power market. Specifically, the project would finance investments in power transmission required to support integrated operation, together with institutional development that would support market participation. The project provides support to the Macedonian Transmission System Operator (MEPSO). Investment support would focus on a new transmission interconnection with Greece, rehabilitation of existing high voltage lines, substation rehabilitation and upgrade, and upgrade of the Energy Management System. Institutional support would focus on introducing a Financial Management Information System for MEPSO and improve accounting practices.	1/10/2006	25.0	3/31/2011	H. Beides
127 Macedonia, FYR	Sustainable Energy (GEF) (P089656)	Sustainable energy program for Macedonia. Establishment of a Project Development Assistance Facility and a Sustainable Energy Financing Facility. The aim is to considerably expand the market for energy efficiency and renewable energy through provision of Technical assistance and Financial Intermediation.	9/07/2006	5.8	3/31/2007	P. Johansen
128 Montenegro	Environment (P079116)	The main objective of the Montenegro Environmentally Sensitive Tourist Areas Project is to create ecological and commercially sustainable solid waste collection and disposal services in Montenegro coastal municipalities, needed to maintain a clean, environmentally attractive coastal area. The project has three main components.	9/11/2003	7.0	3/31/2008	A. Rohde
129 Montenegro	Sustainable Tourism Development (P093461)	The proposed project for sustainable tourism development will assist Montenegro in better designing and implementing an integrated coastal zone management approach to reduce coastal degradation and at the same time foster environmentally sound tourism development. The project has the following components: Integrated coastal zone management policy and institutional capacity building will finance improvements in land-use planning and protection to guard against uncontrolled construction and development. Coastal environmental infrastructure component will finance investments for the continental and southern part of the regional water supply scheme to provide water from Lake Skadar to the Municipality of Bar. Project management and monitoring component will finance consultant services, training, equipment and incremental costs for project management, coordination, monitoring and evaluation	6/12/2007	10.0	9/30/2011	A. Rohde
130 Moldova	Energy II (P040558)	The project supports demonopolization and privatization program for the power sector, including: (i) upgrading of power system control and data acquisition facilities; (ii) commercial metering equipment; (iii) upgrading of electrical substations; and (iv) technical assistance for institutional reform. The project will also provide support to the heating sector by initiating an investment program and supporting the restructuring of the sector.	11/25/2003	35.0	4/30/2008	D. Ostojic



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131	Moldova Water and Sanitation (P074469)	The objective of the pilot project is to test new approaches to improve the service quality, efficiency and financial sustainability of the water supply and wastewater services in rural and medium-sized towns and cities. This objective would be achieved through: (i) strategic rehabilitation and efficiency improvements of selected water supply and sewerage facilities; (ii) general institutional strengthening of selected Apa Canals (water utilities); and (iii) strengthening of the Apa Canals' financial capacity through improved financial planning and commercial practices.	6/30/2003	12.0	12/31/2007	T. Ikegami
132	Moldova Trade and Transport Facilitation in Southeast Europe (P073626)	The project seeks two development objectives: (i) to reduce non-tariff costs to trade and transport; and (ii) to increase revenue and compliance, and reduce smuggling and corruption at border crossings.	6/10/2003	7.2	9/30/2007	A. Dumitrescu
133	Moldova Persistent Organic Pollutants (POPs) Stockpiles Management & Destruction GEF (P090037)	The project aims to protect the environment and human health by safely managing and disposing of stockpiles of POPS contaminated pesticides and Polychlorinated biphenyls (PCBs). The global project objective of the project is sustainable POPS stockpiles management and strengthening of the regulatory and institutional arrangements for long term control of POPS and other toxic substances in line with the requirements of the Stockholm Convention and other related conventions and protocols ratified by Moldova.	2/9/2006	6.4	5/31/2010	A. Gobjila
134	Moldova Agricultural Pollution Control GEF (P075995)	The project objective is to increase significantly the use of environmentally friendly agricultural practices by farmers and agro-industry in Moldova in order to reduce nutrient discharge from agricultural sources to the Danube River and Black Sea. In support of this, the project will: (i) promote the adoption of mitigating measures by farmers and agro-industry for reducing nutrient loads (nitrogen and phosphorous) entering local water bodies; (ii) strengthen national policy, regulatory enforcement and institutional capacity for agricultural nutrient pollution control and organic farming; and (iii) promote a public awareness campaign and replication strategy so that project activities could be replicated in similar areas within Moldova and other Black Sea riparian countries.	2/26/2004	5.0	12/31/2009	C. Shaw
135	Moldova Avian Influenza Control & Human Pandemic Preparedness & Response (P099841)	The overall objective of the Project is to minimize the threat posed to humans by Highly Pathogenic Avian Influenza (HPAI) and other infectious diseases that originate in animals. To achieve this, the Project will conduct surveillance for outbreaks of such diseases, prepare for outbreaks, and act to control outbreaks among humans and animals.	6/9/2006	8.0	12/31/2009	A. Gobjila
136	Moldova Rural Investment & Services (APL #2) (P090673)	The project is the second phase of a two-phase Rural Investment and Services Program. The program objective is to continue to foster the post-privatization growth in the agricultural and rural sectors of Moldova by improving access of farmers and rural entrepreneurs to know-how, knowledge and financial services, while building the capacity of the private and public institutions to ensure the sustainability of the activities.	3/28/2006	15.0	6/30/2010	P.O. Colleye



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137	Moldova <b>Renewable Energy from Agricultural Waste (Biomass) GEF (P084688)</b>	The main objective is to overcome barriers to the update of biomass technologies by providing examples of best practice (demonstration plants) in the use of biomass fuelled energy systems as a viable alternative to gas, oil and coal and as a sustainable means of addressing the energy supply problems facing rural communities and agro-enterprises. Demonstration systems would be of a size, scale and cost appropriate for wide replication in rural areas. This would be supported by access to information, technical support and a fund to cover the incremental capital cost in installation of biomass-fuelled systems.	6/27/2005	1.0	12/31/2007	A. Gobjila
138	Moldova <b>Road Sector Program Support (P100929)</b>	The project will support the Government of Moldova in the reform of road network management and maintenance, with the objective to revert the serious and continued deterioration of the road network during the past 15 years. The project will co-finance physical interventions in road rehabilitation and maintenance, as well as institutional strengthening and technical assistance measures.	3/29/2007	16.0	6/30/2011	A. Schliessler
139	Moldova <b>Environmental Infrastructure (GEF) (P074139)</b>	The key development objectives of the Environmental Infrastructure Project for Moldova are: (i) improve the quality of sanitation services in Soroca; (ii) reduce the discharge of pollutants, including nutrients, from Soroca municipal sources that flow into the Nistru River and, subsequently, into the Black Sea; and (iii) demonstrate viable nutrient reduction strategies and technologies from municipal sources for the benefit of Moldova and Black Sea region.	5/29/2007	5.0	N/A	T. Ikegami
140	Poland <b>Krakov Energy Efficiency (P065059)</b>	The project aims to: (i) improve the efficiency of the city's district heating (DH) systems; (ii) decrease heat energy consumption by improving energy efficiency at the end-user level; and (iii) develop knowledge-based mechanisms to finance energy efficiency projects.	6/7/2001	15.0	12/31/2007	P. Johansen
141	Poland <b>Krakov Energy Efficiency GEF (P070246)</b>	The objective of the proposed project is to increase public and private sector investments in energy efficiency in buildings. The project will achieve this by 1) overcoming the risk barriers in the financial markets inhibiting commercial bank participation in energy efficiency project financing; 2) demonstrating the feasibility of packaged investments in higher-cost energy efficiency measures in buildings and increasing acceptance of energy performance contracting mechanisms in Poland; 3) stimulating the demand for energy efficiency services in the buildings sector and increasing awareness and capacity of commercial banks to originate and implement loan transactions for EE investments.	10/14/2004	11.0	6/30/2011	P. Johansen

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142 Poland	<b>Second Roads Maintenance and Rehabilitation (P088824)</b>	The current program will continue to support the Government's five-year (2002-2005) development program of the national road network, originally estimated to cost PLN36.8 billion (about US\$9 billion) The 2004 – 2005 program supported by the Roads Maintenance and Rehabilitation (RM&R) project has contributed to the improvement of about 9% of the national road network. There is further need to accelerate the program to benefit Polish society, and to comply with the EU standards. The program will further improve the effectiveness of Poland's national road rehabilitation and maintenance systems, particularly dimensions of quality, efficiency, road safety, financial viability, and road user satisfaction.	3/29/2005	130.5	12/31/2007	A. Schliessler
143 Poland	<b>Third Roads Maintenance and Rehabilitation (P096214)</b>	The project will continue improving the effectiveness of Poland's national road rehabilitation and maintenance systems, with emphasis on quality, efficiency, financial viability, safety, and road user satisfaction.	6/06/2006	180.2	9/15/2011	A. Schliessler
144 Poland	<b>Szczecin-Swingoujscie Seaway and Port (P008615)</b>	The project includes components under the direct management of the port authority of Szczecin (SSSA) such as rehabilitation of physical facilities, internal road circulation networks, as well as components aiming at improving navigation safety and protection of maritime port accesses, managed by the Maritime Office of Szczecin (MOS). The objectives are split into two categories: (i) promote economic growth in the Szczecin-Swinoujscie region through improved maritime access; and (ii) facilitate private sector involvement in port operations in Szczecin.	12/12/2000	38.5	6/30/2008	M. Audige
145 Poland	<b>Post-Accession Rural Support (P065270)</b>	The project has the following development objectives: (i) to increase social inclusion in rural to underdeveloped gminas by enhancing the capacity of local governments to identify, plan, and execute social protection strategies through a social inclusion program (SIF); and, (ii) to support rural pension reform by enhancing the efficiency of the pension agency, through strengthening its administrative and analytic capacity and improving its management and decision-making process.	1/24/2006	88.8	12/31/2009	J. Pakulski
146 Poland	<b>Road Maintenance &amp; Rehabilitation (P078170)</b>	The overarching objective of the proposed adjustment operation is to assist Government in upgrading and developing its road network, in readiness for EU accession, without creating an excessive fiscal burden. This would be achieved by: (i) developing institutions capable of enhancing the quality of financial planning and management of the network, to optimize the use of scarce resources through an appropriate mix of maintenance, rehabilitation and new construction; and (ii) mobilizing additional revenues from road users to finance a realistic and economically justified road development program.	126.0	3/30/2004	12/31/2008	A. Schliessler

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147 Poland	Odra River Flood Basin Protection (P086768)	The main development objective of the Project is to protect the population in the Odra River Basin against loss of life and damage to property caused by severe flooding. This would be achieved by (i) reducing the extreme flood peaks through storage in a dry polder on the Odra River just upstream of Raciborz town, enabling a reduction of the flood peak downstream of the reservoir and allowing better control of the operation of the river system; and (ii) by increasing the flood carrying capacity of the Odra River channels through and around Wroclaw.	3/21/07	184.0	11/30/2014	M. Ahmad
148 Romania	Municipal Services (P088252)	The objective of the project is to assist Romania to meet EU environmental directives in the water and wastewater sector. This objective will be met through: a) the support of infrastructure development in the municipalities of Bucharest and Arad to provide better water and wastewater service and improve storm water management; and b) preparation of priority water and wastewater projects in 11 counties.	7/13/2006	133.7	5/30/2011	S. Sarkar
149 Romania	Electricity Market (P081406)	The project development objective is develop a well-functioning wholesale electricity market with the aim of: (i) putting in place a transparent and predictable commercial and regulatory framework and a power exchange that will facilitate electricity trading within a national, regional and eventually within the competitive European markets; and (ii) improving the efficiency and reliability of the transmission system in order to supply electricity at least cost to consumers. A well-functioning wholesale electricity market is an integral component of Romania's strategy to attract and sustain private sector participation in power sector renewal, especially for the refurbishment of power distribution and generation assets, and to develop a more efficient and increasingly competitive power sector.	6/30/2003	82.0	6/30/2008	D. Visa
150 Romania	Energy Efficiency (GEF) (P068062)	The objective of the project is to foster a large increase in energy efficiency investments through development of self sustaining, market- based mechanisms. Those investments would reduce greenhouse gas emissions associated with energy use.	9/19/2002	10.0	12/31/2007	V. Atur
151 Romania	Transport Restructuring (P083620)	The project aims to improve the efficiency of the railways and roads sectors, and thereby reduce the overall costs of transportation.	11/16/2004	225.0	7/31/2009	H. Kerali
152 Romania	Banat & Dobrogea Electricity Distribution Privatization Partial Risk Guarantee (P089568)	The objective of the proposed PRG is to support Romania's energy sector privatization program by enabling the Government of Romania and Enel S.p.A. of Italy (Enel), to implement their Privatization Agreements for the Banat and Dobrogea Electricity Distribution Companies (the Discoms) under the new regulatory framework for electricity distribution.	12/21/2004	76.7	01/12/2012	K. Nyman

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153 Romania	<b>Energy Community of South East Europe—APL (P086694)</b>	The key objectives of the Energy Community of South East Europe (ECSEE) are: create a stable regulatory and market framework capable of attracting investment to the region in gas networks and power system so that all states in the region have access to the stable and continuous energy supply that is essential for economic development and social stability; establish integrated regional markets in South East Europe, closely linked to the internal energy market of the European Union, and fully complying with the rules applicable within the European Union; enhance the energy security of supply of South East Europe and the European Union by providing incentives to connect the Balkans to Caspian and North African gas reserves; and improve the environmental situation in relation to energy in the region.	1/27/2005	84.3	6/30/2010	K. Nyman
154 Romania	<b>Forest Development (P067367)</b>	The project objective is to maintain and improve environmentally sustainable management of state and private forests so as to increase the contribution to the national and rural economies derived from Romanian forest resources.	12/19/2002	25.0	6/30/2009	P. Dewees
155 Romania	<b>Hazard Risk Mitigation &amp; Emergency Preparedness (P075163)</b>	The overall project objective is to reduce the environmental, social, and economic vulnerability to natural disasters and catastrophic mining accidental spills of pollutants through: (i) strengthening the institutional and technical capacity for disaster management and emergency response through upgrading communication and information systems; (ii) implementing specific risk reduction investments for floods, landslides and earthquakes; (iii) improving the safety of selected water-retention dams; and (iv) improving on a pilot basis the management and safety of tailings dams and waste dump facilities.	5/20/2004	150.0	12/31/2009	G. Ionita
156 Romania	<b>Hazard Risk Mitigation &amp; Emergency Preparedness GEF (P081950)</b>	The project global environmental objective is to demonstrate and provide for replication for the reduction of catastrophic accidental spills of transboundary pollution loads from mine operations flowing into the Danube and Black Sea basins.	5/20/2004	7.0	12/31/2009	L. Azevedo
157 Romania	<b>Irrigation Rehabilitation &amp; Reform (P043881)</b>	The primary project objectives are to: (i) achieve more economic use of irrigation through changes in farmers' and the Land Reclamation Agency's (LRA's) behavior, and (ii) increase agricultural productivity in the project area.	7/31/2003	80.0	3/31/2011	G. Ionita
158 Romania	<b>Mine Closure, Environment &amp; Socio-Economic Regeneration (P087807)</b>	The project objective is to strengthen the Government's ability to undertake mining sector reform by (i) strengthening capacity for closing uneconomic mining enterprises through support building for closing complex mines and ancillary enterprises in an environmentally sustainable manner; and(ii) providing support to the National Agency for Development and Implementation of Reconstruction Programs for the Mining Regions (AZM), local communities and other agencies for community-based planning and socio-economic regeneration of the mining regions.	12/16/2004	120.0	5/31/2010	M. Woodward

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159 Romania	Rural Development (APL #1) (P057960)	The project development objective is to strengthen the institutional capacity of local administration, community/user groups and private service providers: (a) to plan, implement, operate and maintain small infrastructure investments in a participatory and accountable manner; and (b) to increase the access of rural inhabitants in pilot areas to markets and social services (through road rehabilitation investment grants), and improved water and sanitation (through water/ sanitation investment grants).	3/19/2002	40.0	9/30/2007	K. Shepardson
160 Romania	Modernizing Agricultural Knowledge & Information Systems (P086949)	The project objective is to improve the competitiveness of farmers and agro-processors in the EU accession environment. This will be achieved through: (i) strengthened National Authority for Sanitary, Veterinary and Food Safety and better implementation of measures for inspection control, risk management and communication in food safety matters; (ii) modernized and strengthened national research and extension system to provide staff in the food safety agency as well as within the research and extension organizations with necessary agricultural knowledge, skills, and technology facilities; (iii) improved technology development and advisory services to ensure access to relevant information and technology by the farming community; and (iv) increased access of farmers and processors to knowledge of technologies related to production, quality control, food safety, processing and marketing in order to meet EU requirements.	11/16/2004	50.0	9/30/2010	D. Petrescu
161 Romania	Rural Finance Project (APL #1) (P056891)	The project seeks to promote economic growth and reduce poverty in rural Romania through the provision of financial services. In pursuing this objective, the project will assist in (a) accelerating the economic transformation of the rural economy by increasing the flow of investment capital to the sector, (b) augmenting the role of the private sector in the rural economy by (i) improving access, on the part of rural households with entrepreneurial activities and private enterprises, to financial services and by (ii) helping regulated private financial intermediaries to augment their presence in rural localities and in filling the vacuum that may ensue after the privatization of state banks and the likely closing of a significant portion of the existing network of rural branches; (c) facilitating accession to the European Union (EU) by assisting the rural economy to absorb the grants that will be allocated under the EU's Special Accession Program for Agriculture and Rural Development (SAPARD) by making available counterpart funding for the private investments that will be financed by this program, and (d) alleviating rural poverty by financing farm and off-farm investments for poor segments of the rural population which currently have no access to credit. The project also seeks to improve the legal and institutional environment for financial transactions to reduce the costs and risks assumed by lenders when allocating rural credit especially to the relatively poorer segments of the population.	3/29/2001	80.0	7/31/2007	P.O. Colleye

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162 Romania	<b>Avian Influenza Control and Human Pandemic Preparedness and Response (P100470)</b>	The project will support and constitute an integral part of a national program to increase Romania's avian and human influenza preparedness, i.e. the country's capacity to prevent and control the spread of influenza among animals and humans. In this context, the overall development objective of the project is to reduce the threat posed to humans and the poultry sector in Romania by HPAI and other zoonoses, and to support the preparation for, control of, and response to influenza pandemics and other infectious disease emergencies in humans. To achieve this, the project will support activities in the three areas of prevention, preparedness and contingency planning, response and containment under the four components: (i) animal health; (ii) human health; (iii) public awareness and communications; and (iv) implementation support, monitoring and evaluation.	09/08/2006	37.7	12/31/2009	M. Grueninger
163 Romania	<b>Transport Sector Support (P09312)</b>	The Transport Sector Support Project for Romania will assist the borrower to reduce transport costs through the improvement of the overall quality of its national roads and railways networks during the first years of European Union accession. The project consists of the following components: Component A: will support Romania National Company for Motorways and National Roads (RNCMNR's) Infrastructure Maintenance Program which includes periodic maintenance and current repairs works on national roads, as well as technical assistance to RNCMNR. Component B: will support Romania National Railway Company (CFR's) Infrastructure Maintenance Program which includes maintenance, current and periodic repair and overhaul of interoperable railway lines, and technical assistance to CFR.	11/2/2006	180.0	12/31/2008	H. Kerali
164 Russia	<b>Moscow Urban Transport (P046061)</b>	The principal project objective is to improve the institutional capacity of the city of Moscow to plan, design, implement, operate and enforce traffic management measures so as to improve surface transport mobility in Moscow.	2/6/2001	60.0	12/31/2008	M. Audige
165 Russia	<b>Municipal Heating (P038551)</b>	The overall objective of the Municipal Heating Project is to alleviate the financial burden on municipal governments associated with the supply of district heating to the local population by: (i) improving the operating efficiency of district heating systems through investments to save energy and reduce heat losses; (ii) promoting sound cost recovery policies and commercial practices; and (iii) supporting government efforts to improve the cost-effectiveness of subsidy programs through better targeting and delivery of subsidies to low-income households.	3/27/2001	85.0	12/31/2007	K. Shankar
166 Russia	<b>Municipal Water and Wastewater (P008832)</b>	The objective of the project is to arrest the decline of water and wastewater services of fourteen medium-size cities (less than 500,000 inhabitants) located in different regions of Russia that have demonstrated their commitment to the project objectives and the institutional reforms necessary to achieve them.	12/31/2000	122.5	12/31/2007	K. Shankar

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167	Russia	<b>St. Petersburg Economic Development (P069063)</b>	The proposed project is a continuation of activities initiated under the St. Petersburg Center City Rehabilitation Project (Ln. 4144-RU). The aim of the proposed project is to support the City in its efforts to achieve the main development goals outlined in the 1998 'Strategic Plan for St. Petersburg', namely: "establishment of a favorable business climate, integration into the world economy, improvement of the urban environment, and creation of a favorable social environment", enhance its competitiveness, and make full use of its potential for future growth as an economic and cultural center.	6/1/2003	161.1	8/31/2009	G. Sargsyan
168	Russia	<b>Registration (P093050)</b>	The project will support on-going reforms of the registration system of rights in immovable property in Russia through improving procedures and the information flow from the registry to users with a development objective to facilitate the development of real property markets, improve the quality of services provided, and strengthen the linkages with other organizations dealing with real property. These other organizations will include the Federal Cadastre Agency, the Tax Authorities, municipal government, and representatives of the private sector, such as notaries and real estate brokers.	6/13/2006	50.0	5/31/2013	S. Suleymanov
169	Russia	<b>Cadastre Development (P078420)</b>	The project development objective is to improve the information flow and rationalize normative and operational procedures for the Unified State Cadastre of Immovable Property so as to facilitate development of real property markets, improve the quality of services provided by the offices of the Cadastre Agency, and strengthen linkages with other organizations.	7/5/2005	100.0	6/30/2010	W. Zakout
170	Russia	<b>Hydrometeorological System Modernization (P082239)</b>	The main development objective of the project is to increase the accuracy of forecasts provided to the Russian people and economy by modernizing key elements of RosHydromet's technical base and strengthening its institutional arrangements. This would enable enterprise and household adjustments to protect lives and support economic growth.	3/17/2005	80.0	9/30/2010	V. Tsirkunov
17	Russia	<b>Environmental Management Project (P008821)</b>	The main objectives of the project are to: (i) strengthen and streamline federal and regional institutional structures for environmental and natural resource management; (ii) improve federal and regional environmental policy and strategy formulation and implementation; (iii) upgrade environmental and natural resource management systems; (iv) assist in the financing of economically viable, high priority resource recovery/pollution abatement projects in the country; and (v) facilitate the flow of donor funds and resources to the environmental protection sector.	11/8/1994	110.0	12/31/2007	V. Tsirkunov
172	Russia	<b>Sustainable Forestry Pilot Project (P053830)</b>	The project objective is to: (i) improve public sector management of Russia's forests, a key natural resource in three pilot regions through policy reform, improved land-use management, protection and regeneration; (ii) have an improved enabling environment for private sector investment in forest utilization through training in processing and business practices and demonstration in improved technologies; (iii) replicate policy reforms and improve forest management to other regions.	5/23/2000	60.0	9/30/2007	A. Kushlin

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
173 Serbia	<b>Danube River Enterprise Pollution Reduction GEF (P084604)</b>	The development objective of the project is that EU acquis compliant measures for reducing agricultural nutrient pollution in the Danube River are adopted in selected enterprises. The global environment objective of the project is to reduce nutrient flows into water bodies connected to the Danube River from selected enterprises.	5/12/2005	9.0	3/31/2010	T. Arin
174 Serbia	<b>Irrigation &amp; Drainage Rehabilitation (P087964)</b>	The project's main objectives are to: (a) improve the capacity for increased efficiency of agricultural production through support to high priority rehabilitation of drainage and irrigation infrastructure; (b) reduce the risk of damage from flooding to land, crops, property, infrastructure as well as reducing risk of life loss from flooding in project areas; and (c) improve water resources management and strengthen the associated water resource management institutions and policies.	7/12/2005	25.0	5/31/2011	U. El-Hanbali
175 Serbia	<b>Real Estate Cadastre &amp; Registration (P078311)</b>	The project objective is to increase investor confidence, and lower transaction costs in the building industry, and promote an efficient property registration and cadastre system that contributes to the development of effective real property markets. To this end, the project will support both operational tasks, and improvement of the real estate cadastre (REC), as well as institutional development for the Republic Geodetic Authority (RGZ), through two main components. The operational development and support component, will help speed RGZ's completion and maintenance of the REC to deliver quality services.	5/24/2004	30.0	10/31/2010	G. Adlington
176 Serbia	<b>Serbia Energy Efficiency (P075343)</b>	The project objective is to reduce the relative cost of clean energy use for heat in Serbia. Successfully achieving this objective would also address the Millennium Development Goal Target #9 of integrating the principles of sustainable development into country policies and programmes and reverse the losses of environmental resources.	3/16/2004	21.0	4/30/2010	V. Atur
177 Serbia	<b>Serbia Transport Rehabilitation (P075207)</b>	The main project objective is to increase the efficiency of the transport sector and to improve transport sector governance in Serbia.	5/25/2004	55.0	6/30/2011	R.M. Humphreys
178 Serbia	<b>Transitional Agricultural Reform Project (P094212)</b>	The Transitional Agriculture Reform Project development objective is to enhance the competitiveness of Serbian agriculture. The global environmental objective is to conserve the globally important ecosystem in the Stara Planina mountainous area. The project objectives will be achieved through a series of strategic public investments that aim to: (i) improve and strengthen the Government of Serbia system for transparently delivering rural development investment grants and evaluating their impact; (ii) improve the knowledge and capacity of agricultural producers and processors to make the best use of these funds; and (iii) improve management of the Stara Planina Nature Park, including its flora and autochthonous livestock breeds, in partnership with local communities and other stakeholders.	6/20/2007	17.0	12/31/2011	N. Aleksandar



COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
179 Serbia	<b>Transitional Agricultural Reform Project (P093545) (GEF)</b>	The objective of the proposed project would be to support the conservation of the globally important eco-system of the Stara Planina Nature Park and the endemic endangered flora and fauna species it harbors by promoting traditional sustainable and biodiversity-sensitive agricultural practices. To achieve this objective the project would (i) support policy development and planning for agro-biodiversity conservation; (ii) develop incentives for in situ agro-biodiversity conservation; (iii) build institutional capacity; and (iv) raise public awareness.	6/20/2007	4.5	12/31/2011	A. Nacev
180 Serbia	<b>Energy Community of South East Europe—APL 2—Serbia (P088867)</b>	The project would provide investment support and technical assistance for Serbia, and complement the donor assistance for creation and institutional development of TSMO and the regulatory agency—obligations Serbia has to fulfill under Athens Memorandum. The objective of the project is to improve electricity market access for consumers and suppliers through increase in the quantity, quality, reliability, safety and efficiency of the bulk power transmission system.	6/30/2005	21.0	2/28/2010	V. Atur
181 Tajikistan	<b>Dushanbe Water Supply (P057883)</b>	The project will finance: (i) the emergency repair of, and/or rehabilitation works for, the water treatment plant and the water distribution network; (ii) a demand management program; (iii) installation and operation of an appropriate commercial and financial management system; and (iv) a management contract. The project will also finance the operating costs for the project coordination unit, technical studies, technical and financial audits, supervision of construction and refinancing of a PPF.	6/18/2002	17.0	6/30/2008	J. Kamkwalala
182 Tajikistan	<b>Pamir Private Power (P075256)</b>	The objective of the Project is, through private sector involvement, to improve the reliability and enhance quantity of supply of electricity in the Gorno Badakshan Autonomous Oblast (GBO) region in a financially, environmentally and socially sustainable way.	6/27/2002	10.0	12/31/2007	R. Sharma
183 Tajikistan	<b>Energy Loss Reduction (P089244)</b>	The objectives of the project are to assist in reducing the commercial losses in the electricity and gas systems, and to lay the foundation for the improvement of the financial viability of the electricity and gas utilities in a socially responsible manner.	6/30/2005	15.0	6/30/2012	R. Sharma
184 Tajikistan	<b>Municipal Infrastructure (P079027)</b>	The development objective of the project is to improve the availability, quality and efficiency of delivery of basic municipal services to the population of the eight towns which participate in the project. This objective will be achieved by financing three project components: (a) the rehabilitation and repair of basic infrastructure and installations and/or the replacement of equipment of Khochagii Manziliu Kommunalni (formerly known as Tajikkomunservis) (KMK) local subsidiary utility enterprises, (b) assistance to the KMK and its local subsidiary utility enterprises in improving their management capacity for the delivery of basic municipal services; and (c) implementation of project activities.	1/19/2006	15.0	8/31/2011	J. Kamkwalala

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
185 Tajikistan	<b>Ferghana Valley Water Resources Management (P084035)</b>	The project objectives are (i) to improve the capacity for increased irrigated agriculture productivity in the Ferghana Valley by improving land and water management, and (ii) to improve safety and regulation of the Kayrakum Dam and Reservoir, thereby contributing to enhanced water management security and efficiency at the basin level.	7/26/2005	13.0	5/31/2011	U. El-Hanbali
186 Tajikistan	<b>Land Registration &amp; Cadastre System for Sustainable Agriculture (P089566)</b>	The project objective is to expand farm privatization through a repeater project to enable more rural people to become independent farmers and take management decisions in response to market forces, by providing them secure land use rights certificates distributed in a transparent and fair manner, and providing essential complementary support services.	4/21/2005	10.0	9/30/2010	J. Mott
187 Tajikistan	<b>Community Agriculture &amp; Watershed Management (P077454)</b>	The project objective is to build the productive assets of rural communities in selected mountain watersheds, to increase sustainable productivity, and curtail the degradation of fragile lands, and ecosystems.	6/15/2004	10.8	4/30/2011	J. Mott
188 Tajikistan	<b>Community Agriculture &amp; Watershed Management GEF (P081159)</b>	The global environmental objective will entail protection of globally significant mountain ecosystems by mainstreaming sustainable land use and biodiversity conservation considerations within agricultural and associated rural investment decisions. This integrated management approach will also provide replicable models for comparable areas throughout the country.	6/15/2004	4.5	4/30/2011	J. Mott
189 Tajikistan	<b>Rural Infrastructure Rehabilitation (P058898)</b>	The project's main objectives are: (i) to increase water supply and efficiency in the main and secondary irrigation canals supplying the farms being privatized under the Farm Privatization Support Project and adjoining farms; (ii) to develop institutional capability in land and water resources management; and (iii) to improve the quality of drinking water in selected villages.	6/22/2000	20.0	8/31/2007	U. El-Hanbali
190 Tajikistan	<b>Avian Influenza and Human Pandemic Preparedness and Response (P100451)</b>	The project development objective is to minimize the threat HPAI infection and other zoonoses pose to humans and the poultry industry in Tajikistan, and to prepare for, control and respond to influenza pandemics and other infectious disease emergencies in humans. The project will focus on three main areas: (i) preparedness and planning, (ii) prevention through public awareness and surveillance, and (iii) response and containment in case of an outbreak.	6/29/2006	5.0	12/1/2009	B. Yatimov
191 Tajikistan	<b>Cotton Sector Recovery (P098889)</b>	The objective of the Cotton Sector Recovery and Poverty Reduction Project is to improve the livelihood of cotton farmers and create the conditions for sustainable growth of cotton production in selected, low income areas of Tajikistan, through debt resolution, an improved policy environment, and increased cotton output and profitability.	5/30/2007	15.0	3/31/2013	B. Shamsiev
192 Tajikistan	<b>Dashtidzhum Biodiversity Conservation GEF (P082599)</b>	The global environmental objective is to demonstrate and provide for replication of in-situ conservation of globally significant biodiversity of the Dashtidzhum Zakaznik.	8/2/2004	1.0	11/30/2007	B. Yatimov

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
193 Turkey	<b>National Transmission Grid (P048852)</b>	The objectives of the project are to assist the Republic of Turkey to: (a) develop adequate transmission grid capacity in a timely and environmentally sustainable manner; (b) continue the reform of the power sector by establishing the independent operation of the transmission grid system; and (c) maintain the financial viability of the state institution responsible for the grid development operation.	6/11/1998	249.2	12/31/2007	S. Shukla
194 Turkey	<b>Renewable Energy (P072480)</b>	The objective of this project is to increase privately owned and operated distributed power generation from renewable sources ("qualified renewable power generation projects") in the Turkish Electricity Market.	3/25/2004	201.0	6/30/2010	G. Ozdora
195 Turkey	<b>Municipal Services (P081880)</b>	The objective of the project is to support sustainable environmental services in selected municipalities.	6/23/2005	275.0	6/30/2010	S. Manghee
196 Turkey	<b>Railways Restructuring (P077328)</b>	The overall objective of the project is to improve the financial viability, productivity, and effectiveness of railway operations.	6/09/2005	184.7	9/30/2009	M. Lawrence
197 Turkey	<b>Energy Community of South East Europe— APL 2 (P094176)</b>	The objective of the project is to support the implementation of the investment programs of TEIAS, including: (a) creation of a market management system for the management of the electricity market; (b) strengthening supervisory control and data acquisition energy management system to enable TEIAS to operate more efficiently; and (c) provision of transmission grid strengthening and expansion for overall stability.	4/01/2005	66.0	12/31/2010	S. Shukla
198 Turkey	<b>Energy Community of South East Europe— APL 3 (P096400)</b>	The Türkiye Elektrik İletim As—Energy Community of South East Europe Program for Turkey aims at strengthening and expanding the transmission network to reliably meet the growing electricity demand; and upgrading the transmission network in dense urban areas to minimize the risk to public safety posed by urban encroachment on existing overhead lines.	3/23/2006	150.0	6/30/2011	S. Shukla
199 Turkey	<b>Electricity Generation Rehabilitation and Restructuring (P085561)</b>	The Electricity Generation Rehabilitation and Restructuring Project for Turkey will improve supply security during the reform transition and restructure the state-owned generation business into corporatized entities.	6/06/2006	151.7.0	12/31/2011	S. Shukla
200 Turkey	<b>Gas Sector Development (P093765)</b>	The project objective is to increase the reliability and stability of gas supply in Turkey by implementing critically needed gas storage and network infrastructure, and support Turkish Pipeline Company (BOTAS) in strengthening its operations as a financially stable and commercially managed corporation.	11/29/2005	325.0	12/31/2012	S. Shukla

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
201 Turkey	<b>Biodiversity &amp; Natural Resource Management GEF (P044175)</b>	The project's global objective is to sustainably conserve the biological diversity and ecological integrity of selected forest, wetland, steppe and alpine ecosystems that are representative of Turkey's four major bio-geographical zones, which include the Black Sea and Caucasian mountain region, the Central Anatolian plateau, and the European and Mediterranean regions. The project's development objective is to establish effective intersectoral, participatory planning and sustainable management of protected areas and natural resources at four selected biodiversity conservation demonstration sites and build capacity at the national level to facilitate replication of these activities at priority conservation sites throughout Turkey.	6/13/2000	8.2	12/31/2007	P. Dewees
202 Turkey	<b>Agricultural Reform Implementation (P070286)</b>	The primary development objective is to help implement the Government's agricultural reform program, which is aimed at dramatically reducing artificial incentives and government subsidies, and substituting a support system that will give agricultural producers and agro-industry incentives to increase productivity in response to real comparative advantage.	7/12/2001	600.0	12/31/2008	H. Kray
203 Turkey	<b>Anatolia Watershed Rehabilitation (P070950)</b>	The project's overall development objective is to support sustainable natural resource management practices in 28 micro-catchments in Anatolia and Turkey's Black Sea Region and thereby raise incomes of communities affected by resource degradation.	6/1/2004	15.7	6/30/2012	P. Dewees
204 Turkey	<b>Anatolia Watershed Rehabilitation GEF (P075094)</b>	The key global environment objective is to introduce farming practices which will reduce the discharge of agricultural nutrients into surface and ground water in watersheds draining into the Black Sea in four provinces.	6/1/2004	7.0	6/30/2012	P. Dewees
205 Turkey	<b>Seismic Risk Mitigation (P078359)</b>	The project will initiate a process that aims at transforming Istanbul in the next 10–20 years into a city resilient to major earthquake. The overall goal of the proposed project is to save lives and reduce the social, economic and financial impacts in the event of future earthquakes. The specific objective of the project is to improve the city of Istanbul's preparedness for a potential earthquake through enhancing the institutional and technical capacity for disaster management and emergency response, strengthening critical public facilities for earthquake resistance, and supporting measures for better enforcement of building codes and land use plans.	5/26/2005	400.0	9/30/2010	W. Zakout
206 Turkey	<b>Avian Influenza &amp; Human Pandemic Preparedness &amp; Response (P096262)</b>	The project aims to minimize the threat in Turkey posed to humans by the highly pathogenic avian influenza infection and other zoonoses in domestic poultry and prepare for the control and response to an influenza pandemic and other infectious disease emergencies in humans. To achieve this, three areas will be supported: (i) prevention, (ii) preparedness and planning and (iii) response and containment. Achieving these goals will contribute to diminishing the burden of disease and loss of productivity in Turkey, limiting the regional spread of AI, and enhancing economic and social prospects at the national, regional, and global levels.	4/24/2006	34.4	11/30/2010	H. Agah

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
207 Turkey	<b>Electricity Distribution Rehabilitation (P096801)</b>	The objective of the Electricity Distribution Rehabilitation Project of Turkey is to help improve the reliability of power supply to consumers in Turkey by supporting the implementation of the electricity distribution network rehabilitation and expansion program.	4/19/2007	269.4	12/31/2012	S. Shukla
208 Turkey	<b>Istanbul Municipal Infrastructure (P100383)</b>	The objectives of the Istanbul Municipal Infrastructure Project (IPIP) in Turkey are to assist the Istanbul Metropolitan Municipality in: (i) improving its solid waste management; and (ii) improving its capacity to mitigate earthquakes by retrofitting key facilities and infrastructure and upgrading the institutions and their procedures to help them respond to emergencies.	6/28/2007	322.1	12/31/2011	S. Manghee
209 Ukraine	<b>Lviv Water/Waste Water (P035786)</b>	The project will help to improve the accessibility and quality of water supply and wastewater services in the city of Lviv. The project seeks to: (i) support high-priority investments needed to improve the operation of the water supply and wastewater systems, reduce operating costs and improve service quality at affordable prices to the population; and (ii) enable institutional strengthening of Lviv Vodokanal, the municipal enterprise responsible for water supply and wastewater services in Lviv, through the improvement of its technical, commercial and financial operations with the help of technical assistance.	6/6/2001	24.3	12/31/2007	S. Manghee
210 Ukraine	<b>Hydropower Rehabilitation (P083702)</b>	The main objective of the Hydropower Rehabilitation Project is to improve operational stability and reliability of power supply by increasing regulating capacity, efficiency and safety of hydroelectric plants, and, therefore, facilitate unimpeded operation and opening up of the electricity market. Additional objective is to support the Ministry of Fuel and Energy and NERC in preparing and implementing the Energy Sector Reform and Development Program, including the Wholesale Electricity Market concept.	6/21/2005	106.0	6/30/2012	D. Ostojic
211 Ukraine	<b>Rural Land Titling &amp; Cadastre Development (P035777)</b>	The objective of this project is to establish a national cadastre and title registry system, allocate land parcels to individuals in rural areas on an equitable basis, establish their property rights by issuing state deeds for land, and encourage the restructuring of farms into more efficient units, with due consideration for environmental and social safeguards.	6/24/2003	195.1	6/30/2012	G. Adlington
212 Uzbekistan	<b>Bukhara/Samarkand Water Supply (P049621)</b>	The project will support the rehabilitation of the water supply system in Bukhara and Samarkand.	3/19/2002	40.0	6/30/2009	Y. Katakura

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES / DESCRIPTION	BOARD APPROVAL DATE	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	CLOSING DATE	PROJECT TEAM LEADER
213 Uzbekistan	Rural Water Supply and Sanitation (P009121)	The main objectives of the project are to: (i) improve the water supply, sanitation and health of the population of Karakalpakstan and Khorezm Oblast; (ii) strengthen the institutional capacity for management, operation and financial performance of the regional water supply and sanitation utilities as well as the Health Centers and the Sanitary Epidemiological Stations; and (iii) increase efficiency of project institutions.	8/21/1997	73.3	12/31/2007	Y. Katakura
214 Uzbekistan	Drainage, Irrigation & Wetlands Improvement—Phase 1 (P009127)	The main development objectives of the project are to: (a) increase productivity of irrigated agriculture, employment and incomes in Karakalpakstan, one of the poorest regions in Central Asia; (b) improve the water quality of the Amu Darya river by the safe disposal of the drainage effluent, and enhance the quality of wetlands in the Amu Darya delta; and (c) development of institutions for improving water management, operation and maintenance (O&M) of the irrigation and drainage systems, and for promoting sustainable irrigated agriculture through participatory irrigation management.	6/19/2003	61.3	6/30/2010	M. Wasiq
215 Uzbekistan	Rural Enterprise Support (P046043)	The project objective aims to increase the profitability and sustainability of agriculture through the privatization and restructuring of farming and associated agribusiness activities. The project, extending over four years, focuses on initiating post-restructuring technical and financial support to qualifying newly constituted private farms and agribusiness units in five selected Tumans.	12/20/2001	36.1	12/31/2007	M. Guadagni
216 World	International Assessment of Agricultural Science & Technology for Development GEF (P090963)	The project is to improve access to agricultural knowledge, science and technology that will promote and facilitate sustainable agricultural practices with the aim to improve nutritional security, enhance rural livelihoods while reversing environmental degradation, redressing social and gender inequity, and ensuring human health and well-being.	3/29/2006	3.0	12/31/2007	P. Jansen

\*Carbon Fund (CF) projects under implementation are not listed. For information on these projects, see CF website: <http://carbonfinance.org>

APL—Adjustable Program Loan

GEF—Global Environment Facility

LIL—Learning and Innovation Loan

LIC—Learning and Innovation Credit

CF—Carbon Fund

FY—fiscal year. Example: FY08 covers July 1, 2007 to June 30, 2008

## PROJECTS UNDER PREPARATION<sup>2</sup>

	COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION	PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
1.	Albania	Energy Community of South East Europe APL 5 (P101806)	This will be the second ECSEE APL for Albania. At this stage, the project is not defined but a major component is likely to be upgrading of safety aspects of the major hydropower dams in Albania and related rehabilitation. The project is likely to involve significant cofinancing.	4/25/2008	20.0	D. Papatthanas
2.	Albania	Secondary and Local Roads (P107833)	The Project Development Objective is to improve access for the rural population to regional markets, health and education facilities, whilst also establishing a sustainable framework for the management and financing of the secondary and local road network.	6/5/2008	15.0	M. Humphreys
3.	Armenia	GeoFund II GEF (P094207)	The objective of the project is to systematically promote the use of geothermal energy in the ECA region.	2/15/2008	5.0	H. Schreiber
4.	Armenia	Traffic Management and Safety (P100665)	The project objective is to improve traffic management in main cities and traffic safety throughout Armenia through (a) traffic management measures to improve traffic flow on existing streets, (b) measures to improve traffic safety, (c) passenger transport reforms to adapt public transport services to the rapidly changing traffic situation, and (d) institutional adjustments and strengthening to permit government to better respond to this emerging transport challenge.	4/7/2008	20.0	M. Lawrence
5.	Armenia	Railways Restructuring (P104433)	The proposed lending will provide the conditions for successful concessioning of Armenia's rail operations by putting the concessioning framework into action through: (1) Consultancy to assist the Government to implement the concession. (2) Funding for (a) compensation package for excess labor, (b) rehabilitation of very long-life infrastructure (e.g., bridges), and (c) other immediate rehabilitation needs.	9/29/2008	10.0	M. Lawrence
6.	Armenia	Irrigation Development Additional Financing (P105171)	This additional financing of the Irrigation Development Project (IDP) is, as IDP itself, part of an on-going national program supporting the rehabilitation and restructuring of the irrigation system. Implementation of this program was initiated under the Irrigation Rehabilitation Project (with financial support from IDA and IFAD) and the IFAD supported North West Agricultural Services Project. IDP was designed to build on the achievements under the preceding interventions. It aims to enhance the profitability and sustainability of irrigated agriculture through improved efficiency and reliability of the irrigation water supply system	7/31/2007	5.0	G. Fantozzi

2. Data as of June 30, 2007

	COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION	PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
7.	Azerbaijan	Third Highway (P094488)	<p>This project is designed as a follow up loan of Highway 2 Project (P094488). Two additional tranches are foreseen: Highway 3 and Highway 4.</p> <p>The main project development objective is to reduce road transport costs and improve access, transit and road safety within Azerbaijan's main corridors, through upgrading some sections of the following roads: (a) reconstruction of Shamaxi-Yevlax (M4), (b) upgrading to four lanes of Ganja-Qazax (M2), (c) reconstruction of Hacıqabul to Armenia border (M6), and (d) completion of the upgrade to four lanes of Alat-Masalli (M3) started under Highway 2.</p> <p>For road users, the project would lead to better road quality and level of serviceability, avoiding or deferring costly congestions expected on the basis of mid-term traffic projections, better road safety through new alignments and city bypasses, avoiding hazardous crossing of urban areas by heavy transit traffic, and savings derived from shorter travel times.</p>	4/29/2008	150.0	O. Le Ber
8.	Azerbaijan	Fourth Highway (P100668)	See Third Highway (P094488) above.	12/18/2008	100.0	O. Le Ber
9.	Azerbaijan	Rail Trade and Transport Facilitation (P083108)	The proposed project objective is to improve the competitiveness, commercial orientation and efficiency of ADDY to capture increasing oil transit and trade flows and increase its profitability. The project will support the first phase of railway modernization (3-4 years).	2/5/2008	80.0	G. Ollivier
10.	Azerbaijan	Power Transmission PCF (P093483)	Investment in a SCADA system for the Azerbaijan power transmission system will optimize the use of thermal and hydro power plants. Thermal fuel use, and thus emissions, is in the base case estimated to be reduced by about 2%. The investment may also cause effective power output from a hydropower cascade to increase, potentially adding more than 1% of additional thermal fuel and emissions reductions.	11/15/2007	8.0	B. Hamso
11.	Azerbaijan	Flared Gas Utilization from Guneshli Field (P092817)	The objective of the project is provide an incentive to private sector to invest in utilization of an associated gas from Deep-Waters Guneshli off-shore oil field, and to ensure that gas processing and distribution are carried out in way that maximizes the potential for gas replacement of heavy oil uses in local industry, power generation, municipal service, and household.	10/02/2007	37.0	S. Suleymanov
12.	Azerbaijan	Baku Urban Transport Project (P103270)	The main project development objective is to reduce transportation time and improve traffic access and safety within the Baku metropolitan area, through implementation of traffic management measures, improvement of parking conditions, improvement of the concessioning of passenger transport services and establishment of an institution responsible for development and implementation of traffic management measures in Baku.	7/28/2009	50.0	O. Le Ber
13.	Azerbaijan	Apsheron Rehabilitation Project (P104985)t	The proposed Apsheron Rehabilitation Project, potentially supported by the Bank, the Global Environmental Facility (GEF), and other donors, will help launch a large-scale, long-term program to rehabilitate the areas around Baku in order to reduce the threat to the health o f area residents and enable reutilization o f substantial areas o f valuable land. The project will build on the technologies piloted under the Urgent Environmental Investment Project, which closed in FY06. The project's major objective is to help put in place regulatory, institutional, and incentive structures to channel private sector investment into recovering oil-contaminated land and to ensure that all future oil production meets international environmental standards. The project could also include direct investment in clean-up o f high priority legacy contamination.	6/12/2008	200.0	A. Dasgupta



	COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION	PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
14.	Azerbaijan	IDP Economic Development Support Project (P107613)	The objective of the additional financing is "To help improve the living conditions of IDPs and enhance their economic opportunities and prospects for social integration." The additional financing will provide support for 2 components: 1. Micro-projects: financing the preparation and implementation of small-scale projects of rehabilitation, repair or reconstruction of infrastructure. 2. IDP/EDS Implementation Support for operating costs.	1/8/2008	10.0	E. Hamilton
15.	Belarus	Integrated Water Supply and Natural Hazard Mitigation Project (P101190)	The principal objective of the Project is to implement a set of interrelated activities intended to assist the Government in providing more efficient and reliable water sector related services and to better manage and mitigate the impact of weather-related natural hazards. The project is expected to generate tangible targeted benefits for the least advantaged groups through improved household water supply services. In addition, the project is expected to contribute to a better delivery of a global public good (weather and climate information), particularly in north-eastern Europe and Baltic region. This objective will be achieved through rehabilitation, improvement, and expansion of water supply systems; adoption of advanced technologies for water treatment and de-ironization; improving the capacity of the Belarus Hydro meteorological Service (HMS) to provide effective and timely weather and hydrological services to the Government and the public; and enhancing overall management of the water sector	1/15/2008	50.0	K. Shankar
16.	Belarus	Social Infrastructure Retrofitting Project Additional Financing (P106719)	The proposed additional financing would support Energy Efficiency Improvements in Social Sector Buildings (schools and hospitals) across Belarus. Higher than estimated bid prices on the Energy Efficiency Improvements in Social Sector Buildings due to the strong Euro and increases in wages in Belarus forced the implementing agencies to reduce the number of buildings covered in the original project. The cost overrun estimate is about US\$ 6 million, which financing would help undertake energy efficiency improvements in the original scope of 9 buildings boiler houses. Additional energy efficiency retrofitting in about 200 buildings (schools and hospitals) (175 sites) will be implemented for an additional US\$ 9 million, including required consultants and support to PMUs. The PMU has been involved in the project to provide technical and monitoring services with the help of consultants financed under the loan. The PMU's role would continue under the additional financing scope. The PMU has been funded from the government energy efficiency budget	11/15/2007	15.0	P. Salminen
17.	Bosnia and Herzegovina	Forest and Mountain Protected Area GEF (P087094)	The development objective is to increase the area in forest and mountain ecosystems under formal protection status, and to develop mechanisms in order to conserve these ecosystems in the long term.	11/29/2007	3.5	D. Bontempo
18.	Bosnia and Herzegovina	Road Infrastructure and Safety Project (P100792)	This is a new lending project to Bosnia and Herzegovina, which aims to assist the entity Ministries of Transport to improve the main, regional and secondary road networks. It will also contain a road safety component and a capacity building component. The objective of the project is to reduce user costs on the priority road sections included in the project These have been selected from a Strategy Analysis of the network in the two entities, building on the work undertaken in the previous project. The project will also make a significant contribution to the improvement of road safety in Bosnia and Herzegovina, being one of the first project in the World Bank to use the new Guidelines.	1/10/2008	25.0	J. Bure

	COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION	PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
19.	Bulgaria	<b>Municipal Infrastructure Development (P099895)</b>	The project will assist Bulgaria to absorb EU funds, comply with EU directives, and complete important public investments in water resource management. Specifically, the project will: a) have a technical assistance component to prioritize and prepare projects that can be financed by EU's Cohesion and Structural funds; b) support important municipal investments (water, wastewater, sewerage, and solid waste management) to help the country meet EU directives; and c) complete important water resource investments to reduce water scarcity in some parts of the country which do not receive 24 hour water supply.	3/7/2008	105.9	S. Sarkar
20.	Bulgaria	<b>Bulgaria Regional Development (P078384)</b>	The objective of the proposed project is to create conditions for the successful absorption of funds from the European Regional Development Fund (ERDF). This will be achieved by: a) assisting municipalities in the absorption of EU structural funds for regional development through practical training, strengthening of the central and regional structures of MRDPW and municipalities, and preparation of sample projects in selected municipalities; b) completing the cadastre register to support municipal investment preparation and spatial planning; c) establishment of a flexible investment mechanism for project preparation.	8/28/2008	50.0	M. Clark
21.	Croatia	<b>Agricultural Pollution Control GEF (P100639)</b>	The development objective of the project is to increase significantly the use of environmentally friendly agricultural practices by farmers in Croatia's Pannonian plain in order to reduce nutrient discharge from agricultural sources to surface and ground water bodies. In support of this, the project will assist the Government of Croatia to: (i) develop mitigating measures for nutrient reduction from agricultural sources to surface and ground water bodies; (ii) implement select agri-environment measures, including strengthening of national policy and enforcement; and (iii) public awareness campaign that would disseminate the knowledge about the choices the farming community will have at its disposal while responding to the more stringent requirements for reducing nutrient loads (nitrogen and phosphorous) entering local water bodies.	11/6/2007	5.0	A. Nacev
22.	Croatia	<b>Rijeka Gateway II (P102365)</b>	The proposed project would foster sustainable growth in the second economic center of Croatia, by furthering port development, while supporting both increased transport connectivity from the port to its markets and enhanced quality of life through a redefined port-urban interface.	4/30/2008	100.0	G. Ollivier
23.	Croatia	<b>Coastal Cities 2 (P102732)</b>	Phase 2 of the Croatia Coastal Cities Pollution Control Project (APL). The overall Project Development Objectives is to improve the quality of Croatia's Adriatic coastal waters to meet EU ambient quality standards in the participating municipalities, in a financially and operationally sustainable manner.	7/31/2008	70.0	M. Webster
24.	Europe and Central Asia	<b>Bosnia/Croatia Integrated Ecosystem Management of Neretva and Trebisnjica River Basins GEF (P084608)</b>	The project development objective is to ensure the effective and environmentally sound management of the water and land resources of the Neretva and Trebisnjica River Basins. The global environmental objective is to reduce water pollution and improve biodiversity conservation in the Neretva and Trebisnjica River Basins by implementing a comprehensive ecosystem-based approach in managing international waterways.	11/20/2008	8.0	U. El-Hanbali

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25. Central Asia	Tien Shan Biodiversity Project (P104642)	The proposed project would build on the experience of the Central Asia Transboundary Biodiversity Project. The objective is to increase the environmental sustainability of the Tien Shan mountain ecosystems of Kazakhstan, Kyrgyz Republic, and Uzbekistan. The proposed regional project would be cofinanced by the GEF in the three countries. Kazakhstan would allocate an important amount of its own resources to this project. The Kyrgyz Republic would invest IDA resources to implement reforestation and afforestation activities for which a carbon trading scheme would be developed. The Biocarbon Fund should buy a share of the carbon credits generated. Possible allocation of IDA resources in Uzbekistan for this global good will depend on the Interim Country Strategy. Project will be processed as a fully blended operation with the regional GEF Tien Shan Biodiversity Project (P104670).	3/27/2008	6.0	M. Guadagni
26. Central Asia	Tien Shan Biodiversity (GEF) (P104642)	The proposed project would build on the experience of the Central Asia Transboundary Biodiversity Project. The objective is to increase the environmental sustainability of the Tien Shan mountain ecosystems of Kazakhstan, Kyrgyz Republic, and Uzbekistan. The proposed regional project would be cofinanced by the GEF in the three countries. Kazakhstan would allocate an important amount of its own resources to this project. The Kyrgyz Republic would invest IDA resources to implement reforestation and afforestation activities for which a carbon trading scheme would be developed. The Biocarbon Fund should buy a share of the carbon credits generated. Possible allocation of IDA resources in Uzbekistan for this global good will depend on the Interim Country Strategy. The GEF regional project is cofinanced by the IDA Kyrgyz allocation for regional projects under the parent Tien Shan Biodiversity Project (P104642).	3/27/2008	4.0	M. Guadagni
27. Georgia	East-West Highway Improvement—Phase 2 (P094044)	This project is designed as a supplemental credit of East-West Highway Improvement Project - Phase 1 (P083110) above. Phase 2 will be the upgrade of the section from Igoeti to Sveneti. This project is the second phase in a three-phase road improvement program.	11/27/2007	35.0	O. Le Ber
28. Georgia	Khudoni Hydropower (P094377)	This is a follow-on project to the existing "Infrastructure Pre-investment Facility" Project under implementation. The proposed project will finance the construction of the 700 MW Khudoni Hydropower generation plant. Financing will be needed for dam construction, procurement of turbines to generate electricity, and materials to improve efficiency of the transmission of electricity. Technical assistance will be also be needed to assist the government of Georgia build capacity to manage this large-scale infrastructure project. The proposed project will be an "IBRD enclave" project in which the power generated will mostly be sold to Turkey to generate foreign exchange for Georgia. In addition, private sector investors will be invited to participate in the financing and operation of the power plant.	7/23/2009	60.0	B. Hamso
29. Georgia	Hydro Rehabilitation (P101625)	The project is designed to rehabilitate existing or construct new hydropower plants to create at least 15 MW of additional small, run of the river hydro capacity. There have been 24 potential project sites of which 7 have been pre-selected, for the first year of the project to develop at least 5 MW of additional capacity with an additional 5 MW add each year for the next two years.	8/9/2007	3.0	J. Melitauri

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30.	Kazakhstan	<b>Fisheries Management Innovation (P083976)</b>	The overall goal of the project is to increase the diversification and competitiveness of Kazakhstan's non-oil by introducing innovations in fisheries management to Kazakhstan. The specific development objectives are to improve the institutional capacity for fisheries management, marketing of fish products, and investments in technology, enhancing the sustainable contribution of the fisheries sector to the national economy. The project will build on the recommendations of the recently completed Kazakhstan Fisheries Sector Study.	6/2/2008	15.0	W. Sutton
31.	Kazakhstan	<b>Irrigated Ecosystem Management GEF (P099053)</b>	The development objective of the project is to promote sustainable land and water use management in the semi-arid and irrigated lands of Kyzylorda oblast of Kazakhstan through the provision of appropriate, environmentally sustainable agricultural practices to farmers, thereby improving the income and living conditions of the farming community.	3/27/2008	6.0	J. Stoutjesdijk
32.	Kazakhstan	<b>Irrigation &amp; Drainage II (P086592)</b>	The project's main objectives would be to: (a) improve water resources management and increase water use efficiency in irrigation and drainage sub-sector by improving irrigation and drainage systems, better operation and maintenance with broader participation of users through water users' associations (WUAs); (b) introduce improved agricultural, irrigation, drainage and water management practices and farmers' information services to increase agriculture productivity; and (c) strengthen water management, and irrigation and drainage institutions.	12/20/2007	155.0	J. Stoutjesdijk
33.	Kazakhstan	<b>Syr Darya Control and Northern Aral Sea Phase II (P093825)</b>	Project to improve water resource and environmental management in the Syr Darya Basin.	10/21/2008	55.0	J. Stoutjesdijk
34.	Kazakhstan	<b>South-West Corridor Rehabilitation Project (P099270)</b>	The proposed project will finance the rehabilitation and reconstruction of about half of the South-West road corridor (SWC) that links China—Kazakhstan—Russia. The road sections proposed for World Bank financing would be from Shymkent # Kyzylorda # Karabutak, totaling around 1239 km. The purpose of the project will be to encourage development of the South and West of Kazakhstan particularly the areas surrounding the road corridor, and provide a more direct route to/from Russia for transit traffic traveling to/from Kyrgyz Republic, Tajikistan and Uzbekistan. The proposed road project represents approximately 5% of the primary road network in Kazakhstan.	6/30/2008	150.0	H. Kerali
35.	Kazakhstan	<b>Territorial Development Project (JERP) (P102772)</b>	To prepare a KZ Territorial Development Fund Project, which would finance the Government's effort to implement the national territorial development strategy to enhance economic development and competitiveness in the regions. The intervention will be multi-sectoral. Precondition would be for the regions to prepare their own regional development strategies, using internationally accepted diagnostic and strategy formulation methods, and put up certain counterpart funding, as well as to set up a monitoring and evaluation system. Substantial efforts will be made in creating capacity at national, regional, and local levels, through TA and training. Experience in OECD and EU countries would be brought in.	11/15/2007	55.0	Y. Katakura

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36.	Kosovo	<b>Real Estate Cadastre and Registration (P101214)</b>	The proposed project will be a follow up on the Enhancement of Tenure Security Component of the Business Environment project. This component is part of the Kosovo Cadastre Development Program II, a joint effort by the donor community (Sweden, Norway, Switzerland, and the World Bank). The overall goal of the Kosovo Cadastre Development Program is to enhance tenure security and facilitate the development of land and property markets. The central objective of the project is to enhance the security of property rights in Kosovo. This will be achieved through: (i) registration of apartments; (ii) improvement in service delivery of the municipal cadastre offices and strengthened capacity of the Kosovo Cadastre Agency; and (iii) harmonization and improvement of the laws and regulation that government cadastre and registration.	1/16/2009	7.0	C. Shaw
37.	Kyrgyz Republic	<b>Agricultural Investments and Services Project (P096993)</b>	The project provides support for further institutional reform and strengthening of essential support services for farmers and livestock holders.	12/04/2007	10.0	M. Guadagni
38.	Kyrgyz Republic	<b>Tien Shan Biodiversity (P102403)</b>	The proposed activity would be part of the Tien Shan Biodiversity Project (P104642), a regional project including Kazakhstan, Kyrgyz republic, and Uzbekistan. The objective of this activity would be to increase the pace and effectiveness of reforestation and afforestation activities in the Kyrgyz Republic. Increased reforestation would contribute to biodiversity protection, soil conservation, and carbon sequestration. The Government of the Kyrgyz Republic will borrow from IDA (link P104642) so to ensure the necessary investment funding. During preparation, the team will also look for additional co-financiers.	7/30/2008	0.3	M. Guadagni
39.	Kyrgyz Republic	<b>Bishkek and Osh Urban Infrastructure (P104994)</b>	The objective of the project is to improve the availability of essential local infrastructure services to poor “novostroiki” settlements in Bishkek and Osh, the two largest cities of the Kyrgyz Republic, with a view to de-marginalize the populations of these areas and improve their living standards and prospects for access to economic opportunities. The project would involve water supply, sanitation, drainage and urban roads. In addition, there will be a need for institutional capacity building of the counterpart agencies that will be involved in the project activities. A key agency that may benefit from improved technical capacity is OGUKS, the Bishkek Municipality Department that works with community leaders in assessing community needs.	12/18/2007	15.0	J. Kamkwala
40.	Kyrgyz Republic	<b>National Road Rehabilitation (Osh-Isfana) (P107608)</b>	The proposed project will support the rehabilitation of national roads in the Kyrgyz Republic. Most of the IDA grant would be allocated for the rehabilitation of the Osh-Batken-Isfana road that would restore access to the majority of the population in Batken Oblast who currently lack efficient access to the national road network. A small proportion will be utilized to improve the planning and management of maintenance for the national road network.	2/19/2009	20.0	H. Kerali
41.	Macedonia, FYR	<b>Energy Infrastructure Improvement (P096217)</b>	This loan will finance investment projects for rehabilitation and expansion of the energy infrastructure in Macedonia.	3/24/2009	30.0	H. Beides

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42.	Macedonia, FYR	Municipal Services Improvement (P096481)	The proposed project development objective is to support sustainable delivery of municipal services. This PDO implies a measurable focus on specific services to customers or users, under the responsibility of the participating municipalities and of their communal service enterprises. It is expected that the subprojects to be supported would be mainly in infrastructure services (water supply, sanitation, solid waste) provided by the CSEs, but could also include other municipal functions such as urban planning, local roads, urban transport, or upgrading of public buildings/ other facilities under municipal provision.	7/25/2008	25.0	C. Kessides
43.	Macedonia, FYR	Secondary and Local Roads (P107840)	The project will support the central and local Governments in improving the network of secondary and local roads, including the institutional setup for managing and maintaining those roads.	3/17/2009	To be determined	A.Schliessler
44.	Moldova	Hazard Mitigation in Rural Areas (P096260)	The objective is to develop the concept and initiate preparation of a Bank operation that would include investments to mitigate the human, economic, and environmental impacts of natural disasters in Moldova.	6/8/2009	10.0	C. Shaw
45.	Moldova	National Water Facility (P107612)	The proposed project development objectives (PDO) are to (i) support the Government's effort to improve water and sanitation services through creating a National Water Facility (NWF) that would channel most or all national and external financing to the sector along programmatic lines; and (ii) apply the policies of the NWF to improve water supply and sanitation services in selected localities.	5/12/2008	16.0	T. Ikegami
46.	Montenegro	Energy Community of South East Europe— APL 3 (P106899)	This project aims to improve the efficiency and reliability of the power system in the Republic of Montenegro, through better supply security and closer integration into the regional markets. This Project replaces P096598 Montenegro ECSEE APL #3.	7/6/2007	9.0	H. Beides
47.	Montenegro	Tara and Lim River Basin Watershed Management (P099749)	The proposed project development objectives (PDO) are to (i) support the Government's effort to improve water and sanitation services through creating a National Water Facility (NWF) that would channel most or all national and external financing to the sector along programmatic lines; and (ii) apply the policies of the NWF to improve water supply and sanitation services in selected localities.	7/15/2008	5.0	K. Kiss
48.	Montenegro	Land Administration (P106906)	The development objective of the project would be: to improve the efficiency of permitting and property registration. The beneficiaries of the investment will be: (a) the public living within the municipalities as more order is brought to the built environment; and (b) the business community as more transparent and efficient processes for the establishment and operations of a business are facilitated. The level of informal development should be drastically reduced, such that unsustainable and unattractive developments are curtailed, yet the business community and the private citizen will be able to develop their own assets with greater ease and security. By the end of the project it should be possible for the public to easily access information about the processes required to develop a business or property and to have access to the legal situation concerning a property, the zone plans and the forms and procedures for applying to develop a property or obtain the necessary permits and licenses to establish their business activity.	6/19/2008	10.0	G. Adlington

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49.	Montenegro	Agriculture Reform (P107473)	The project development objective is to create an efficient rural development program consistent with pre-accession rural development programs. Key outcome indicators may include: (i) improved MAFWM ability to disburse and track the use of rural development funds and to evaluate their impact on the agri-food sector and to improve its general administrative capacity and capacity for strengthening of the food safety system; (ii) increased number of agricultural producers and processors using modern agriculture technologies and practices; and (iii) expanded areas under ecological management and/or restoration within the basins of rivers Tara and Lim, including the agriculture development in the surrounding area.	11/10/2008	15.0	J. Lampietti
50.	Montenegro	Energy Efficiency Project (Additional Financing) (P107992)	This new Project will focus particularly on improving energy efficiency projects in public sector buildings (schools, health centers, universities, etc) and could also support financing loss reduction programs in EPCG transmission and distribution networks.	5/4/2009	10.0	H. Beides
51.	Poland	Walbrzych Fuel Switch (PCF) (P078251)	The primary objective of the Project is to support the development of an international market for the new commodity known as "Emission Reduction" (ER). In this particular case, the Project will facilitate reduction of CO2 emissions in Poland through substitution of clean geothermal energy for polluting coal-fired heat generation.	7/2/07	2.4	H. Schreiber
52.	Poland	Transport Infrastructure Rehabilitation (P102731)	The proposed project will foster: (i) increased benefits to roads and railways users through improved main Polish national road and rail infrastructure, and (ii) improved institutional capacity of Polish railway and road sector institutions to manage their network assets efficiently and effectively. Achievement of the project objective will be confirmed using indicators.	11/29/2007	135.1	R. Czapski
53.	Romania	Romania Environment Management (P093775)	The overall development objective of the proposed project is to build institutional and regulatory capacity within the Government of Romania to implement the EU Environment Acquis. Towards this, the project will provide technical assistance as well as undertake specific investments that would not only build capacity for absorbing EU funds upon accession for preparation and implementation of environmental acquis measures but also assist the country to comply with several priority environmental acquis measures necessary for accession. Such support would focus on three technical pillars: nature protection, including support for the EU Natura 2000 program; water management for nutrient stress reduction; and contaminated lands.	10/23/2007	68.0	K. Shepardson
54.	Romania	Romania Environment Management GEF (P099528)	The global environment objective of the project is to mainstream global environmental issues into the Government of Romania's overall environmental management program. The project will assist the country in catalyzing actions and leveraging additional funds necessary for undertaking priority investments in three GEF focal areas: biodiversity, international waters and persistent organic pollutants.	10/23/2007	5.5	K. Shepardson
55.	Romania	Farm Restructuring (P100638)	The objective of this project is to support farm restructuring and competitiveness enhancement in Romanian agriculture by assisting the government to complete its land-related agenda and help farmers to access and make more effective use of EU's Common Agricultural Policy funding opportunities, to restructure, and to become competitive in both a national and European context.	10/23/2007	65.0	H. Kray



			PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION			
56.	Romania Energy Community Program (P100957)	The US\$1 billion ECSEE APL facility approved in January 2005 supports the development of the Energy Community of South East Europe. Romania's Hidroelectrica is the first borrower from the facility for its ECSEE APL1 Lotru project. Hidroelectrica and Romania's transmission system operator (TSO) Transelectrica are preparing new projects which in principle would be suitable for Bank financing under the ECSEE APL facility (alternatively, if required due to funding or timing considerations, they could be financed under regular investment loans). Hidroelectrica's proposed new project is the Tarnita pumped-storage hydro project. A new feasibility study is being finalized. A facility of about 1,000 MW is envisioned., in two phases of 500 MW each The lower reservoir exists. The project would develop the upper reservoir, tunnels and the pumped-storage hydro plant.	7/22/2008	150.0	K. Nyman
57.	Romania Regional and Rural Development (P101204)	Regional and Rural Development project that aims to strengthen the institutional framework for allocating funds to rural and regional development and to build synergies within the two operational programs in the EU context, to maximize the impact and efficient use of EU funds. The project will help to build a high quality pipeline of regional and rural projects at the local level through support to develop rural infrastructure projects, and bottom-up regional and territorial development initiatives such as LEADER+ and Local Economic Development (LED).	6/6/2008	50.0	K. McLean
58.	Romania Electricity Generation Privatization PRG (P100353)	The Government of Romania intends to offer for sale two large energy complexes (two lignite-fired power stations and the lignite mines that produce their fuel), Rovinari and Turceni. The Government has expressed interest in considering the use of the PRG to support what would be the first electricity generation privatizations; the use of PRG is included in the draft Country Partnership Strategy (CPS).  The privatization process will be launched shortly with the invitation for prospective investors to submit their statements of qualification in order to be prequalified to bid. The Bank's project team will work with the Government, their advisers, and prequalified bidders to determine how the PRG could be used to support the privatization.	3/19/2009	120.0	K. Nyman
59.	Russia Housing and Communal Service Reform Program (DPL) (P079032)	The objective of this project is to reform the housing and communal services (HCS) sector from relying almost completely on government provision of services to market-based mechanisms for service delivery. The project will help to implement the Federal Government's comprehensive reform strategy for the HCS sector. Key areas of reform are: (i) making the sector financially viable; (ii) improving the system of social protection for the poor; (iii) reforming the relationships between consumers, housing maintenance and utility enterprises, and local governments; and (iv) creating private housing management structures.	9/28/2007	200.0	G. Sargsyan
60.	Russia Renewable Energy (GEF) (P079033)	This GEF supported project will co-finance small biomass district heating operations in North-Western Russia. The project would be carried out in close cooperation with other donors like the Nordic Environmental Finance Cooperation (NEFCO).	3/14/2008	10.0	H. Schreiber
61.	Russia Carbon Finance Project 1 (P095812)	The objective of this project is to promote clean air technologies in Russia.	9/28/2007	6.0	H. Schreiber
62.	Russia Carbon Finance Project 2: Uljanovsk Landfill Gas Reduction Project (P101994)	The Project envisages the installation and operation of the Gas Flaring System plant fuelled by landfill gas at the Baratayevka landfill site in Russia. Nowadays, capture and utilization or flaring of LFG is a well proven technology to reduce the methane emissions. Reductions of methane emissions will be achieved through flaring of captured landfill gas.	9/28/2007	3.0	H. Schreiber



				PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION				
63.	Russia	<b>Microfinance Infrastructure Development Project (P100563)</b>	The objective of the proposed project would be to assist the Government in developing a sustainable, safe and sound national financial cooperative system in order to enhance access to financial services by the poorer and underserved segments of the population, especially in the rural areas. Under this overarching objective the Project would aim to: (a) provide assistance to develop and implement an appropriate legal and regulatory framework; (b) establish an integrated system of FCs through technical assistance, institution building, and infrastructure support; and (c) strengthen the technical capacity of the financial cooperative system.	3/17/2008	50.0	S. Suleymanov
64.	Russia	<b>Fire Management in High conservation-Value Forests of the Amur-Sikhote-Alin Ecoregion GEF (P068386)</b>	The objective of the proposed project is to strengthen conservation of the high conservation value forests of the Amur-Sikhote-Alin Ecoregion (ASAE) of the Russian Far East through the improved forest fire management, reducing frequency, size and intensity of catastrophic fires in the areas of the global conservation importance. The project would develop and implement policies and practices for the integrated management, monitoring and prevention of forest fires across boundaries within a landscape matrix of protected and non-protected forest areas of high conservation value (HCVF).	12/31/2007	8.6	A. Kushlin
65.	Russia	<b>Special Economic Zones Project (P092213)</b>	Assistance to the government in establishing 5 Special Economic Zones of a new type, including co-financing of infrastructure development, design of an institutional framework, and training of federal and sub-national public servants.	5/30/2008	50.0	G. Sargsyan
66.	Russia	<b>Carbon Finance 4: Rosneft Gas Flaring Reduction Project (P0102324)</b>	The Project provides for reducing the emissions through recovering the gas that would be burnt in flares without the project. The project consists of a booster compressor station/separator, and a pipeline of about 5 km length to an existing gas treatment plant/compressor station owned and operated by Gazprom, where the gas will be fed into the existing Unified Gas Transmission System of Gazprom.	12/21/2007	150.0	H. Schreiber
67.	Russia	<b>Electricity Generation Guarantee (P102726)</b>	The proposed Partial Risk Guarantee will facilitate private sector investments in the power generation in Russia. It will complement the respective government program on guaranteeing investments in power generation	12/28/2007	500.0	G. Sargsyan
68.	Russia	<b>Environmental Liabilities (P108002)</b>	The overall objective of the proposed project would be to support Russia's initiation of a response to the PEL issue over the long term, both at the national and regional level. More specific objectives would be to support the development of: i) sustainable institutional capacity; ii) a framework for an inventory and registry of PEL; iii) practical methodological and regulatory tools for assessment, prioritization and addressing of PEL; iv) legal clarification of responsibility for PEL and its transfer; v) pilot investment operations in cleaning up high priority sites for which a variety of physical situations and financing mechanisms can be demonstrated.	6/25/2009	25.0	V. Tsirkunov
69.	Serbia	<b>Serbian Railway Reform (P096592)</b>	This project will assist Serbian Railways and the Ministry of Capital Investments to implement the 5 year Business Plan and Restructuring Plan produced with earlier technical assistance. The provisional expectation is that the project will comprise physical investments in infrastructure, together with support to the continued retrenchment of labor, and institutional reform, consistent with the relevant EU directives	4/30/2008	50.0	M. Humphreys

	COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION	PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
70.	South Eastern Europe and Balkans	Albania/Montenegro Lake Shkoder Integrated Ecosystem Management GEF (P084605)	The overall objective of the project is to assist the governments of Albania and Montenegro in achieving more sustainable use of the natural resources of Lake Shkoder and its watershed. The global environmental objective of the project is to reduce pollution and conserve the lake and its biodiversity as an internationally important natural habitat, especially for waterbirds. Because of the multifaceted nature of the lake's problems, the project would pursue an integrated approach to land and water issues by promoting cross-sectoral cooperation throughout the watershed.	1/8/2008	5.0	A. Kiss
71.	Tajikistan	Pamir Emergency (P105727)	Through private sector involvement, the project objective is to improve the reliability and enhance the quantity of supply of electricity in the Gorno Badakshan Autonomous Region (GBAO)—one of the most isolated and impoverished areas of the world—in a financially, environmentally and socially sustainable way. The Project generates and supplies electricity under a 25-year Concession awarded to a private concessionaire, Pamir Energy Company (PamirEnergy, the Beneficiary).	6/10/2008	4.0	N. Nikolov
72.	Turkey	Hydroelectric Efficiency Improvement (P093316)	The project aims to assist in improving the efficiency and operations of selected hydroelectric power plants in Turkey. This will enable EUAS, the owner of these plants, to ensure improved availability and generation, and also improved ability to respond to peaking demand requirements and unforeseen emergencies. The project will also support the improvement of dam safety monitoring practices in the concerned dams, and will also support the establishment of a country-wide system of dam safety monitoring and regulation.	10/24/2008	150.0	S. Shukla
73.	Turkey	National Disaster Preparedness (P099713)	The proposed project would support the government agenda to reduce seismic risk in Turkey in order to save lives and protect the economic assets in the case of a major earthquake. It will build on the experience gained during the implementation of the MEER project and the preparation and early implementation of the ISMEP project. The proposed project could include the following components: (i) strengthening of emergency Preparedness and the national and local levels; (ii) retrofitting of priority public buildings such as schools and hospitals; (iii) improve enforcement of building code and land use plans; and (iv) further support to risk transfer mechanism.	3/20/2008	350.0	W. Zakout
74.	Turkey	Environment and Natural Resources (P104530)	The project's development objective would be to implement catchment-wide sustainable land and water management activities, to improve rural and agricultural service delivery mechanisms to poor upland communities, and to support the development of the institutional mechanisms and human resource capacity to enable this to happen.	3/3/2008	240.0	P. DeWees
75.	Turkey	Cadastre Modernization Project (P104530)	The objective of the proposed project is to support the development of the regulatory framework, institutional structure, capacity, software and equipment as well as data conversion for the creation of digital, up-to-date Real Estate Information System that can be shared among the various government institutions at all levels to support the E-Government initiative. Spreading the applications of the E-government program is an integral part of the Ninth Development Agenda to improve the services of the public sector (Section 7.5.4 paragraph 705).	5/22/2008	200.0	W. Zakout

	COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION	PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
76.	Ukraine	<b>Power Transmission Project in Support of the Energy Sector Reform &amp; Development Program (P096207)</b>	The main objective of the proposed Power Transmission Project is to improve reliability of power supply through the rehabilitation of transmission substations and the strengthening of the power transmission network. The project will also aim to upgrade the capabilities of transmission system operator, Ukrenergo (UE), so that it can assure security and reliability of power supply, including: (a) removing critical bottlenecks in transmission networks; (b) improving operational stability of power grid; (c) upgrading load dispatch and system control capabilities; and (d) upgrading infrastructure and systems for electricity market administration.	8/2/2007	200.0	D. Ostojic
77.	Ukraine	<b>Roads and Safety Improvement Project (P100580)</b>	The key objective of the proposed project is to improve Ukraine's trade competitiveness through modernized integrated network linked with international trade routes. The project aims to improve passenger and freight traffic flows in an efficient and safe manner, along one of the most highly trafficked corridor. To achieve that objective, the project will seek to (a) enhance road infrastructure capacity and transport integration along the corridor; (b) increase accessibility to markets and social services by the lower-income rural areas in the region.	5/27/2008	400.0	M. Audige
78.	Ukraine	<b>Urban Infrastructure (P095337)</b>	The project objective is to assist the Utilities in implementing Business Plans that lay out the financial, operational changes and investments needed to move toward sustainable operations.	8/28/2007	140.0	S. Manghee
79.	Ukraine	<b>Odessa Wastewater Nutrient Reduction Project GEF (P097763)</b>	The proposed project is part of a multi-year program addressing water supply and sanitation for which the government of Ukraine requested the assistance of the World Bank and the GEF. An IBRD loan of US\$140 million was recently negotiated with the government to address urgent rehabilitation of water and waste water infrastructure. The proposed GEF project will complement the IBRD loan by focusing on Odessa as major environmental hotspots for the Black Sea.	5/6/2008	4.6	T. Ikegami
80.	Ukraine	<b>Methyl Bromide Phase-Out GEF (P085138)</b>	The project's development objective is to contribute to Ukraine's environmental sustainability by assisting the country in meeting key international environmental obligations related to methyl bromide phase-out with minimum economic dislocations. This specifically applies to supporting the mainstreaming of environmental considerations into the agricultural sector through integrated pest management (IPM) such that quality, productivity and economic returns in the grain sector are maintained and enhanced.	11/30/2007	5.1	V. Tsirkunov
81.	Ukraine	<b>Alchevsk Steel Mill Revamping and Modernization (P101615)</b>	The project will increase energy efficiency and decrease pollution of the Alchevsk Steel Mill. The project will install a variety of energy efficiency measures over the course of several years to convert from open-hearth steel production mainly to converters and from bloom casters mainly to slab casters. The measures will also increase the capacity of the plant. As the project is implemented over several years in various sub-project stages, the financing will also be secured in a piecemeal manner. The World Bank intends to purchase about 1 Million ERUs at the cost of 7.5 Million USD using the Netherlands European Carbon Facility.	7/27/2007	7.5	G. Peszko
82.	Ukraine	<b>Dniester Hydropower (P101832)</b>	This is the completion of the first phase of the Dniester Hydropower Pumped Storage project which includes 3 hydro electric units and connection to the electric power grid, with the combined capacity of about 1000 mw and connection to the electric power grids.	3/20/2008	250.0	D. Ostojic
83.	Ukraine	<b>Urban Infrastructure 2 (P101874)</b>	Municipality investments for water supply/sanitation/solid waste and energy efficiency.	9/30/2008	250.0	S. Manghee

COUNTRY	PROJECT	DEVELOPMENT OBJECTIVES/DESCRIPTION	PLANNED BOARD APPROVAL	LOAN/ CREDIT/ GRANT AMOUNT (US\$ MLN)	PROJECT TEAM LEADER
84. Uzbekistan	<b>Bukhara and Samarkand Solid Waste Management Project (P095263)</b>	The Bukhara Samarkand Solid Waste Management Project would be based on the experience of the Tashkent Solid Waste Management Project and will vary slightly to take into account the lessons learned in Tashkent and the unique needs of Bukhara and Samarkand. It is envisaged that the project would consist of a two-phase investment. The first phase would finance urgent solid waste equipment needs based on a rapid assessment, development of a strategic MSWM plan, follow-up technical and institutional development work, and project management support. Phase two would finance implementation of the strategic MSWM plan which would include: institutional strengthening, waste collection equipment, landfill construction/ upgrading, waste processing and landfill equipment, central repair and maintenance facility, and other equipment (for example, septic tank cleaning equipment, street cleaning, landscaping equipment, computers, and other equipment for meeting project objectives.)	6/20/2008	20.0	J. Bernstein
85. Uzbekistan	<b>Tashkent Composting of Municipal Solid Waste Danish Carbon Fund (P096806)</b>	The objective of the project is to introduce source separation of wet and dry waste fractions at the household and commercial establishment levels in Tashkent, Samarkand, and Bukhara and to compost the wet fraction.	9/14/2007	5.0	J. Bernstein

GEF – Global Environment Facility

PCF – Prototype Carbon Fund

FY – fiscal year. Example: FY07 covers July 1, 2006 to June 30, 2007

## ANNEX 2. MORE INFORMATION ABOUT STAFF



**Gavin ADLINGTON**, *Senior Land Administration Specialist*, joined the Bank in 2005. Mr. Adlington worked in all regions except South America on matters relating to land administration, specializing in registration procedures, cadastres and cadastral survey, surveying, mapping, institutional development. He is also

experienced in general land reform, land development, land taxation, land consolidation and land management issues.

*Current Work Program:* Cadastre and registration projects in Ukraine, Serbia, Bosnia and Herzegovina, Azerbaijan and Bulgaria. Other assistance on Europe and Central Asia land administration projects as required.

*Strengths:* In depth knowledge of multiple country systems with regard to land administration issues. Many years of practical experience. Multiple project experience. Good working knowledge and understanding of policy and legislation relating to land administration.

*Education:* B.Sc. (Land Surveying Sciences); M.S. (International Land Management); Post-graduate Diploma in Education.



**Halil AGAH**, *Senior Rural Development Specialist*, joined the Bank in 2004. He has twenty-five years of experience in project management with special expertise in “Project Preparation, Implementation and Evaluation-Financial & Economic” with rural development and regional development projects. He has experience

in the fields of economics analysis of the development projects, business development, fundraising, SME development and promoting, programming and conducting of farmers training activities, farming systems, risk in agriculture, rural and regional development policy, natural resources economics, agricultural research policy, agricultural data collection and analysis for aimed policy purposes. During his employment, he has taken part in the studies concerning agricultural and regional development and environmental project preparation; SME development, export promoting and market analysis; planning of rural infrastructure, etc.

Prior to joining the Bank, he worked for the Turkish Government as a researcher, project coordinator and manager for about twenty two years in the Ministry of Agriculture and the Prime Minister Office.

*Current Work Program:* Works on rural development, agricultural and environmental portfolio in Turkey. He is the Task Team Leader of the Avian Influenza and Human Pandemic Preparedness and Response Project. He is coordinating, delegating and directing to related line Ministries and implementing agencies in Turkey.

*Strengths:* Multi-sectoral operations and studies; technical, institutional and economic analysis; project development, negotiations and implementations; teamwork; ability to lead policy dialog with the Government.

*Education:* M.S. (Agricultural Economics), Aegean University, Turkey, 1984; B.S. (Agricultural Economics) Aegean University, Turkey, 1981.

*Languages (other than English):* Turkish (native), French (fair).



**Arusyak ALAVERDYAN**, *Operations Officer*, has been working as an Operations Officer in the Armenia Country Office since November 2004. Previously, during 1999–2001, she worked as a Financial Analyst in the Armenia Country Office. And during January–December, 2003, was hired as an STC in HQ.

*Work experience:* Armenia, Bulgaria, Kyrgyz Republic, Turkey.

*Current work program:* Irrigation portfolio in Armenia: Dam Safety Project, Irrigation Development Project, Irrigation Dam Safety II Project.

*Strengths:* Reform in the irrigation sector, Water Users Associations, Rural Finance, Financial Analysis.

*Education:* Diploma of Mathematician, Yerevan State University; M.B.A. (Finance), American University of Armenia (affiliate of the Southern California University); M.S. (Agricultural Economics), University of Georgia, USA.

*Languages (other than English):* Armenian (native), Russian (excellent).



**Mirlan ALDAYAROV**, *Operations Officer*, joined the Bank in December 2002. Prior to joining the Bank, he had management and consulting experience in private sector focusing on telecommunications and at an international non-profit organization, Urban Institute. He was responsible for the component of municipal finance development for the project of Urban Institute in Kyrgyz Republic and Kazakhstan. He assisted the Government of Kyrgyz Republic with drafting key legal documents in the area of local self-government and local public finance.

*Current Work Program:* Water, urban and energy projects in Central Asia countries.

*Strengths:* Knowledge of operations in water/urban and energy; experience in municipal finance and infrastructure; local governments capacity building, good team player.

*Education:* M.S. (Economics), 1998.

*Languages (other than English):* Kyrgyz (native), Russian (fluent).



**Maria AMELINA**, *Senior Social Development Specialist*, joined the World Bank in 1999.

*Work experience:* DEC, ECA (Macedonia, Moldova, Romania, Russia, Ukraine, Turkey) Southeast Asia (Indonesia, The Philippines, Thailand), Africa (Somalia).

*Current work program and area of expertise:* Local governance, budgeting processes, capacity building of local governments, public participation in governance, small grants programs; manages research and operational interventions in Russia and Romania; studies of agricultural policies

in the Philippines, Indonesia and Thailand; designs and implements components of projects pertaining to community development (e.g land registration projects, GEF grants).

*Strengths:* Strong research background in project impact evaluation, in designing and conducting studies of performance of local governments, of public participation in self-governance; operationally manages pilot interventions aimed to enhance effectiveness and transparency of local governments as well as public participation in public decision making, designs and implements allocation schemes for small grants programs.

*Education:* Ph.D., The Fletcher School of Law and Diplomacy, Harvard-Tufts Universities, 1999; M.A. in Law and Diplomacy, The Fletcher School of Law and Diplomacy, 1995.

*Languages (other than English):* Russian (native), Latvian, French, Spanish (fluent).



**Tijen ARIN**, *Senior Environmental Economist*, joined the World Bank in 1993 as a consultant and in 2002 as a staff member. She worked as a project economist on a variety of environmental and natural resources management projects, including protected areas management, forest management, integrated river and watershed management, environmental remediation, Black Sea and Danube Basin Investment Fund for Nutrient Reduction and avian influenza risk mitigation in Georgia, Azerbaijan, Kazakhstan, Turkey, Serbia, Montenegro, Bosnia and Herzegovina and Croatia. Coordinated Global Environmental Facility (GEF) Black Sea and Danube Partnership activities. Was instrumental in the identification and development of a significant part of the Bank's agriculture and environment portfolio in Serbia and Montenegro.

*Current Work Program:* Sector studies on environmental management in Turkey and Serbia; supervision of animal waste management project in Serbia; regional study on anaerobic digestion.

*Strengths:* Economic analysis; project development and supervision.

*Education:* M.P.A. (Economics and Public Policy) Princeton University; M.S. (Environmental Economics) Duke University.

*Languages (other than English):* German (fluent); French (fair); Turkish (native); Russian (survival).



**Maha ARMALY**, *Operations Officer*, joined the Europe and Central Asia region in 1992. During this period worked in both the country and sector units. Provided innovative approaches to portfolio management and took the lead on emerging issues of interest in Bank operations, e.g. procurement and financial management assessments of countries. A team member and task manager on several tasks in the urban sector encompassing energy efficiency and housing (Lithuania, Moldova, Belarus), municipal development and finance (Latvia, Moldova, Croatia, Turkey), culture and community development (Turkey, Bosnia, and Croatia). Responsible for project processing including financial and economic analysis and project implementation, contributing to sector and concept papers.

*Current Work Program:* Team member in several projects, with project operations and management responsibilities for projects in Belarus, Bosnia, Moldova and Turkey.

*Strengths:* Working in inter-disciplinary teams and integrating input of team members into workable documents, good relationship with clients and knowledge of Bank procedures.



*Education:* M.B.A. (Finance and Investments); B.A. (Economics) George Washington University.

*Languages (other than English):* Arabic (Native), French (Fair), Russian (Fair).



**Varadarajan ATUR**, *Senior Financial Analyst*, joined the South Asia Power group of the Bank in 1986 to assist in the financial analysis of operations in Bangladesh, Burma and Sri Lanka. As a key member of the team, he contributed to the development and adoption of electricity tariff policy in Bangladesh.

In the Middle East and North Africa Region from 1987 he worked on the power sector in Turkey, where he designed and helped implement the financial restructuring of the public power utility and structured financing for a private sector hydro power project. Subsequently, in the Europe and Central Asia Region, he designed the Bank's assistance strategy for telecommunications in Bulgaria and Romania. Prior to joining the Bank, he had management and consulting experience in the engineering and chemical industries, as well as academic experience teaching in the graduate business school in India.

*Current Work Program:* Power sector reform and privatization in Romania, including electricity market and trading; privatization and liberalization of telecommunications in Bulgaria and Romania; design of energy efficiency program in Romania; promotion of renewable energy in Romania through carbon trading using the Prototype Carbon Fund.

*Strengths:* Sector strategy, including sector policy for restructuring, competition and privatization; structuring and finance with multiple/private financiers, working with diverse stake holders.

*Education:* B.Sc. (Physics) 1974; M.B.A. (Procurement & Contracting), Mysore, India, 1977; M.B.A. (Finance and Investments) George Washington University, USA, 1990.



**Michel AUDIGÉ**, *Lead Transport Specialist*, joined the Bank in 1991 as Port Operations Specialist in the Africa region. He joined the Europe and Central Asia Region in 2002 as Lead Transport Specialist and he is currently a Program Team Leader for Poland, Turkey, Ukraine, and Russia. His area of expertise

includes road management and safety, railway restructuring and ports management and operations; Mr. Audigé has practical experience in public/private partnerships in ports (concessions) and transport infrastructure (PPPI/BOT); trade and transport facilitation procedures; and project management. He is skilled in Knowledge Management and information dissemination on recent developments in the transport sector, as well as in innovative World Bank lending new schemes (Sectorwide Approach projects, or SWAp, and reimbursable Technical Assistance). Mr. Audigé's experience in the Bank includes project identification, engineering design, appraisal and implementation, procurement issues (as Procurement Accredited Staff), Trust Funds management, risk analysis tools, organization of international seminars and workshops, trade and transport facilitation programs as well as dealing with environmental issues, including emergency recovery and disaster management.

*Other experience:* Direct experience in road maintenance and rehabilitation works, management of ports, airport and water sanitation networks, dredging works, coastal defense, hydrographic surveys, navigation aids and marine environment.



*Education:* Degree in Civil Engineering from the Ecole Nationale des Ponts & Chaussées (ENPC, Paris) and a Master of Science in Transport Management and Logistics (Paris IX, Dauphine). He is presently Ingénieur en chef des Ponts & Chaussées.

*Languages (other than English):* French (native), Spanish (intermediate) and Portuguese (beginner).



**Ani BALABANYAN**, *Operations Analyst in the Armenia Country Office*, joined the Bank in 2002. She works on the infrastructure and energy sector lending operations and on relevant sector studies. Prior to joining the Bank, she worked for Grant Thornton Amyot as an auditor for a year and for the Central Bank of Armenia as an economist in the Monetary Policy Department for two years.

*Current Work Program:* Energy sector reform, heating and energy efficiency, renewable energy and transport.

*Strengths:* Analytical and financial skills.

*Education:* ACCA (chartered accountant), CFA II level candidate; M.B.A. (Finance), Texas Christian University, USA, 2001; B.A. (Economics) Yerevan State University, Armenia, 1999.

*Languages (other than English):* Armenian (native), Russian (fluent), Farsi (fair).



**Husam BEIDES**, *Senior Power Engineer*. Before joining the World Bank in 2004, he worked as an Account Manager responsible for the transmission services at Pace Global Energy Services, Fairfax, U.S.A, as a Project Associate with Sargent & Lundy in Chicago, and as

a Senior Power Applications Analyst with Landis and Gyr Energy Management Systems in San Jose, U.S.A. His industry background includes extensive experience in power projects that involve transmission interconnection, feasibility, accessibility and impact studies as well as power market assessment. He has worked on projects that involved site selections, transmission interconnection and market evaluation for new energy projects. Mr. Beides also worked on projects that involved designing, developing, and evaluating Energy Management Systems (EMS) for the electric utilities control centers. Before joining the World Bank, he had worked on energy projects in the United States, India, Iceland, South Africa, and Russia.

*Current Work Program:* Energy sector infrastructure projects in Serbia and Montenegro, Kosovo, Macedonia, and Turkey

*Education:* Ph.D. (Electrical Engineering) Purdue University, Indiana, U.S.A, 1991.

*Languages (other than English):* Arabic (native).



**Janis D. BERNSTEIN**, *Senior Environmental Specialist*, joined the Bank in 1998 as a member of Europe and Central Asia (ECA) social development team, where she has been responsible for managing municipal solid waste management, carbon finance, cultural heritage/tourism, and wastewater and coastal zone management projects; (b) social analysis for the Region's infrastructure, environmental, natural resource management, and social development projects; and (c) managing non-lending activities covering community-based cultural tourism and heritage protection, institution building for pollution control and waste management, and environmental assessment. Prior to joining ECSSD as a regular staff member, Ms. Bernstein worked in the Bank's urban and environment anchors where she carried out

policy and operational work related to urban environmental management, solid waste management, pollution control, strategic urban and national environmental planning, urban land management and land registration; urban poverty assessment; and social assessment. In addition to her World Bank experience, Ms. Bernstein held positions at private environmental consulting firms working on a range of natural resource and environmental management issues. She has experience working in Albania, Belarus, Georgia, Kazakhstan, Poland, Russia, Ukraine, and Uzbekistan.

*Current Work Program:* Managing municipal solid waste management and carbon finance composting projects in Uzbekistan; managing cultural tourism and heritage protection activities in Uzbekistan and Georgia; participating in ESW on municipal service reform in Uzbekistan; and managing social assessments as well as social monitoring and evaluation for infrastructure projects.

*Strengths:* Project management, social analysis, social and beneficiary assessment, public participation, social monitoring for project evaluation.

*Education:* Master of Urban and Regional Planning (George Washington University); B.A. (Anthropology) William Smith College.

*Languages (other than English):* Spanish (fair), French (survival), Russian (beginner).



**Eustacius BETUBIZA**, *Lead Rural Development Specialist*, joined the Bank in 1993. In the Bank, he has managed or participated in investment projects or adjustment operations in Armenia, Azerbaijan, Cote d'Ivoire, Estonia, Ethiopia, Georgia, Ghana, India, Kazakhstan, Kyrgyz Republic,

Latvia, Lithuania, Mali, Sierra Leone, Tajikistan, Turkey, and Zambia. In addition, he has also peer-reviewed investment operations or AAA in Bangladesh, Brazil, Burkina Faso, Colombia, Democratic Republic of Congo, Kenya, Mongolia, Mozambique, Nigeria, Russia, Vietnam. Prior to joining the Bank, he was a rural finance researcher at the International Livestock Research Institute, a member of the Consultative Group for International Agricultural Research network.

*Current Work Program:* He currently leads or is a team member of projects in Kazakhstan, the Kyrgyz Republic, Azerbaijan, and Georgia. Currently, his work program includes supporting the setting up of private rural business advisory services systems, crop insurance programs (including weather-indexed insurance programs), promoting modern commodity exchanges, facilitating training to, and promoting financial product development among, financial institutions (banks, leasing companies, MFIs). He is also managing an ECA region-wide study of innovative rural financial products.

*Strengths:* Development of sector strategies and investment programs in Rural Finance and Agribusiness, including assisting in establishing a conducting legal and regulatory framework for these two sub-sectors.

*Education:* B.Sc., M.Sc. and Ph.D. (Agricultural Economics, majoring in Rural Finance). Author/co-author of several research papers.

*Languages (other than English):* French (fluent).



**François BOULANGER** joined ECSSD in September 2007 as an *Urban Finance Specialist*. Upon joining the Bank in 2005 through the Young Professionals' program, he first worked on urban and water projects in India and Pakistan, then moved on to the joint Bank-IFC

Subnational Finance Department where he participated in projects in Guatemala, Nigeria, and led business development efforts in Morocco. Prior to joining the Bank, he worked 7 years as a Development Engineer and a Finance Manager for Keolis, a private urban and mass transit operator, where, within multinational consortia, he structured and negotiated infrastructure finance, asset finance and guarantee transactions in 8 European countries, and developed innovative PPP agreements for urban rail.

*Current work program:* Azerbaijan Absheron peninsula rehabilitation, Serbia municipal ESW, subnational finance business development.

*Strengths:* Municipal & public utility finance, design of private-public partnership contracts, urban infrastructure, business development.

*Education:* Civil Engineer (MS), École Nationale des Ponts et Chaussées, Paris, France.

*Languages (other than English):* French (native), German (good), Spanish (intermediate), Italian (basic).



**Sandra BROKA**, *Technical Specialist*, joined the Bank as a Financial Specialist to work on a wide range of rural finance and private sector development projects in Europe and Central Asia Region. Her experience includes agricultural/rural finance development through the formal financial sector in Latvia, Kazakhstan, Moldova, and Armenia, as well as Bank's operations through a wide range of micro-finance organizations (formal micro-finance institutions, credit unions, group lending arrangements) in Albania, Kyrgyz Republic and Moldova. She has designed and implemented projects with a comprehensive approach to rural finance. This includes

support to the participating financial intermediaries to build their overall capacity and develop specific skills to work with borrowers in agricultural/rural sectors; designing of innovative financial instruments to facilitate access to finance in rural areas; and provision of financing for private business development in agricultural and rural sectors.

*Current Work Program:* Currently works on on-going rural/agricultural projects in Armenia, Kazakhstan, Kyrgyz Republic and Moldova, is a member of the team working on the design of a microfinance infrastructure project in Russia, and will take over management of the Bank's carbon finance portfolio in Moldova.

*Strengths:* Experience in rural development, micro-finance, access to rural/ agricultural finance through the commercial banking sector and non-bank financial institutions, and SME development. In-depth knowledge of ECA region.

*Education:* M.B.A., Riga Business School (in collaboration with SUNY at Buffalo, N.Y., U.S.A., and University of Ottawa, Canada), 1999.

*Languages (other than English):* Latvian (native), Russian (fluent).



**Gibet CAMOS-DAURELLA**, *Junior Professional Associate*, joined the Bank in September 2007 to work on transport projects in ECA. During her studies, she completed an internship at the Department of Urban Planning of the City Council of Praia, Cape Verde, working on the evaluation of a European Union project to improve living conditions of slum areas. She also coordinated and organized several activities with the non-governmental organization Engineering Without Borders, which selected her to coordinate a project of *Adressage* in slum areas of Yaoundé, Cameroon.

*Education:* B.Sc. (Civil Engineering), Technical University of Catalonia, Spain; M.Sc. (Transports and Urban Planning), Ecole Nationale des Ponts et Chaussées, France.

*Languages (other than English):* Spanish (native), Catalan (native), French (fluent), Italian (fluent), Portuguese (intermediate), German (intermediate), Arabic (beginning).



**Alison CAVE**, *Senior Urban Planner*, joined the Bank initially as a consultant on urban environmental issues in 1994. Recruited into the Bank in 1998, Ms. Cave has worked on municipal development, transport, urban infrastructure, urban environmental and historic preservation projects mainly in West Africa. Prior to the Bank, Ms. Cave worked with USAID on a decentralization and municipal development project in Egypt.

*Current Work Program:* Urban projects and ESW in Ukraine, Moldova and the Caucuses.

*Strengths:* Decentralization and urban governance (including fiscal decentralization and municipal finance), urban environment, planning and delivery of urban infrastructure and services, slum-upgrading, community-driven development (CDD), historic preservation.

*Education:* BA (Middle Eastern Studies), University of Wisconsin-Madison; MA (Economics/Public Policy), The Johns Hopkins School of Advanced International Studies; PhD (ABD) (Urban Planning), Massachusetts Institute of Technology.

*Languages (other than English):* French (fluent), Arabic (fluent), Turkish (fair), Russian (beginning).



**Rufiz CHIRAG-ZADE**, *Operations officer*, joined the World Bank in 1998. Previously, he worked for the Ministry of Agriculture of Azerbaijan as assistant to the Minister—coordinator of activities with international organizations. Worked in the Project Implementation Unit (under the Cabinet of Ministers) of the WB financed Farm Privatization Project before joining the Bank.

*Current Work Program:* The main responsibilities are (i) managing Avian Influenza project, supervision of on-going irrigation/rural development projects (RIDIP, IDSMIP, AZRIP) and participation in preparation of the proposed Real Estate Registration Project; (ii) maintaining periodic reports and statistics on the status of agricultural sector, carry out study of different aspects of agricultural development in Azerbaijan; (iii) provide field support to project teams and technical and analytical support for agricultural operations; (iv) liaise with the Government agencies to determine Government priorities and agricultural sector development programs and contribute to the overall policy dialog with the Government; and (v) coordinate WB rural development programs with other donor organizations.

*Strengths:* Operational skills; good relationship with client; responsiveness to client needs; constant supervision support to the projects.

*Education:* Graduate Diploma (M.S. equivalent) in Economics.

*Languages (other than English):* Azerbaijani (native), Russian (fluent), Turkish (good).



**Maria Donoso CLARK** joined the Europe and Central Asia Region as a *Lead Social Development Specialist* in 2006, after completing a four-year assignment in Lima, Peru, as the ESSD Country Sector Leader for the Andean Countries (Bolivia, Ecuador, Peru and Venezuela). As Sector Leader, she managed a portfolio

of over 50 tasks in three sectors. She was also the Task Team Leader for two regional development projects: Peru Sierra Rural Development and Ecuador Chimborazo Development. She began her development career working with a US consulting firm and subsequently worked for 6 years with the Inter-American Development Bank. Since she joined the World Bank in 1985, she has held several positions in various sectors: rural and social development, environment, health and human resources as Policy Specialist, Task Team Leader and Sector Leader. During her career, she has worked in more than 25 countries in Asia, Africa, Latin America and the Caribbean on issues of policy, programs and projects. Her work on the India Tuberculosis Control Project won an award from the Society of Applied Anthropology for its successful integration of technical, social and cultural considerations in project design and implementation. She has also authored ESWs and policy notes on various topics including Youth Development, Territorial Development and Social Inclusion, and has contributed to other sector work in Rural, Social Development and the Environment.

*Strengths:* Extensive knowledge of Bank operations and a good understanding of development issues at the macro and micro level, including institutional issues. Knowledge and experience in areas related to spatial development (regional, local). Recognized for strong communication and analytical skills. Able to provide effective support on social, institutional and operational issues in several sectors including agriculture, infrastructure, environment, health and education. Also effective on client engagement, consensus building, skills development and mentoring.

*Education:* Ph.D. (Applied Anthropology) American University; Master's in Applied Linguistics/Anthropology, Georgetown University; B.A. (Education and Latin American History) University of Massachusetts, Amherst; Executive Development Program—IMD, Laussane, Switzerland.

*Languages (other than English):* Spanish (native), Portuguese (fair), French (intermediate).



**Pierre-Olivier COLLEYE**, *Senior Microfinance Specialist*, joined the World Bank as a Private Sector Development Specialist. His experience ranges from post-privatization assistance in Kazakhstan to leading the Bank's effort on enhancing the competitiveness of the private sector in Morocco and El Salvador. He has also

been advising the Government of South Africa on globalization and competitiveness issues. More recently, Mr. Colleye has worked on enhancing access to rural/agricultural finance and agricultural competitiveness in Eastern Europe where he manages a number of projects. Country experience includes Mexico, El Salvador, Brazil, South Africa, Mali, Burkina Faso, Morocco, Lebanon, Kazakhstan, Azerbaijan, Russia, Albania, Bosnia, Moldova, Croatia, Serbia, Romania and Moldova.

*Current Work Program:* Currently managing rural/agricultural projects in Romania and Moldova, working on the design of a microfinance infrastructure project in Russia and supervising an agricultural/project in Bosnia.

*Strengths:* Operational in Rural Finance and Private Sector Development.

*Education:* Master in Public and Private Management, Yale University School of Management.

*Languages (other than English):* French (native), Spanish (intermediate).



**Vickram CUTTAREE, Infrastructure Finance Specialist**, joined the Bank in 2003 through the Young Professionals Program. He previously worked in the East Asia and Latin America regions, on a number of middle-income and IDA countries, including China, Vietnam, Argentina, Uruguay and Bolivia. His transport experience

has been focused on railways and logistics, road asset rehabilitation and management, institutional strengthening, and urban transport. His infrastructure financing experience includes public expenditure review, financial analysis and modeling, setting-up of a PPP framework, use of Partial Risk Guarantees, and analysis of sub-sovereign risk. Prior to joining the Bank, Vickram was the Head of the Public-Private Partnership Unit in Mauritius and previously worked in the private sector as a Consultant in Strategy.

*Current work program:* transport projects in Russia (fee-for-service in urban transport), Croatia (ports), Turkey (railways) and Ukraine (roads and safety);

*Education:* MBA Finance & Strategy, Yale University—MSc. Mechanical & Industrial Engineering, Ecole Nationale Supérieure d'Arts et Métiers (France);

*Languages (other than English):* French (native), Spanish (Intermediate High).



**Mohammed DALIL-ESSAKALI, Infrastructure Economist**, joined ECA infrastructure unit in July 2005 as a Young Professional. He is now a member of the transport teams in Bulgaria and Romania, and he is developing with other team members the urban transport portfolio in the ECA region. Before coming to ECA,

he had multi-sector assignments for four years in the water,

urban and transport sectors in Africa, South Asia, and the Middle East and North Africa regions of the Bank. Prior to joining the Bank, he worked for more than three years as an economist at the Montreal Metropolitan Transport Agency in Canada, and he had also been providing advisory services to several international development organizations in the field of infrastructure. He holds a Master's degree in transport economics and planning from Montreal Polytechnic School in Canada, and he is a graduate of the Ecole Nationale des Ponts et Chaussées in Paris where he majored in infrastructure economics and industrial organization. In addition to English, he is fluent in Arabic and French and has a working knowledge of Spanish.



**Drite DADE, Projects Officer**, joined the World Bank in 2001. Previously worked at the United Nations Development Program/GEF Regional Project on Conservation of Coastal biodiversity in the Mediterranean (MedWetCoast) as the project manager and at the National Environmental Agency (former Ministry of Environment) as an International Relations Officer.

*Current Work Program:* Integrated Coastal Zone management and Cleanup Program (APLI); Natural Resources Development project; Second Community Works Project; Lake Shkodra Integrated Ecosystem management (GEF); Butrinti National Park: Global Biodiversity and Heritage Conservation (GEF/MSP); Karavasta Lagoon Conservation and Management (GEF/MSP). Enabling Activities—Assessment of Capacity Building Needs and Country Specific Priorities in Biodiversity Conservation (PHASE II) GEF.

*Strengths:* Institutional development, environmental policy and legislation, community-based development and project management.



*Education:* M.A. (European studies - European environmental law); B.A. (Public Law—international environmental law); B.A. (Foreign Languages—English language).

*Languages (other than English):* Albanian (native), Italian (good), German (fair).

**Peter A. DEWEES**, *Lead Environmental Specialist*, joined the Bank in 1994. He has worked in the Europe and Central Asia (ECA) Region since 2002, and has been responsible for activities related to the forestry, watershed management, and nature protection subsectors, with a particular interest in the role and impact of EU accession on these sectors. In 2005 he completed a major analytic study on how forest institutions in ECA have responded to the economic transition, focusing specifically on the challenges of institutional reform. Prior to joining ECSSD, he held the position of Lead Natural Resource Management Specialist in the Africa Region, where, in addition to his natural resource management portfolio, he also worked on issues related to environmental policy and institutions; refugee resettlement and reintegration; the conservation and development of cultural heritage; woodfuel management; and community-driven development activities in Ethiopia, Eritrea, Tanzania, and Kenya.

*Current Work Program:* Task managing the Romania Forest Development Project; the Turkey Biodiversity and Natural Resources Management Project; the Turkey Anatolia Watershed Rehabilitation Project; and assisting in management of the Armenia Natural Resources Management and Poverty Reduction Project. Leading a regional study on dry woodland management for poverty reduction in Southern Africa.

*Strengths:* Economic and policy analysis; Natural resource management; participatory management and community-driven development.

*Education:* DPhil Forestry and Economics (Oxford University); MA Natural Resource Economics and Policy (Duke University); BS Biology and History (California Institute of Technology).



**Eleanor Jose DILA** is currently a *Program Assistant* in the Sustainable Development Department in the Europe and Central Asia Region (ECA). She joined the World Bank in April 1986 and was assigned to the Office of the Chief Administrative Officer. She moved on to work in Latin America Region's (LAC)

Country Department III, Caribbean Division in August, 1990 as a Staff Assistant. In May 1993, as a Senior Staff Assistant, she transferred to ECA's Country Department II, Human Resources Operations Division. During ECA's reorganization in July, 1997, she was given the assignment to work in the Region's Rural Development and Environment Sector Unit. She holds a Bachelor's degree major in Hotel and Restaurant Administration from the University of the Philippines. Her strengths are in the wide administrative spectrum and financial aspect as she is in charge of hiring consultants and firms.

*Languages (other than English):* Tagalog (fluent), Spanish (survival).



**Istvan DOBOZI**, *Lead Energy Economist*, joined the Bank in 1992. He has worked on energy sector issues in the ECA region, including investment operations and policy work in Kazakhstan, Bulgaria, Slovakia, the Czech Republic, Ukraine, Belarus and Georgia. Co-authored the book "Energy and Economic Reform in the Former Soviet Union" and published numerous articles

in leading journals, including *Resources Policy*, *Natural Resources Forum*, *Minerals and Energy*, and *Oxford Energy Forum*. He is on the International Editorial Board of *Resources Policy* and *Minerals and Energy*. Before joining the Bank, he was Professor of Mineral Economics at the Colorado School of Mines, Golden, Colorado, and Professor of Economics at the Arizona State University, Tempe, Arizona. Previously, he was Director of Development Research in the Institute for World Economy in Budapest, Hungary.

*Current Work Program:* Energy Program Team Leader for Kazakhstan, Bulgaria, Slovakia and Hungary. Task Team Leader for Kazakhstan North-South Electricity Transmission Project, Kazakhstan Electricity Transmission Rehabilitation Project, and Bulgaria Energy Efficiency Project, all under implementation, as well as energy sector technical assistance in Bulgaria, Slovakia and Hungary.

*Strengths:* Project identification, conceptualization and development; energy tariffs (design and policy analysis); energy efficiency policies/projects; energy demand analysis (including modeling); international energy trade; and energy/macroeconomic linkages.

*Education:* Ph.D. (Natural Resources Economics), University of Economics, Budapest, 1978.

*Languages (other than English):* Hungarian (native), Russian (fluent).



**Jane EBINGER**, *Energy Specialist*, joined the Bank in 2003 following a secondment to the Bank under a staff exchange program with BP. Before joining the Bank, she worked for fifteen years in the oil and gas industry, primarily with BP and BHP Billiton (Australia). She has held a number of technical and leadership positions,

focusing primarily on safety and risk analysis, environmental assessment and management, oil spill response, external affairs and community liaison. Since being associated with the Bank, she has been primarily involved in energy and transport projects with an environmental focus, as well as carbon finance initiatives. Since 2003 she has been the Regional Coordinator for Carbon Finance.

*Strengths:* Environmental management, project management and implementation.

*Education:* M.A. (Mathematics), Oxford University; M.S. (Mathematical Modeling and Numerical Analysis), Oxford University.

*Languages:* French (fair), Italian (fair).



**Usaid EL-HANBALI**, *Senior Water Resources Engineer*. Prior to joining the Bank in 1989, Mr. El-Hanbali worked for 19 years as a design and construction engineer. During that period, he worked as a consultant in Jordan and in the region, and for the Government of Jordan in several positions including Head of Design, Study and Planning Division, and Director of Irrigation Department, Jordan Valley Authority, Ministry of Water and Irrigation. In the Bank, worked in several regions including Asia Technical Department, China Country Department, Middle East Region, and Europe and Central Asia Region. Work experience in the Bank includes managing several water resources projects as well as agricultural development projects which included a major component on water resources; was also involved in preparation of some sector work, including preparing strategies on water resources and agriculture, and supporting numerous projects in the above areas.



*Current Work Program:* Task Team Leader for three projects in Tajikistan, one project in Serbia and preparation of a project in Croatia and Bosnia. Participation in other projects in Armenia, Albania and Moldova.

*Strengths:* Extensive knowledge and experience in all water resources development aspects including irrigation, drainage, flood control, dams and water management; experience in rural development and water users organizations.

*Education:* B.Sc. (Civil Engineering); M.S. (Irrigation Engineering).

*Languages (other than English):* Arabic (native), French (good), Russian (survival).



**Charles FEINSTEIN**, *Sector Manager*, joined the World Bank in 1988 as an Energy Planner after serving for two years as a consultant. In 1991, he became a Senior Environmental Specialist in the Environment Department's Global Environment Unit, and was appointed as its Chief in 1997. He transferred to the central Energy Department as ESMAP Principal Operations Coordinator in 2000 before joining the Latin America/Caribbean Region (LAC) in 2002. In LAC, he served as Lead Energy Specialist and Sector Leader for Finance, Private Sector and Infrastructure (FPSI) for the Caribbean Country Management Unit, and was simultaneously responsible for coordination of the LAC carbon finance portfolio.

Prior to joining the Bank, he served as a U.S. Peace Corps Volunteer and then Peace Corps Associate Country Director. His accomplishments include overseeing the initial development of the GEF climate change project portfolio, co-authorship of the World Bank's Environmental Strategy for the Energy Sector strategy paper ("Fuel for Thought"), and fostering new public-private partnerships for market-

based systems for emissions abatement. In LAC, he led the re-opening of energy sector dialogue and operations in Mexico, and built-up CMU confidence in FPSI delivery capacity through active portfolio management.

*Current Work Program:* Management of the Energy Sector Unit for Europe and Central Asia Region.

*Strengths:* Development of energy sector and multi-sector strategies; analysis of linkages between energy development and the environment; renewable energy technologies and policies; project economic analysis; managing project teams; and relationship management with country teams.

*Education:* B.S. (Electrical Engineering), University of California at Los Angeles; M.A. (Resource Economics) East-West Center/University of Hawaii.

*Languages (other than English):* Spanish (advanced); French (fair); Samoan (good).



**Ruxandra Maria FLOROIU**, *Environmental Engineer*, joined the World Bank in June 2001 as Summer Environmental Consultant (Internship program) in LCSEN and ENVMP; then, in June 2003 as a short-term consultant in ECSSD and cross-support ECSIE; extended-term consultant as of August 2005.

*Work experience:* Environmental and Sanitary Engineer specialized in water and wastewater pollution, persistent organic pollutants (POPs) cleanup, arsenic/heavy metals soil/groundwater remediation; carried-out environmental compliance diagnostic review for "Piloting the Use of Country Systems OP 4.00" for Romania and Bulgaria; member of the ECA regional safeguards team providing environmental EA/EMP reviews; regional experience in Kazakhstan, Albania,

Ukraine, Turkey, Moldova, Bulgaria and Romania; advising on implementing appropriate environmental policies and measures to problems in water and wastewater pollution management, solid waste management, and persistent organic pollutants cleanup, and providing technical guidance on environmental safeguards application to regional projects; reviewing/analyzing environmental regulations, pollution prevention and abatement policies and providing safeguards training; advising on monitoring and recording levels of pollutants; Pre-Bank Experience: Lecturer, University of Maryland Professional Master of Engineering Program—taught course on state-of-art biology-based technologies for water resources and environmental management; Environmental Consultant at ICF Consulting (US)—performed technical evaluation for EU on CFCs use; developed renewable energy evaluation for EPA; prepared market study on LAC CFC production and consumption phase-out; formulated environmental policies related to hazard mitigation for the US National Academies; Environmental Reviewer for scientific papers and research proposals in environmental engineering domain in journals *Environmental*, *Science & Technology*, and *Water Research*.

*Current Work Program:* Operational and analytical work in Infrastructure—water supply (Bulgaria, Croatia); water resources management (Tajikistan, Serbia, Bosnia-Herzegovina); transport (Romania, Bulgaria); and Environmental Cleanup—mercury river cleanup (Kazakhstan); industrial heavy metal soil remediation (Kazakhstan, Albania); coastal zone management (Albania); land reclamation and management (Kosovo; Albania); Environmental Safeguards work—project activities compliance with environmental policies; guidance on preparation of project environmental policy frameworks and EA/EMP process; Environmental Safeguards Reviewer for ECA Region—environmental reviews: ISDS/EA/EMPs reviews and technical discussions for projects at Concept/PAD stage.

*Strengths:* In-depth knowledge of infrastructure and brown environmental issues and policies; environmental safeguards technical support to infrastructure projects, evaluation of EU country environmental management systems; ability to effectively work with different teams; strong client management skills.

*Education:* B.Sc. (Civil Engineering) Technical University, Bucharest, Romania; M.S. and Ph.D. (Environmental Engineering) University of Maryland, College Park, MD.

*Languages (other than English):* Romanian (native), German, Spanish (fair), Russian (intermediate).



**Lisa FONICK HAWORTH, Sr. Program Assistant**, joined the Bank in 1988. She has worked in the ECA and MENA Regions as an Administrative Secretary and was previously Officer Manager of ECSIE from 1997–2003. She currently works in the water and urban sector supporting projects in Kazakhstan, Macedonia, and Tajikistan and also assists with editing throughout ECSSD. As part of her work program this year, she was responsible for updating the 2007 Profile of Sustainable Development Department Activities. She has served on various Human Resources and Staff Association Committees and has a strong interest in personnel and administrative management.

*Education:* B.A. (International Studies and French) American University; M.A. (Teaching Writing and Literature) George Mason University.

*Languages (other than English):* French (advanced high), Spanish (basic).



**Stjepan GABRIC**, *Operations Officer*, joined the Bank in 2003. Mr. Gabric spent more than ten years working as a project leader and a principal designer in the civil engineering sector; he has an extensive experience in the field of water and wastewater. A graduate of the Civil Engineering School in Zagreb, Croatia,

he completed postgraduate studies at the International Institute for Infrastructure, Hydraulics and Environment (IHE) in Delft, The Netherlands.

*Current Work Program:* Railway sector restructuring and modernization, electricity sector reform in Croatia, energy efficiency, renewable energy resources, wastewater collection/treatment/disposal, flood protection, water supply, sea port rehabilitation, road construction, trade and transport facilitation.

*Strengths:* Experience in infrastructure development and project management, in depth knowledge of water supply and wastewater sector.

*Education:* M.S., IHE Delft, The Netherlands.

*Languages (other than English):* Croatian (native), German (good), Serbian/Macedonian/Slovenian (good).



**Anna GEORGIEVA**, *Operations Officer*, joined the Bank in 2000. Prior to joining the Bank, Anna worked as the managing director of an international consultancy company leading projects and performing analytical studies, including for the World Bank, in countries of Eastern Europe such as Hungary, Poland, Bulgaria, and the Czech republic. Previously she worked as a researcher in the National Research Center of Bulgaria. Author of articles

and research papers on agriculture and rural development, correspondent of Agra Europe, UK. In the Bank Anna focused on developing the rural sector agenda in the region, managing successfully projects at risk, analytical work and country management assignments.

*Current Work Program:* Task Team Leader and team member in land administration, rural development, agriculture, biodiversity projects in Bulgaria, Russia, Bosnia and Herzegovina, Serbia, Macedonia.

*Strengths:* Recognized for problem solving in complex projects and implementation improvement in projects at risk. Good knowledge of EU institutions and programs, and developed contacts with the EC. Experience in project management and business development in land administration, rural development, regional development, agriculture and food industry, environment projects. Managerial, analytical, organizational and presentation skills.

*Education:* economist, M.A. (International Economic Relations), M.A. (Languages), studies in Sofia University of Economics, Wye College, UK and Arizona State University, U.S.A.

*Languages (other than English):* Russian (native), Bulgarian (native), Italian (fluent).



**Daniel P. GERBER**, *Institutional Specialist (Extended Term Consultant)*, joined the Bank in 1996. He worked in the private sector in mechanical engineering field as a systems engineer in Switzerland involved in installing new production line, and later as a manager of the technical publications department of a US subsidiary of a German engineering firm. Daniel began working with the Bank in 1996 as short-term consultant. Since that time, he has been involved with rural development

work, focusing of farmer/user groups specifically in the field of irrigation, but also with cooperatives and farmer-owned business development. He spent three years in Jordan as a local program manager on a Bank-led cooperative sector reform program managing a service center providing business advice to cooperatives, and working with lawyers and specialists in developing a new cooperative legislation.

*Current Work Program:* Involved in farm privatization support, irrigation and water resources management in Tajikistan; in Balkan countries—Macedonia, Albania and Bosnia—in irrigation and water resources management, as well as commercial agriculture development, including supply chain development and rural credit.

*Strengths:* Strong team player, task oriented and focused on problem solving, with good communication skills. Project preparation and design as well as implementation supervision. Significant experience with formation, registration of user/member owned organizations, their management structures and operations, as well as business plan development.

*Education:* Ecole Professionnelle, Bienne—Mechanique Generale, Switzerland, 1984; B.Sc. (Management) Southeastern University, 1995; M.B.A. (Financial Management), Southeastern University, 1996.

*Languages (other than English):* French (native), German (fluent), Italian and Spanish (intermediate), Russian and Arabic (beginner).



**Franz GERNER**, *Energy Specialist*, joined the Oil and Gas Policy Group of the World Bank/IFC in July 2003 focusing on the development of gas markets in Middle East and North Africa (Egypt, Jordan, Yemen, Lebanon), and Asia (Indonesia, Pakistan). Prior to joining the Bank, Franz

worked for National Economic Research Associates (NERA) in its London and Sydney offices as an energy economist working on power and gas market regulations, sector reform and restructuring issues mostly in the UK, Germany, Bosnia & Herzegovina and Australia. At the Infrastructure Department, Franz will focus on developing energy markets in the region with a particular focus on gas markets.

*Strength:* Economic regulation, energy pricing, reform and restructuring of gas and electricity markets.

*Education:* Ph.D. (Economics).

*Languages (other than English):* German (native), Mandarin and French (Intermediate).



**Sandu GHIDIRIM**, *Operations Officer in Moldova Country Office*, joined the Bank in 1998. He works primarily on infrastructure and energy sector projects. He has been involved in supervising investment lending projects and relevant sector studies in Moldova. Mr. Ghidirim is also involved in a broader policy dialogue and related adjustment lending operations, provides assistance and inputs for Moldova EGPRSP, and is member of the CAS Core Team for Moldova. Prior to joining the Bank, he worked as consultant for National Agency for Housing and Real Estate Services and a number of UNDP and TACIS funded projects. Mr. Ghidirim worked as a lecturer and researcher in Moldovan Academy of Public Administration. He has published a textbook in Public Management.

*Current Work Program:* On site supervision and monitoring of the: Energy II Project and Energy Sector Reform Program; Roads Sector Program Support Project and Land Transport Sector Reform Program; Pilot Water Supply and Sanitation Project; Environmental Infrastructure GEF Project; National

Water Facility (preparation); First Cadastre Project; Trade and Transport Facilitation in South-East Europe; Moldova Poverty Reduction Strategy Credit (Energy and Infrastructure cluster); CAS; EGPRSP. He is actively involved in energy and infrastructure sectors policy dialogue.

*Strengths:* Projects supervision and implementation experience; project preparation and related analytical sector activities; infrastructure and energy policy; energetic and active team player.

*Education:* Degree in Business Administration and Planning from the Chisinau Academy of Economic Studies (Moldova).

*Languages (other than English):* Romanian (native); Russian (excellent); French (fair).



**Maninder GILL**, *Sector Manager*, joined the World Bank in 1993 as a long term consultant and in 1995 as a sociologist. Prior to joining the Bank, he worked in India, in the private sector for two years in marketing and corporate strategy, and in the government for seven years, holding positions of city manager, coordinator of rural development programs, and in territorial administration and Infrastructure project management. In the Bank, he worked in the Asia Technical Department from 1993–1997, providing operational support to over two dozen projects and contributing to ESW. In 1997, he joined the Social Development Department in the anchor as the Bank’s coordinator on involuntary resettlement issues, assisting in operations and sector work across the Bank and undertaking various corporate responsibilities including interaction with various internal (OED, QAG, Inspection Panel, and the Committee on Development Effectiveness) as well as external (other bilateral and multilateral institutions as well as media) on involuntary resettlement issues. In the year 2000, he moved to the

then newly formed Quality Assurance and Compliance Unit (QACU), as a deputy to the senior advisor heading the unit, coordinating the work on Bank’s social safeguard policies, and leading the effort to revise the Bank’s operational policy on involuntary resettlement. He joined Europe and Central Asia Region’s Environmentally and Socially Sustainable Development unit in 2004 as sector manager, focusing on social development issues across the region.

*Strengths:* Social analysis of policy and operational interventions; Involuntary Resettlement; Indigenous Peoples and Natural Resource Management.

*Education:* B.A. (Economics); M.B.A.

*Languages (other than English):* Hindi (good), Punjabi (good), Urdu (fair), Marathi (good).



**Dmytro GLAZKOV**, *Operations Analyst in the Ukraine Country Office*, joined the Bank in 2005. He works on infrastructure and energy sector lending operations and on relevant sector studies. Prior to joining the Bank, he worked for the Dutch Consulting firm Tebodin Consultants & Engineers as a senior environmental expert for three years carrying out a wide array of environmental projects, EIAs, environmental due diligences, environmental audits, implementing Environmental Management System based on international standard ISO 14001 and served as an EMS certified auditor.

*Current Work Program:* Energy sector reform, heating and energy efficiency, renewable energy and transport. Environmental Safeguard expert and Carbon Finance projects in Ukraine.

*Strengths:* Analytical and financial skills.

*Education:* ISO 14001 EMS Auditor; MSc. (Environmental Management), Yale University, USA, 2002; MSc. and BSc. (Environmental Engineering) Kharkiv State Politechnic University, Ukraine, 2000.

*Languages (other than English):* Ukrainian (native), Russian (native), French (fair).



**Anatol GOBJILA**, *Senior Operations Officer*, joined the Bank in 1997 as a long-term/short-term consultant and in 2005 as regular staff. He is based in the Moldova Country Office. Throughout his years in the Bank, he covered a variety of topics related to agriculture, environment, rural development and micro-finance.

In 2004 he left the Bank to pursue educational endeavors, but returned in 2005 after graduation. Upon his return, he quickly got involved in the implementation of a series of Bank projects, including activities on Persistent Organic Pollution, preparedness for Avian Influenza outbreaks, Carbon Finance in forestry and energy, and the use of renewable energy resources. Before joining the Bank, Mr. Gobjila, worked for the Moldovan Ministry of Transport and a number of USAID funded projects in Moldova. His country experience includes Moldova, Bosnia and Herzegovina, Uzbekistan, Kazakhstan, Tajikistan, and Ukraine.

*Current Work Program:* Task manager for a number of rural and environmental projects for Moldova.

*Strengths:* Project implementation; agriculture policy.

*Education:* Master of Public Policy, Princeton University.

*Languages (other than English):* Romanian, Russian, French.



**Matthias GRUENINGER**, *Senior Agricultural Economist*, joined the Bank through the Junior Professional Officers program in 1999 after working in research and development for four years, focusing on farming systems development and natural resource management in South-East Asia (Indonesia). Until early 2006

he worked in the Middle East and North Africa Region on dryland management, agricultural competitiveness and export promotion, and rural community development (Yemen, Egypt, Jordan, Lebanon). In the second half of this assignment he was increasingly involved in policy work and emergency recovery projects in conflict-affected areas in the West Bank / Gaza and Iraq. He also managed the development of the Bank's regional response program for avian influenza in the Middle East and North Africa until he joined the Europe and Central Asia Region in April 2006.

*Current work program:* Regional coordinator for Avian Influenza operations; team leader for AI operations; team leader for agricultural policy and operational work with particular focus on agricultural competitiveness and food safety. Country focus: Ukraine, Romania.

*Strengths:* Preparation of sector investment programs in agriculture and rural development; Cross-sectoral concepts and collaboration; Agricultural competitiveness, marketing and export promotion; Food safety; Agricultural and environmental knowledge and information systems; Community-driven development.

*Education:* Doctor's degrees in Agricultural Sciences (Major: Farming and Rural Systems Economics); Master's degree (Dipl.-Ing. agr.) in Agricultural Sciences (Major: Plant Production); both from University of Hohenheim, Germany.

*Languages (other than English):* German (native), French (fair), Indonesian (survival), Russian (beginner)





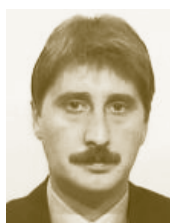
**Maurizio GUADAGNI** is a *Senior Rural Development Specialist* who has been with the World Bank since 1993. He has operational and analytical experience in agricultural and rural development investments and policies, including agricultural support services,

competitiveness, rural finance, marketing, decentralization, and demand-driven rural investment funds; and (ii) natural resources and environmental management, and carbon trading. Field experience in Central Asia, Latin America and Africa: Kazakhstan (where he has been based for 4 years), Zambia (where he has been based for 2 years), Uzbekistan, Nicaragua, Kyrgyz Republic, Angola, Panama, Ecuador, Burkina Faso, Bolivia, Tajikistan, Brazil, Colombia, Azerbaijan, Ghana, Guatemala, Kenya, Mexico, Mozambique, Turkmenistan, and Namibia (in order of decreasing experience).

*Current Work Program:* Task Team Leader of the following six projects: (i) Agricultural Competitiveness in Kazakhstan, (ii) Rural Enterprises Support in Uzbekistan, (iii) Tien Shan Biodiversity in Central Asia, (iv) Agricultural Investments and Services in the Kyrgyz Republic, (v) Avian Influenza in the Kyrgyz Republic, (vi) Agricultural Support Services in the Kyrgyz Republic. Involved in the Avian Influenza projects in Uzbekistan and Turkmenistan.

*Education:* Master in International Public Policy, School of Advanced International Studies (SAIS), Johns Hopkins University. MSc. (Laurea) on Agricultural Production and Economics, University of Perugia (Italy).

*Languages (other than English):* Italian (native); Spanish (fluent); Russian, French, Portuguese (fair).



**Artan GUXHO**, *Projects Officer*, joined the World Bank in 1999. He has seventeen years of experience in roads, railways, bridges (and other structures) design/construction and maintenance. His previous experience includes seven years as a manager and technical director of Albanian Road Administration and project management units. Mr. Guxho is a Vice Chairman of the Albanian Association of Transport Engineers and a lecturer in Tirana University, Civil Engineering Faculty.

*Publications:* Road maintenance Privatization, Stability of soil in the structures foundation (Ballsh, Albania); Preliminary study and technical-economic analysis of the Fushe Kruja—Mamurras Road section in the Northern Corridor of Albania, Albanian Civil Engineering Magazine.

*Education:* University of Tirana, School of Civil Engineering.



**Sodiq HAITOV**, *Operations Officer (Energy & Infrastructure)* joined the World Bank in 2006. Prior to his current assignment, he spent three years at Aga Khan Fund for Economic Development, where he was responsible for daily supervision of a Pamir Private Power Project's implementation in terms of

procurement of materials/equipment, inventory control and management, other financial and legal caveats. His previous experience of working also includes marketing and sales at a private, NYC-based Internet Service provider, where he was in charge of the company's marketing program and business development efforts with Fortune 1000 companies in the United States, Puerto Rico and Alaska. He has also gone through an eight week internship program at Global Village for Future Leaders of Business and Industry organized by Iacocca Institute of Lehigh University, where he was part

of a project team that developed strategic marketing and e-commerce plan for a new venture involved in skincare product development. His current portfolio entails three sectors: energy, urban water supply and sanitation and transport. His past-year accomplishments encompass, but not limited to, building and nurturing high-level relationships with the Government of Tajikistan, promotion of the Bank's program for energy sector reforms, participation in project preparation and conclusion of supplementary financing for a water supply project, participation in preparation of a regional electricity trade project involving public private and IFI partnerships, re-engagement of the Bank in transport sector development through development of policy advisory notes and other AAAs, etc. His international exposure covers the United States and Hungary.

*Current Work Program:* Sadiq is currently based in Dushanbe, Tajikistan and he's responsible for overall coordination of energy urban water supply and sanitation and transport sectors. He also takes part in the design, preparation, appraisal, negotiation and supervision of the programs, projects or components in energy and infrastructure, and participates in identification and development of opportunities in cross-sectoral collaboration among the energy and infrastructure task teams and other World Bank activities, etc.

*Education:* MBA (Marketing and International Management), Weatherhead SOM at Case Western Reserve University, Cleveland, OH USA; MS (Mechanical Engineering), Tajik Agrarian University, Dushanbe, Tajikistan; BS (Agriculture Engineering) Murray State University, Murray KY USA.

*Strengths:* Energy and Urban WSS sector reform, project finance, financial analysis, marketing, business development and sales. Currently working on CFA.

*Languages (other than English):* Tajik-Persian (native), Russian (fluent), Uzbek (good), French (elementary)



**Gulana HAJIYEVA**, *Environmental Affairs Officer*, joined the Bank in 1999 as consultant and in 2000 as regular staff. Prior to joining the Bank, participated in studies on wastewater treatment technologies (Azerbaijan State Oil Academy) and in preparation of ecological certificates (passports) for industrial entities, worked in the energy sector, and was involved in projects on designing energy infrastructure for rural areas.

*Current Work Program:* Identification, preparation and supervision of environmental projects in Azerbaijan (natural resources management, environmental clean-up, biodiversity conservation, institutional strengthening), contribution to sector studies, and support to the Carbon Fund activities.

*Strengths:* Environmental management, project development and implementation, client relations.

*Education:* M.S., Environmental Sciences and Policy, Central European University (accreditation of the Manchester University, UK), Budapest, Hungary, 1999; Thermal Engineer (Diploma with distinction), Azerbaijan State Oil Academy, Baku, Azerbaijan, 1993.

*Languages (other than English):* Azerbaijani (native), Russian (fluent).



**Ellen HAMILTON**, *Senior Urban Planner*, joined the Bank in 1996. She has ten years project preparation and supervision experience in low and middle-income countries (Russia, Lithuania, Georgia, Azerbaijan, Moldova, Kyrgyz Republic and cross-support in Pakistan). She has experience with a broad variety of projects in areas ranging from housing to municipal



service provision, municipal management, urban upgrading, municipal development funds, social funds, post-conflict reconstruction and land cadastre and registration. Recent project preparation experience includes a multi-sectoral DPL in Pakistan to support economic growth in the largest cities in the Punjab. She is currently working with environment, urban and water colleagues on preparation of the Absheron Rehabilitation Project, which will support a diverse clean up program in Azerbaijan. Ellen also has substantial experience as a task manager and team member for analytical work on urban poverty, municipal service provision, housing and land markets, and urban upgrading.

*Current Work Program:* housing and urban services analytical work and policy advice, urban poverty, task management of on-going project for internally displaced people in Azerbaijan, as well as of a new operation to support additional financing for this project. As team member, contributing to project preparation in Pakistan, Azerbaijan and the Kyrgyz Republic.

*Strengths:* Urban poverty, urban services, housing and land, and urban development.

*Education:* Ph.D. (Geography), Columbia University, M.A. (International Affairs); Columbia University; B.A. Yale University; Certificate in GIS; University of Southern California.

*Languages:* English (native); Russian (fluent); Spanish (intermediate high).



**Bjorn HAMSO**, Senior Energy Economist, joined the Bank in 1999. In 1992–95, he was a long-term consultant for the Bank, working on oil and gas sector privatization in Bolivia and as an advisor on a gas export project (pipeline to Brazil). He was also involved in energy sector reviews in Lithuania and Bulgaria, technical assistance in Turkmenistan, and lending operations

in Ukraine. Since 1999, Mr. Hamso has managed energy projects in Russia and is currently Program Team Leader for the Bank's energy projects in Azerbaijan, Georgia, Armenia, and Serbia. Before joining the Bank, Mr. Hamso worked for Statoil, a Norwegian energy company, as a Marketing Director in charge of power marketing in Scandinavia. During the 1980s, he was involved in Norwegian gas exports. He has also spent two years in the U.S. gas and power industry.

*Current Work Program:* Managing the Bank's energy project portfolio in the South Caucasus and maintaining an energy policy dialogue with the countries.

*Strengths:* Extensive private sector experience in competitive markets; project development; experience in natural gas, power, and district heating; analytical thoroughness; team player.

*Education:* Master's degree from the Norwegian School of Economics and Business Administration, Bergen, Norway.

*Languages (other than English):* Norwegian (native), German, some Russian.



**Svetlana HOERSCH**, Operations Analyst in the Russia Country Office, joined the Bank in 2006. Prior to joining the Bank, she worked for a private investment company as Business Development Manager.

*Current Work Program:* Cadastre Project, Registration Project, Microfinance Infrastructure Development Project, Regional Program Development.

*Education:* Moscow State University, Economics, Master's Degree, 1999.

*Languages (other than English):* Russian (native), German (beginner).



**Ron HOFFER**, *Environment and Water Advisor*, joined the Bank in 2003, serving as Regional Safeguards Coordinator through June 2007. In that role he was responsible for overseeing the compliance of all operations in the Region with the Bank's environmental management and social protection safeguard standards. Ron also

led studies on national environmental management system effectiveness and harmonization of World Bank policies with those of the European Union. In his current role he is leading sector work on climate change adaptation, setting the stage for new investment operations with other IFIs, and helping strengthen internal staff knowledge and networks.

Prior to the Bank he worked for the U.S. Environmental Protection Agency, serving for the last 12 years as the principal policy and technical advisor on international water programs, with a focus geographically on ECA, Central America, and Africa, and multilaterally with the World Bank and United Nations organizations. Over a 7-year period in EPA before his international assignment, he served as one of the founders and managers of the U.S. groundwater protection program. Prior to EPA, Ron spent 6 years as a consultant in environmental geology, hydrology, and water resources management, and 3 years as a field hydrogeologist and inspector with the Connecticut Department of Environmental Protection.

*Strengths:* Environmental protection programs and institutions; environmental and water resources planning and management; groundwater protection; compliance and enforcement; safeguards; IFI coordination.

*Education:* BS in Geology (City College of New York); MS in Geology (University of Massachusetts); MS in Water Resources Management (University of Wisconsin).



**Martin HUMPHREYS**, *Senior Transport Economist*, has over fifteen years experience in the transport sector, firstly in the Policy Unit of British Railways, and prior to joining the World Bank as a consultant. His primary areas of expertise include transport policy and the economics of the transport sector, including pricing,

costing, and the internalization of external costs, with a particular emphasis on project appraisal in developing and transitional economies. He has accumulated a considerable amount of experience, having worked in a number of different sectors: inland water transport, trade facilitation, ports, railways and roads, in a number of different geographical locations: Albania, Armenia, Azerbaijan, Bangladesh, Bosnia and Herzegovina, Estonia, Georgia, Kosovo, Lithuania, Serbia and Montenegro, Tanzania, Uganda, and the United Kingdom. He also has academic research experience into transport investment appraisal, primarily social cost-benefit analysis and COBA, and more recently, the use of expressed preference techniques to ascertain indirect and non-use values for rail-based public transport, as part of his doctoral research. He is now the Program Team Leader for Transport covering the Western Balkans countries; Albania, Bosnia and Herzegovina, Kosovo, FYR Macedonia, Montenegro, and Serbia.

*Education:* B.Sc. (Economics), University of Wales; M.A. (Transport Economics) and Ph.D. (Transport Economics), Institute for Transport Studies, University of Leeds.

*Languages (other than English):* Danish (Fair).



**Takao IKEGAMI**, *Senior Sanitary Engineer*. Over 15 years of rich professional experience (technical and procurement) in more than 17 countries in the Bank (30 years overall), in project development and supervision of water and wastewater sector projects. Most of

water and wastewater projects included in the work are in urban areas with and without private sector participation projects. As a Procurement Accredited Staff, have worked for (a) operational procurement, developing procurement arrangement for all kinds of packages—civil works, goods, technical services and consultants as well as PSP contracts; (b) capacity assessments of project implementing agencies with related tasks of reviewing the country national procedures and identifying those with noncompliance with Bank procedures.

*Current Work Program:* Responsible for technical aspects of all water projects in Ukraine and Moldova.

*Strengths:* Planning and designing of fast disbursement water sector project and its supervision and procurement.

*Education:* Master in City Planning (MIT), undergraduate degree in civil engineering, Waseda, Japan.

*Languages (other than English):* Japanese (native), German (fair).



**Satoshi ISHIHARA**, *Social Development Specialist*, joined the World Bank in 2002.

*Work Experience:* Supported a number of road and carbon finance projects in South Caucasus and water sector work; has experience in rural roads management in Georgia and Azerbaijan,

and in a Community-Driven Development project financing small municipal infrastructure with special focus on financial sustainability of service delivery. Combine transport economics with social/poverty perspectives.

*Current Work Program:* Azerbaijan Highway/Highway 2 project, Azerbaijan Rural Investment Project, Georgia Secondary and Local Road project, Georgia East-West Highway Improvement project, Georgia Methane Leak CDM, Georgia Hydro CDM.

*Strengths:* Small scale, rural/small town infrastructure.

*Education:* Ph.D., University of London, SOAS.

*Languages (other than English):* Chinese (fair), Swahili (good).



**Rinat I. ISKHAKOV**, *Operations Analyst*, joined the Bank in 1998 as a consultant and in 1999 as a staff member of the Infrastructure Sector Department to work on the water supply and sanitation projects and environment-related activities in Uzbekistan. He has been contributing as a

team member to preparation of the NEAP for Uzbekistan, Lead Phase-Out and Clean Air Initiative, Central Asian Transboundary Biodiversity and Institutional Strengthening projects as well as design and supervision of the water supply and sanitation projects. Consequently, he has joined the Central Asia Water Team in its work on the water supply and sanitation projects in Kazakhstan, Tajikistan, and Uzbekistan. Prior to joining the Bank, Mr. Iskhakov had management and consulting experience working in the private sector and at an international NGO focusing on the environmental issues, water supply and sanitation in the Aral Sea zone.

*Current Work Program:* Water supply and sanitation, private sector involvement under management contracts into the

water utilities' operations in Tajikistan and Uzbekistan, AAA in municipal infrastructure in Uzbekistan.

*Strengths:* Experience in the public utilities, knowledge of the Bank's investment operations, operational experience in implementing Bank/IDA financed projects, building up working relations and negotiating with diverse clients and stakeholders, teamwork.

*Education:* Graduate degree in Business Administration, Swinburne University of Technology, Australia; M.A., Tashkent State University; Diploma (honors), Industrial Engineering, Chirchik Industrial Technical School, Uzbekistan.

*Languages (other than English):* Russian (native).



**Peter JOHANSEN**, *Senior Energy Specialist*. Joined the Bank in 2003 and has 25 years of working experience in the energy sector. His primary areas of expertise include energy policy and strategy, planning and design of energy systems, affordability analyses, energy efficiency, renewable energy and carbon finance. Extensive project experience from working in Central and Eastern Europe, South East Asia, South Asia, Africa, and Latin America.

*Current Work Program:* Mr. Johansen is responsible for sector work and investment projects related to energy security, clean energy, energy efficiency and renewable energy including projects financed by the Global Environment Facility and the Bank's Carbon Finance Business. The countries covered include: Poland, Lithuania, Croatia and Macedonia.

**Olivera JORDANOVIC**, *Agriculture Operations Analyst*, joined the World Bank in 2006. Previously, he worked for Food and Agriculture Organization of the United Nations (FAO UN) as Consultant Agronomist providing technical support to farmers, building capacities of a network of local agriculture/rural development advisors, providing training to producer groups/farmers associations in organizing and building a group, planning the production and post-harvest management. Other work experience is linked with crop production on a state farm (planning, organizing and monitoring).

*Current Work Program:* Ongoing Agriculture Operations in Serbia.

*Strengths:* Agriculture science combined with practical experience, rural development.

*Education:* B.Sc. (Agriculture).

*Languages (other than English):* Serbian (native), German (beginner).



**Frauke JUNGBLUTH**, *Senior Rural Development Economist*, joined the Bank in 1999 through the Young Professionals' program. Previously, she worked in South East Asia and in the Eastern and Southern African region. Since then, she manages agriculture and rural development projects in different countries of the Europe and Central Asia region. She worked on projects and economic and sector work in the Balkan region and Central Asia. Since mid-2004, she is mainly working on agricultural and natural resource projects in the Caucasus region.

*Current work program:* Task team leader for agricultural, rural development and natural resource projects in Azerbaijan, Armenia and Georgia.

*Strengths:* Project design and implementation, policy and sector dialogue, agricultural, community and business development.

*Education:* Master's Degree in Agricultural Economics, University of Goettingen, Germany; Ph.D. (Agricultural Economics), University of Hanover, Germany.

*Languages (other than English):* German (native), French (fair), Spanish (fair).



**Jonathan S. KAMKWALALA**, *Lead Financial Analyst*, joined the Bank in 1987 through the Young Professionals Program. Since graduating from the program, he has worked on water supply and urban development projects and sector work in the South Asia region, (including Bangladesh, Bhutan, India, Pakistan, Nepal, and Sri Lanka) and Europe and Central Asia. In South Asia, he has worked as task manager on urban water supply projects for Dhaka in Bangladesh and Kathmandu in Nepal, as well as portfolio management and supervision of a range of water supply programs in Pakistan and Sri Lanka. He was also task manager of Urban Development activities in Bangladesh and Bhutan, focusing on institutional capacity building for urban local bodies in Bangladesh. He also has led teams of multi-sector specialists in strategy formulation in the urban sector, including sector work on municipal finance issues in Bangladesh.

Since April 2002 when he moved to the ECA region, Mr. Kamkwalala is the Team Leader for water supply and urban activities in Central Asia and Task Team Leader for water supply and urban infrastructure projects in Uzbekistan (Bukhara and Samarkand), Tajikistan (Dushanbe Water Supply and Municipal Infrastructure Development Project); in the Kyrgyz Republic (the Small Towns Infrastructure and

Capacity Building Project in the Kyrgyz Republic and Rural Water Supply Project) and in Armenia (Yerevan Water Supply and Municipal Water Supply) among other tasks.

Prior to joining the Bank, Mr. Kamkwalala worked as Assistant Project Manager for the Investment and Development Bank of Malawi (INDEBANK), a leading development finance institution in the country.

*Strengths:* Financial Analyst experience in water supply, including municipal finance, project development and design; strategy formulation; managing multisector teams, and client focus.

*Education:* B. Sc. (Economics), University of Malawi; M.S. (Finance), Arthur D. Little School of Management, Cambridge, Massachusetts.



**Darejan KAPANADZE**, *Operations Officer based in Tbilisi, Georgia*, joined the Bank in 1997 after a year of studies in the School of International and Public Affairs, Columbia University, New York. Earlier she worked for the Business Development Center established in Georgia shortly after declaration of its independence with the support of USAID, and for Save the Children Federation, Tbilisi Field Office. Her professional background also involves scientific research work for Tbilisi State University and Plant Protection Institute of the Academy of Agricultural Science of Georgia. Her country experience includes short assignments carried out in the USA, Hungary, Ukraine, and Moldova.

*Current work program:* Task Manager for Georgia Agricultural Research, Extension and Training Project, Task Manager for Georgia Integrated Coastal Management Project, member of several Task Teams preparing/supervising operations,

providing environment-related professional cross-support to Task Teams outside SDD, involved in sector work.

**Strengths:** Environment and natural resource management, sustainable agriculture, environmental compliance, liaison with diverse partners and clientele, analytical studies, writing and presentation.

**Education:** Ph.D. (Biology), Tbilisi State University; M.P.A. (Environmental Policy and Regulation), Columbia University, City of New York.

**Languages:** Georgian (native), English (fluent), Russian (fluent).



**Henry G. R. KERALI**, *Lead Transport Specialist*, Infrastructure and Energy Department in Europe and Central Asia Region since January 2003. Henry Kerali is the Program Team Leader for the Bank's Transport projects in Bulgaria, Croatia, Romania and Central Asia (Kazakhstan, Kyrgyz Republic, Tajikistan, Turkmenistan and Uzbekistan). He is responsible for the Bank's portfolio of transport projects and other operations in these countries that include railway restructuring and financing, preparation of transport sector strategies, road management and financing policies, railway restructuring and reform, and trade and transport facilitation sector work.

Before joining the Bank, Henry Kerali was a Professor at the University of Birmingham in England where he specialized in road management and financing. He has over twenty years of experience in a broad range of projects within the transport sector. As a professor, he led the team that produced HDM-4 (Highway Development and Management system), which is used by the Bank and other donor agencies for economic appraisal of road projects. He has working experience in over 30 countries throughout Europe, Asia, Latin America,

and Africa and over 75 publications in journals, books, and international conference proceedings.

**Education:** B.Sc. (Civil Engineering), Makerere University, Uganda; M.S. and Ph.D., University of Birmingham, England; Fellow of the Institution of Civil Engineers, London.



**Christine KESSIDES** joined ECSIE in October 2005 as *Lead Infrastructure Economist and Urban Specialist*. Prior to this current position, she served as urban economist and senior urban advisor in the Urban Development Anchor unit of TWU, where she worked on urban strategy, policy, and peer reviewing for the sector with a focus on urban infrastructure and poverty issues. She authored the Bank's urban and local government strategy, *Cities in Transition* (2000), co-authored the urban poverty chapter of the PRSP Sourcebook, and wrote the urban chapter of the 2003 World Development Report on institutions and sustainable development as a member of the WDR core team. Prior to working in the anchor unit, she had various assignments in the Infrastructure Network/Transport-Water-Urban Department working in the Director's front office as economist and advisor. In that capacity she served on a Bank Group task force on private participation in infrastructure in 1997 and as co-director of the 1994 WDR on Infrastructure. She has written several working papers on infrastructure, urban and municipal issues. She was previously a country economist for Hungary and Romania from 1984–91, and country economist for Burkina Faso. She joined the Bank as a Young Professional.

**Current work program:** Task manager for urban and municipal development ESW and project development, with initial focus on the Western Balkans; coordinating with PREM, DEC, FEU and other departments for ECSSD on cross sectoral infrastructure issues



*Strengths:* Urban development policy and strategy, urban economic analysis, and institutional analysis of infrastructure

*Education:* M.P.A. (International Development), the Woodrow Wilson School, Princeton University; B.S., Northwestern University

*Languages (other than English):* French (intermediate-advanced)



**Iftikhar KHALIL**, *Lead Energy Specialist*, joined the Bank in 1998. He is a member of the ECSSD Management Team, with responsibility for the Bank's large energy program in Turkey. He has worked as Program Team Leader for the energy sector in Albania, Bosnia and Herzegovina, and Kosovo covering sector strategies, sector restructuring, power rehabilitation, and district heating projects. He has also worked as Program Team Leader for the energy sector in Lithuania, and has been involved in various regional energy sector initiatives. Before joining the Bank, he assisted the Government of Pakistan in development of various energy policy frameworks and was Managing Director and President of NESPAK, a large international engineering consultancy organization with operations in twenty countries.

*Current Work Program:* Energy sector strategy and reform, energy projects.

*Strengths:* Sector review, planning and management of large energy and infrastructure projects, project feasibility studies, corporate financial analysis, environmental assessment and procurement.

*Education:* M.S. (Engineering), University of California, Berkeley, 1970.

*Languages: (other than English):* Urdu, Punjabi (native).



**Robert KIRMSE**, *Senior Forestry Specialist*, joined the World Bank in 1991. His work experience includes 36 years in international forestry and rangeland management in 36 countries; public sector (US Peace Corps, UN-FAO and World Bank); private sector (MeadWestvaco, an Integrated Forest Products Company); and educational (Utah State University, faculty position in Brazil).

*Current Work Program:* Europe and Central Asia-wide forestry programs.

*Strengths:* Silviculture (plantations and sustainable forest management); forest inventory; forest management information systems (FMIS); watershed management, rangeland management, national park development.

*Education:* Ph.D. and M.S. (Rangeland/Forest management).

*Languages (other than English):* Spanish (fluent), Portuguese (fluent), French (fluent); Russian (5 words).



**Agnes KISS**, *Lead Ecologist*, joined the Bank in 1987. Trained as an entomologist and ecologist. Worked with USAID as a specialist in Integrated Pest Management and pesticide management and safety. Joined the World Bank also as a pest management specialist and on supporting environmental impact assessments in

the Office of Environment and Scientific Affairs. Wrote the Bank's first Operational Policy and guidelines on pesticides and pest management. Worked as ecologist and biodiversity specialist in Africa Region from 1987 to 2004 (based in Nairobi 1992–1997 as Task Manager for the Kenya Protected Areas and Wildlife Services project). Moved to Europe and Central Asia Region in November 2004.

*Current Work Program:* Task Team Leader or team member for environmental protection, biodiversity conservation and natural resource management operations in several countries in the West Balkans and Caucasus (primarily Serbia, Montenegro, Albania, Azerbaijan, Georgia).

*Strengths:* Biodiversity conservation and ecosystem management, Integrated Pest Management, sustainable agriculture, project-level and Strategic Environmental Assessment; environmentally sustainable tourism, environmental policy.

*Education:* Ph.D. (Ecology), University of Michigan.

*Languages (other than English):* French (good), Hungarian (good), German (survival), Spanish (survival), Russian (beginner).



**Solvita Klapare**, *Operations Analyst*, joined the Bank in 2000.

*Work experience:* Prior to joining the bank, worked at the Foreign Economic Relations Department of the Ministry of Economy of Latvia. In 1996, joined the Latvia Municipal Development Fund as an Economist and later became a Fund Coordinator. During this time actively participated in the country's process of decentralization and local capacity building. In 2000 joined ECSIE's Urban and Water unit to work on municipal

development operations in the Baltics and South-Caucasus. Later focused on projects for rehabilitation and operational and financial improvement of water and sanitation systems in the South-Caucasus and Poland, as well as economic and sector work on private sector options in water and sanitation operations. In 2005, joined ECSSD to work on agriculture, rural development and carbon finance projects.

*Current Work Program:* Carbon finance, agriculture reform and development operations in Ukraine, Russia, EU accession countries and Baltic Sea region. Analytical work on International Emissions Trading under the Kyoto Protocol.

*Strengths:* Multi-sectoral experience, experience working with Bank projects as a client, thorough knowledge of Bank operations and procedures.

*Education:* M.A. in Economics from University of Latvia; Post-graduate Diploma in Law from London BBP Law School.

*Languages: (other than English):* Latvian (native); Russian (fluent); German (survival).



**Motoo KONISHI**, *Sector Manager*, joined the Bank in 1981 through the Young Professional's Program. After graduating the YP program in 1983, he worked on transport projects and sector work in Eastern and Southern African countries, including Malawi, Somalia, Sudan, Tanzania, and Zimbabwe. As a transport economist, he formed teams of multi-sector specialists and carried out in-depth sector analysis that diagnosed the existing situation and formulated multi-year programs of institutional, policy reforms and investments to improve transport services and infrastructure. From 1990 to 1992, he joined the Country Operations Division in Latin American Region as the senior country officer for Bolivia. During his



tenure, he helped develop the country team and drafted the first Country Assistance Strategy for Bolivia. From 1992 to 1995, he returned to Southern Africa Department as the Resident Representative for Tanzania. Among other things, he helped raise the issue of corruption to be one of the central focal issues of the first multi-party Presidential election. From 1995 to 1997, he worked as the Principal Country Officer for Kazakhstan where he led the drafting of the second Country Assistance Strategy, and prepared and appraised a project to computerize and modernize the treasury system of Kazakhstan. From 1997 to present, he has worked in the Infrastructure and Energy Services Department of Europe and Central Asia Region as the Principal Operations Officer (Water Supply), Sector Manager for Water Supply and Sanitation, and since January 2004, as Sector Manager for Transport.

*Current Work Program:* Management of Transport Sector Unit for Europe and Central Asia Region.

*Strengths:* Development of sector specific and multi-sector strategies; analysis of linkages between infrastructure and overall economic growth and development; management of multi-sector teams; negotiations with Ministry of Finance and senior policy makers; project economic analysis.

*Education:* B.Sc. (International Economics), Claremont McKenna College; M.A.L.D. (Development Economics, International Law and International Business), Fletcher School of Law and Diplomacy.

*Languages (other than English):* Japanese (native); Spanish (beginner).



**Holger A. KRAY**, *Senior Sector Economist*, has been with the World Bank since 1997 as consultant; he joined Europe and Central Asia Sustainable Development Department in 2005 as a regular staff. Prior to joining the Bank, Mr. Kray worked as Senior Financial Sector Consultant for KPMG Consulting/BearingPoint and as independent consultant to international organizations such as the World Bank, Food and Agriculture Organization of the United Nations (FAO), European Commission (EC), and the Black Sea Economic Cooperation (BSEC). Specialized in agricultural policy and rural strategy reform and analysis, he has extensive working experience in Central and Eastern European countries, Russian Federation, and several CIS countries. He particularly focuses on policy reform aspects related to EU accession and approximation, the implementation of the European Union's Common Agricultural Policy (CAP), and programming and management of programs under EU Agricultural and Structural Funds.

*Current Work Program:* Task Team Leader for agricultural reform implementation projects in Turkey and Romania. Involved in dialogue on EU CAP implementation and EU structural funds programming and management in new EU member states and candidate countries. ECA representative to the Rural Policy Thematic Group.

*Education:* Ph.D. (Agricultural Economics), Christian-Albrechts-University of Kiel, Germany.

*Languages (other than English):* German (native); French (fair).



**Dmytro KRYSHCHENKO**, *Projects Officer at the Bank's Country office in Kyiv, Ukraine*, joined the Bank in 2003. Currently, he is involved in preparation of the urban infrastructure and roads improvement projects. Prior to this, he worked on private sector development operations in Ukraine and Belarus. His previous experience includes investment banks SARS Capital (Russian Federation) and MC-BBL (UK), and the Ukrainian Gas Transportation Company. During 1995–97, he worked at IFC for the Corporate Finance Services Department.

*Current Work Program:* Financial analysis, client relations and local coordination for the Ukraine Urban Infrastructure Project.

*Strengths:* Project development and implementation, client relations, financial analysis.

*Education:* M.A. (Economics), Temple University; B.Sc. (Finance) from Kiev State Economic University.

*Languages (other than English):* Ukrainian and Russian (native).



**Jolanta KRYSPIN-WATSON**, *Operations Analyst*, joined the Bank in 1997.

*Work Experience:* She has been mainly working on the disaster recovery and hazard risk mitigation projects in Europe, North Africa and East Asia as well as on multi-sectoral operations in rural development, coastal zone management, land management and urban development operations; carried out analytical work in hazard risk management. Before joining the Bank held a position of Regional Policy Specialist for the EU pre-accession regional development program in Poland and authored publications on EU Structural Funds.

*Current Work Program:* Hazard risk mitigation projects in Turkey and Romania; land management modernization operation and agriculture restructuring operations in Turkey; a natural disasters preparedness initiative for South Eastern Europe.

*Strengths:* Development and supervision of disaster mitigation and emergency response projects; institutional analysis; knowledge of Bank's operations and procedures; development of analytical reports; work with cross-sectoral teams.

*Education:* Master of Public Administration (MPA), State University of New York at Albany; Master of Business Administration (MBA), University of Warsaw.

*Languages:* Polish (native), Russian (fair), German (survival)



**Andrey KUSHLIN** is a *Senior Forestry Specialist* with 21 years of professional experience in environment and natural resource management and planning. He joined the Bank in 1993 as long-term consultant at the Europe and Central Asia Infrastructure, Energy and Environment Sector Unit, and in 1998 as regular

staff. His primary area of expertise includes public sector management and policy development in forestry and natural resources, with specific focus on public-private interface and partnerships in information management, resource inventory and landscape-level spatial planning, including biodiversity, ecosystem and watershed management systems and integrated hazard (fire and pest) management tools. He was specifically involved in the development and implementation of the Bank's current forestry and biodiversity portfolio in Russia, Georgia, Kazakhstan, and Romania, including economic and sector work and investment operations. He also led Bank inputs into the national forest and biodiversity policy dialogue processes and industry-NGO partnerships in

these countries, as well as the Europe and North Asia Forest Law Enforcement and Governance (ENA-FLEG) Ministerial Process. Before joining the Bank, he worked in research and consulting in Russia, Eastern Europe and Central Asia, North America and Africa on remote sensing and mapping applications for forest, land and watershed planning, natural resource and environment sector policies.

*Current Work Program:* Supervision of forestry projects and policy dialogue in Russia and Georgia (task team leader); preparation of fire management and tourism development projects in Russia and a global project on mainstreaming biodiversity in production forests.

*Strengths:* Broad cross-sectoral knowledge of environment and natural resource management issues, experience in multi-stakeholder policy dialogue and public-private partnerships, professional expertise in spatial planning and mapping.

*Education:* Ph.D. (1993) and M.S. (1985) in Physical Geography, Moscow State University; Visiting Scholar at Yale School of Forestry and Environmental Studies (1990); Post-Doctoral Fellow at NASA Goddard Space Flight Center (1993).

*Languages (other than English):* Russian (native), French (fair), Latvian (intermediate).



**Ilia KVITAISHVILI**, *Rural Development Specialist*, joined the Bank in 2003. Prior to joining the Bank, Ilia worked as a financial director for commercial companies. In parallel he worked as Agribusiness and Small Business Coordinator at the International Center for Research and Development of Georgian Economy.

*Current work program:* Task team member for agricultural, rural development and natural resource (forestry) projects in Georgia.

*Strengths:* Project design and implementation, financial background, dialog with client, teamwork, and good analytical skills.

*Education:* Master of Agribusiness Management, 1997. Agribusiness, Georgian Agricultural University, 1987

*Languages (other than English):* Georgian (native); Russian (fluent).



**Gloria LA CAVA**, *Senior Social Scientist*, joined the World Bank staff in October 1997; prior to this date, she worked in the World Bank's Executive Director's office for Italy, Portugal, Greece, Albania and Malta as social policy advisor. *Work Experience:* Task Team Leader for multi-sectoral operational and analytic work in conflict prevention, post conflict reconstruction, territorial development and children/youth development. Regional Youth Coordinator since 2004, leads a team of five youth specialists in the Social Development Unit. She is also responsible for mentoring SD staff in other World Bank regions to develop youth investments. Contributor to the Children and Youth Framework for Action and to the World Development Report on "Development and the Next Generation".

*Current Work Program:* Task Team Leader for Croatia Social and Economic Recovery Project; Macedonia Children and Youth Project; Kosovo Youth Development Post Conflict Grant; North Caucasus Youth Development post conflict grant; Youth Voices groups in six ECA Country Offices; economic and sector work "Youth in the North Caucasus: From Risk to Opportunity".

*Strengths:* Multi-sectoral work; global experience, recognized as a World Bank leading expert on youth issues.

*Education:* Ph.D. (Social Sciences), New York University.

*Languages (other than English):* Italian (native), Spanish (native), French (fluent), Portuguese (fluent).



**Julian LAMPIETTI**, *Lead Sector Economist*, joined the Bank as permanent staff in the Europe and Central Asia (ECA) Region in 1999. Julian first started working for the Bank in the mid-1990s as a consultant with assignments in East Asia Operations, ENV, PREM, and WBI.

During his tenure at the Bank, Julian has worked on a broad range of topics including agriculture, environment, poverty, and social development. In the late 1990s he led on of the first poverty and social impact assessments on energy and poverty conducted in the ECA region. He also led one of the first studies on household demand for heating in ECA. He has published papers, articles, and books on topics ranging from forestry to malaria prevention to the social impacts of energy sector reform.

*Current Work Program:* Julian's current work program is focused on rural space in the West Balkans. His emphasis is on assisting Bank task teams in designing an integrated portfolio of projects that will enable client countries to diversify rural livelihoods, improve agricultural competitiveness and take maximum advantage of potential assistance that may become available with pre-accession status.

*Strengths:* Julian's strengths are in combining analytic skills with strategic thinking to develop clear and simple policy messages with operational implications. He can lead both AAA and projects in a number of different areas including infrastructure, agriculture, environment, and social

development. He is good at working across teams and his technical skills include cost benefit analysis, valuation, and household survey analysis.

*Education:* B.Sc. (Agriculture), Rutgers University; M.S. (Natural Resource Economics), Duke University; Ph.D. (Public Policy), University of North Carolina at Chapel Hill.

*Languages (other than English):* French (fair), Spanish (intermediate), Thai (intermediate).



**Martha B. LAWRENCE**, *Senior Transport Specialist in Europe and Central Asia Region*, has extensive experience in transport regulation and rail and transit finance. She authored the World Bank's restructuring study of the railways in the Western Balkans and is currently engaged in rail, road safety, and urban

transport projects in Turkey and the Caucasus. Before joining the World Bank, Ms. Lawrence was a Managing Director of Herral Winner Thompson Sharp Lawrence, Inc. She has developed business and financing plans for numerous railway restructurings, public-private partnership arrangements and concessions. Ms. Lawrence has advised private sector investors on over US\$8 billion in structured lease financing of transit rolling stock and infrastructure.

*Education:* B.A. (Economics), Northwestern University; M.B.A. (Finance and Transportation Management), Northwestern University.



**Olivier LE BER**, *Lead Transport Specialist*, is the Program Team Leader (PTL) for the Transport sector in the South Caucasus countries (Armenia, Azerbaijan and Georgia) and in Turkey involving railways and road sector restructuring/financing, road maintenance and construction, traffic safety, urban transport, trade and transport

facilitation as well as Economic and Sector Works. Previous activities in the same department also included participation in and/or task management of various Transport projects in the following countries: Albania, Kosovo, Macedonia, Poland and Turkey. Mr. Le Ber joined the Bank in 1999 through the secondment program and in 2000 as regular staff. Before joining the Bank, Mr. Le Ber was a civil servant of the French Ministry of Public Works, Transportation and Housing and held senior management positions in the road, port and airport sectors in France and overseas.

*Current Work Program:* Managing the Bank Transport Program in Armenia, Azerbaijan, Georgia and Turkey. As PTL for these countries, Mr. Le Ber has the responsibility of a large portfolio of projects (8–10 to be delivered in the next 3 fiscal years and 4 under supervision).

*Strengths:* First hand knowledge of various transport modes, practical experience in concessions and PPPs, procurement (as Procurement Accredited Staff), economic and financial analysis, works construction and supervision. Ability to lead sector dialogue with high Government officials and develop/ manage large/complex projects; ability to work effectively with teams.

*Education:* M.S. (General Engineering and Economics), Ecole Polytechnique, France; Civil Engineer degree, Ecole Nationale des Ponts et Chaussées, Paris, France. Ingénieur en Chef des Ponts et Chaussées.

*Languages: (other than English):* French (native).



**Barbara LETACHOWICZ**, *Operations Officer*, joined the Bank in 1998. Prior to joining the Bank, she worked in consulting services for municipal sector, private sector supplying wastewater treatment systems for food processing industry and USAID-financed assistance programs supporting preparation of

environmental investment projects and strengthening environmental financing system in Poland. Since joining the Bank, she has been involved in preparation and supervision of lending operations—in the area of emergency reconstruction of municipal and rural infrastructure, rural development with a focus on infrastructure development in a broader context of regional development, protection water resources against non-point source pollution, strengthening country capacity on land registration and administration, development of wholesale markets mostly in Poland and the Baltic Sea region.

*Current Work Program:* Poland: Odra River Basin Flood Protection Project (flood protection, water management) , Roads Maintenance & Rehabilitation Projects, Latvia: Liepaja Region Solid Waste Management Project, International Emissions Trading Options Study.

*Strengths:* Project design and implementation, World Bank safeguards, community-driven development, environmental financing systems in transition countries.

*Education:* M.S. (Environmental Engineering), Warsaw University of Technology, Poland.

*Languages (other than English):* Polish (native); Russian (fair: reading—good, speaking—survival).



**Sanyu LUTALO**, *Environmental Engineer*, joined the World Bank in December 2001 as an Operations Analyst. Ms. Lutalo provides operational support in water supply, wastewater, and hygiene and sanitation projects in Tajikistan, Uzbekistan, Azerbaijan, and Kyrgyz Republic.

*Summary of Professional Experience:* Before joining the Bank, she worked as a Senior Project Engineer—Planning and Capital Development, in the National Water and Sewerage Corporation, Uganda, where she was involved in planning, preparation and management of water supply and sanitation projects funded by the Government and various donors and IFIs, including the World Bank and KfW. She also worked as an Assistant Lecturer in the Department of Civil & Environmental Engineering, Makerere University, Kampala. She has also been involved in various consultancy work in the Water and Sanitation Sector.

*Education:* M.S., Water and Environmental Management, Loughborough University Water Engineering and Development Centre (WEDC), United Kingdom; B.Sc., Engineering (Civil), Makerere University, Kampala, Uganda.

*Strengths:* Project design and implementation, engineering in water supply and sanitation, and environmental assessment.



**Paula LYTLE**, *Senior Social Development Specialist*, joined the World Bank in 1998 as a consultant and in 2004 as staff. She led analytical work on youth strategy in Bosnia-Herzegovina and on social impacts of shipyard restructuring in Croatia, social scientist on rural development and environmental management projects in pre-accession countries, co-author of report on institutions and the environmental acquis.

*Current Work Program:* Social impact of enterprise restructuring, social dimensions of protected area management, regional development in depressed areas.

*Strengths:* Poverty and social impact assessments, social safeguards in natural resource projects, country social scientist for Bosnia-Herzegovina, Croatia, Kosovo, Montenegro and Serbia.

*Education:* Ph.D. (Political Science), Yale; B.A., Johns Hopkins.

*Languages (other than English):* Serbo-Croatian (good).



**Shelley MCMILLAN**, *Water Resources Specialist*, joined the Sustainable Development Sector Unit of Europe and Central Asia of the Bank in 2006 after working for four years as a World Bank consultant. She started as a short term consultant in Agriculture and Rural Development of the Environment and Socially Sustainable Development anchor unit where she worked for the Bank-Netherlands Water Partnership Program. She was then an extended-term consultant (ETC) in the Environment Department of Latin America and the Caribbean, working on projects and related analytical work pertaining to integrated water resources management in Argentina, Honduras, Mexico and Peru. She co-authored a set of briefing notes on river basin management titled “IRBM Series: From Concepts to Best Practice” and was also an editor of the Regional Document for the Americas released at the 4th World Water Forum. During her term as an ETC, she provided cross-support to the West Africa water resources program for the Senegal River Basin (which includes Guinea, Mali, Mauritania and Senegal). She was responsible for the technical river basin design of the World Bank’s first integrated water resources project in West Africa—i.e. the Senegal River Basin Multipurpose Water



Resources Development APL (US\$341M). This project won the highest award in the Africa region for the 2006 fiscal year. Now she is a member of the team working on the water sector in Europe and Central Asia. In addition, she is the coordinator of the river basin “window” of the Bank-Netherlands Partnership Program and a guide for the water resources portal of the Development Gateway.

*Current Work Program:* Water resources specialist working on Albania, Macedonia, Poland and Hungary.

*Strengths:* River basin management, water sector strategy and policy development, integration across sectors and disciplines.

*Education:* Ph.D. (Water Resources Management) and M.S. (Environmental Policy and Management), University of Hull, UK. B.Sc. (Chemical and Process Engineering), University of the West Indies.

*Languages (other than English):* Spanish (very good), French (good).



**Seema MANGHEE**, *Senior Financial Analyst*, joined the Bank in 1996. Currently, she is the Team Leader for water supply, sanitation, and solid waste projects in Bosnia and Herzegovina, Moldova, and Ukraine. Prior to this she was involved in municipal projects in Armenia, Croatia, and Georgia and working on urban and

water supply and sanitation development plans in Chile. Her external experience includes the Research Environmental Group in Berkeley, CA; the consulting firm of Morrison & Forster in San Francisco, CA; and the Karachi Water and Sewerage Board in Karachi, Pakistan.

*Current Work Program:* Water supply, sanitation and regional solid waste projects in Bosnia and Moldova; water sector reorganization and technical assistance to the Vodovod Association in Bosnia; institutional strengthening program for the Apa Canal Association in Moldova; and a pollution control project and technical assistance to the water and sanitation sector in Ukraine. Several new GEF projects in those countries are currently under preparation as well as sector work on solid waste management, water supply and sanitation notes and inter utility arrears.

*Strengths:* Utility management experience; project development, negotiations and implementation; experience in water supply, sanitation, solid waste and environmental pollution control.

*Education:* M.A., B.A., University of California, Berkeley



**Jann MASTERSON**, *Operations Officer*, joined the Bank in 1975. From 1975–1993, she worked on irrigation and agricultural services projects in the Sahel region of Africa. From 1993 to 1997, she worked on infrastructure and energy projects in Armenia, Georgia, Moldova, Estonia, Latvia, Lithuania and Ukraine. Since 1996

she has supervised the implementation of several energy projects and participated in the preparation/appraisal/supervision of energy projects in Armenia, Georgia, Moldova and Azerbaijan.

*Current Work Program:* Responsible for supervision of the Electricity Transmission and Distribution Project in Armenia, participates in the supervision of the Second Energy Project in Moldova.

*Strengths:* Project implementation (procurement, disbursements, accounting/audits, project implementation

arrangements, organizing and presenting training for clients in implementation aspects), loan/credit processing procedures and negotiations.

*Education:* M.A. (French), University of Kentucky, 1974; "Licence es lettres", Université Paul Valéry, Montpellier, France, 1973; B.A. (French), Mississippi State University, 1971.

*Languages (other than English):* French (fluent).



**David MEERBACH** started working at the World Bank in 2005 as a *Young Professional*, and has worked on Bangladesh, China, India and Vietnam in the field of water resource management, agriculture and environment. His World Bank experience includes operational work on agricultural diversification and competitiveness, irrigation and water resources, industrial wastewater treatment and rural and small-town water supply. His analytical experience includes AAA work on China water scarcity, Dhaka industrial environmental compliance, development of natural resources in North-east India and the Bangladesh Country Environmental Analysis.

Before joining the Bank, David worked for 6 years in West Bank, Gaza and Jordan, as a senior agricultural engineer with a US engineering firm on the West Bank Water Resources Program and with Oxfam GB as the technical coordinator of the rural development and water and sanitation program. David holds a MSc in Tropical Land Use from Wageningen Agricultural University in the Netherlands.



**Sevara MELIBAEVA**, *Junior Professional Associate*, joined the Bank in May 2005 as an Intern before becoming a JPA in December 2005. She works mainly on transport projects in Europe and Central Asia region. During her graduate studies, she has completed an internship with the UN Energy Statistics Division working on data quality improvement, data validation and time series analysis of the UN database for natural gas production. In addition, she interned with Barents Group of Bearing Point in New York office assisting with ongoing ADB funded project on corporate governance reforms in Uzbekistan and in preparation of a successful proposal for the World Bank funded project on securities market reforms in China.

*Education:* B.Sc. (Business Administration and Economics), Greensboro College, U.S.A.; M.B.A., Tashkent State Economic University (UZB); M.P.A. (Economic & Political Development and Policy Analysis), Columbia University, U.S.A.

*Languages (other than English):* Uzbek (native), Russian (fluent), Spanish (beginning).



**Barbara MONDESTIN** joined the Bank in June 1983. She held her previous assignment as *EA in ECSPF* for the last six years. Prior to joining ECSPF, Barbara was a Sr. Staff Assistant in the ECA VPs office for four years. She worked for the Annual Meetings for three years (including Dubai in 2003) and has participated in Bank's missions in Europe and Central Asia (including a two month developmental assignment in Kazakhstan in 1995).

*Languages (other than English):* Creole/French (intermediate/basic).





**Jessica MOTT**, *Sr. Natural Resource Economist*, first worked at the Bank during the summers of 1976 and 1979, and also had experience with NGOs in the 1970s. She then joined the Bank full time through the Young Professional Program in 1980, first in the South Asia transport division (India, Sri Lanka) and then in the Brazil agriculture division. From 1981–88 she worked on projects in the Thailand agriculture division, an assignment which included her serving first as the economist, and then as the task manager, of the first stand-alone land administration project in the Bank, the Thailand Land Titling Project. After a period of leave, from 1990–94 she worked in Asia on environmental and gender coordination (including travel to Papua New Guinea) and the design of two pilot phase GEF biodiversity projects in Indonesia. From 1994 to 2003, she worked on participatory forest management, forestry research, biodiversity conservation, and land administration projects and other activities in India, Bhutan, Sri Lanka and Pakistan. This assignment included task leadership of the India Ecodevelopment Project, one of the first project designs in the Bank to reflect a full social assessment and a “process” (rather than blueprint) approach. In 2003 she joined the Europe and Central Asia Region, where she has overseen preparation and implementation of natural resource management, rural development and land administration/ reform projects in Kazakhstan, Belarus, Tajikistan, Kyrgyz Republic and Bosnia and Herzegovina.

*Current work program:* task leader of a participatory watershed management project and a rural land reform project in Tajikistan, a land and real estate registration project in Kyrgyz Republic, a forest conservation and reforestation project in Kazakhstan, and a forestry technical assistance project in Bosnia and Herzegovina.

*Strengths:* Natural resource management, especially in watershed management, forestry, and biodiversity

conservation. Land administration and land reform. Institutional development.

*Education:* M.A. Johns Hopkins University School of Advanced International Studies (SAIS).

*Languages:* (other than English): Spanish (somewhat rusty), Portuguese (very rusty), Russian (advanced beginner/early intermediate)



**Stephen MUZIRA**, *Extended Term Consultant*, joined the Bank in April 2007 as a Transport Specialist. Prior to joining the Bank, he worked as a Transport Engineer with Ove Arup & Partners in the UK. Prior to that, he worked as an Assistant Transport Planner with Mouchel Parkman plc in the UK; and as a Road Engineer with Gauff Ingenieure Consulting Engineers in Uganda. He has over six years working experience in aspects of transportation and highways ranging from transport planning, traffic modelling and forecasting, contracts administration and highway engineering supervision.

*Current work program:* Regional project on Secondary and Local roads in the Western Balkan countries of Albania, Bosnia & Herzegovina, Kosovo, FYR Macedonia, Montenegro and Serbia; transport sector work in Albania, Kosovo and Macedonia, support to Moldova transport strategy work.

*Strengths:* Transport Planning, Transport Strategies, Road Maintenance, Highway Engineering.

*Education:* BSc. in Civil Engineering, Makerere University, Uganda; MSc. in Transport Planning and Engineering, University of Leeds, United Kingdom.

*Languages (other than English):* French (fair)



**Nikolay Petrov NIKOLOV**, *Operations Analyst*, joined the Bank in 1997. He came to ECA Energy Department from the Bank's Country office in Bulgaria in February 1998. In his position of Economist/Operations Officer for energy operations in Sofia for the preceding 1

year, he has participated in supervision missions for the on-going World Bank energy project—including discussions with the government on restructuring the energy sector and identification of a new District Heating Rehabilitation Project. Prior to joining the Bank, he worked for the Bulgarian government and then for Price Waterhouse in the Washington area.

*Current Work Program:* In addition to his role in analyzing statistical, regulatory and legislation information, Mr. Nikolov is responsible for monitoring the implementation of a Hydropower Rehabilitation and System Control Project in Ukraine. Mr. Nikolov participated in discussions with the Bulgarian Committee on Energy on the identification and preparation of a rehabilitation project for major municipal district heating systems, including issues of environmental feasibility, structure and ownership, heat tariff policy, regulatory framework and investment strategy. He has also worked on the implementation of an Electricity Sector Reform Support Project in Russia. His most recent work experience includes project supervision and analysis of economic, institutional and operational aspects of projects under preparation. Mr. Nikolov has been involved in the preparation of energy sector analysis for the Bank's Country Assistance Strategy for Belarus, a Social Infrastructure Retrofitting Project in Belarus, an Electricity Market Development Project in Georgia, and a Programmatic Adjustment Loan in Ukraine.

*Strengths:* Substantial experience with policy issues, such as pricing and restructuring, and on related links with Bank adjustment operations and Fund programs. In the course of his professional and academic career, Mr. Nikolov has

acquired experience with several transition economies of the ECA client countries (Russia, Bulgaria and Ukraine in particular), including energy projects and privatization.

*Education:* Diploma in International Economic Relations from the Moscow State Institute of International Relations; M.A. (Development Banking), American University.

*Languages (other than English):* Bulgarian (native), Russian (fluent), French (fluent), Spanish (fluent).



**Cesar NICULESCU**, *Consultant (Extended Term) in Environment and Rural Infrastructure*, joined the Bank in July 2006. He has seven years of working experience in international assistance programs with the European Commission—The Delegation in Romania—project preparation,

implementation and monitoring in the field of environment and infrastructure (both rural and urban), with a portfolio of more than 250 projects (service, supply and works) in a total amount of about 600 millions euro (1999–2002, Task Manager for Environment sector; 2002–2006, Task Manager for ISPA Environment). Cesar also has more than nineteen years of working experience within the state environmental and water management institutions in Romania (1990–1999, Head of Monitoring & Database Department of EPA Bucharest; 1979–1990, hydro-technician engineer at Water Management Office of Bucharest).

*Current Work Program:* Environment and infrastructure sector projects in Romania. Involved in technical support (engineering and environmental expertise) in the implementation and preparation of several projects in Romania: Hazard Risk Mitigation and Emergency Preparedness, Irrigation Rehabilitation and Reform, Environment Management Loan Project and Municipal Services.

*Strengths:* More than twenty-six years professional experience in the field of engineering and environmental protection: environmental regulations, river basin planning and management, local/regional waste management plans, waste, water and air pollution control and pre-investment/investment studies. More than ten years of professional experience in project preparation and project management in the field of environment (including rural/urban infrastructure, nature and biodiversity, highly polluted areas, institutional strengthening). Extensive experience in EU assistance programs for the CEECs (Phare, ISPA, LIFE, etc.), in the management of large-scale investment projects and development of projects/programs for environment and infrastructure (in both urban and rural areas).

*Education:* B.Sc. (Constructions, specialization of Hydro-technical constructions), Construction University of Bucharest, Romania—School of Hydro-technical Constructions; Graduate (Environmental Administration), Japan International Cooperation Agency, Sapporo, Japan; Graduate (Air Pollution Source Monitoring), Japan International Co-operation Agency, Kitakyushu, Japan; Graduate (Solid Waste Management in South East Europe), Swedish International Development Cooperation Agency, Stockholm, Sweden.

*Languages (other than English):* Romanian (native), Italian (intermediate); French (beginner).



**Kari NYMAN**, *Lead Specialist*, joined the Bank in 1991. Since 2002, he has been working in the Europe and Central Asia (ECA) Region in the Infrastructure and Energy Department. From 1983 through 2001, Kari worked on energy policy, planning, project development, implementation and finance throughout the Asia region. In 1997–2001, he was the leader of the Bank's

India energy team and member of the India country team. From 1983 until joining the World Bank in 1991, he worked with the Asian Development Bank as an economist and engineer. Kari's working experience in the 1976-1983 period included an international telecommunications/automation systems manufacturer, an energy-sector consulting firm, a power generator, and a municipal energy utility.

*Current work program:* Energy and infrastructure strategy and privatization issues, team leadership for the World Bank's regional support for the Energy Community in South East Europe, and other energy projects. Peer review and other cross-support assignments.

*Strengths:* Kari's strengths are in client orientation/service; managing large and decentralized multisectoral teams; and energy policy and strategy, reform and restructuring, as an integral part of broader assistance programs supporting clients in economic and fiscal restructuring.

*Education:* Microeconomics and civil law, Tampere University, and electrical engineering and industrial economics, Tampere Institute of Technology, Tampere, Finland.

*Languages (other than English):* Finnish (native), Swedish and German (rusty).



**Vasile Nicolae OLIEVSCHI**, *Senior Railway Specialist* joined the World Bank in January 2005. He is currently responsible for developing a regional program for creating the South East European Railway Transport Area. Based on common rules and compatible institutions, it will allow the progressive development of a regional transportation market for Western Balkan railways. He is also involved in different railway projects in Serbia, Macedonia, Turkey, Egypt, Kenya, and

Bangladesh. Previously he worked in high positions for the Romanian Government being in charge of the modernization and the development of the new business oriented structure of the Romanian Railway. He worked actively until 2005 in different bodies of the International Union of Railways (France), developing projects supporting the new commercial approach of European railways.

*Strengths:* Railways management and restructuring, direct experience in implementing solutions within large organizations, sector reform strategies, IT Project management across multiple organizations.

*Education:* Graduate studies in Transportation at Polytechnic University in Bucharest.

*Languages (other than English):* Romanian (native), French (intermediate).



**Gerald OLLIVIER, Sr. Infrastructure Specialist**, joined the World Bank in 1995. Mr. Ollivier's experience in the Bank includes being team leader for various infrastructure projects (highway, rail, port, trade and transport facilitation), knowledge management, financial analysis, policy dialogue, organization of international seminars and workshops, and support to public-private dialogue across Europe and Central Asia. In FY08 he is the team leader for the Rail Trade and Transport Facilitation Project in Azerbaijan, for the Rijeka Gateway Project I and II (port/roads/port-city interface) in Croatia and for the Trade and Transport Integration (corridor development/port/PPP) in Croatia and for the TTFSE II project in Bulgaria. Mr. Ollivier contributed to the WB Trade Logistics Group on global initiatives, such as the Global Facilitation Partnership for Transportation and Trade, the preparation of GFP dissemination notes and the development of distance

learning programs for logistics operators and supply chain management specialists.

*Strengths:* Development and management of projects; use/design of Excel models allowing for risk simulation (Montecarlo) and scenario testing to assist decision-making in infrastructure projects; trade and transport facilitation; financial analysis of transport infrastructure projects; website/knowledge management/partnership development.

*Education:* Degree in Management of Civil Work Projects, Ecole Nationale des Travaux Publics de l'Etat (European equivalence to M.S.); Chartered Financial Analyst Charterholder, CFA Institute.

*Languages (other than English):* French (native).



**Dejan OSTOJIC, Lead Energy Specialist and Country Sector Coordinator**, joined the Bank in 1998. In the Bank, he has managed or participated in investment projects, adjustment operations and energy sector policy studies in Ukraine, Belarus, Moldova, Hungary, Bulgaria, Kazakhstan, Turkey, Serbia and Montenegro and Macedonia. Prior to joining the Bank, he worked in Harza, Chicago, USA (1992–1998) as Area Manager and Senior Consultant on major power generation, transmission, and distribution projects in Bulgaria, China, El Salvador, Japan, Kyrgyzstan, Macedonia, Malaysia, Venezuela, and USA. From 1983 to 1992, Mr. Ostojic was a Professor of Electrical Engineering at the University of Belgrade, Yugoslavia, Fulbright Scholar at Purdue University, USA, and consultant to power utilities in Yugoslavia, Qatar, and USA.

*Current Work Program:* He is the Program Team Leader for energy and the country Sector Coordinator for infrastructure in Ukraine, Belarus and Moldova; coordination of infrastructure

activities and preparation of country assistance strategies; preparation of investment projects and technical assistance projects in Ukraine; and supervision of the energy sector portfolio in Ukraine and Moldova.

*Strengths:* Development of sector strategies and investment programs in energy and infrastructure, integration of sector policies and regulatory regimes with requirements for public and private investments, power system development planning, design, appraisal and implementation of investment projects.

*Education:* B.Sc., M.S. and Ph.D. (Electrical Engineering). Senior Member of IEEE and Member of US Committee of CIGRE. Author of more than 20 papers and one book.

*Languages (other than English):* Serbo-Croatian (native), Russian (fluent), French (fair) and Spanish (fair).



**Grzegorz PESZKO**, Senior Environmental Economist, joined the Bank in 2004. Prior to joining the Bank, he worked for fifteen years for academia, private consulting, and for the OECD, where he managed environmental finance team. Among others, he developed tools for financial engineering of environmental infrastructure projects and programs. He was also the principal author of OECD Council Recommendation on Good Practices in Public Environmental Expenditure Management. He participated in international think-tanks associated with IPCC, EBRD and Harvard University, and advised a number of governments in Central and Eastern Europe, and China on designing environmental programs (including for EU accession) and on using public funds to support environmental objectives. Since being associated with the Bank, he has been extensively involved in developing innovative approaches to financing industrial pollution

abatement and assisting ECA countries to participate in international emissions trading under the Kyoto Protocol.

*Current Work Program:* Industrial pollution control, environmental policy and carbon finance.

*Strengths:* Investment plans and financing strategies; economic and financial analysis; carbon finance; linking environmental and macro-economic issues; institutional and environmental policy including EU environmental laws.

*Education:* M.S. (Economics), University College London; M.S. (Political Sciences) Jagiellonian University Krakow; Ph.D. (Economics), Krakow University of Economics.

*Languages (other than English):* Polish (native), Russian (fluent), French (fair).



**Björn PHILIPP, Jr.** Professional Officer, joined the Bank in 2006. Prior to joining the Bank, he was employed by German Development Cooperation (GTZ). Based in Latin America and Germany he worked on preparation, implementation, and evaluation of several Decentralization and Urban Development Projects. Björn also worked for The Cities Alliance and a Berlin-based Public Management Consulting.

*Current Work Program:* ESW on Local Governance and Service Delivery in Bosnia and Herzegovina, Preparation of Municipal Services Improvement Projects in Macedonia and Bosnia and Herzegovina, ECA Subnational Finance Group. *Strengths:* Strong team player with problem-solving and learning oriented working style, experience in both analytical and operational work in a wide range of urban and municipal issues, focus on performance evaluation, intergovernmental institutional analysis and municipal finance.

*Education:* Master of Public Administration and Management (International Development), University of Leipzig, Germany

*Languages (other than English):* German (native), Spanish (fluent), Russian (intermediate)



**Wolfhart POHL**, *Senior Environmental Specialist*, joined the World Bank in 2006. Work experience: About 12 years in the private sector on engineering geological and environmental assignments, mainly in infrastructure, land reclamation and mining projects. Special experience in geo-hazard investigation and mitigation (mostly slope instabilities, landslides) and brownfield/mine waste remediation. Regional work experience in Western and Eastern Europe, Latin America, Africa, Middle East, Central, South and Southeast Asia.

*Current work program:* About 50% working with the Europe and Central Asia regional safeguards coordinator as safeguard specialist, the remaining 50% in operations, dealing with mine spill risk mitigation, environmental impact assessment in geothermal energy and pipeline projects, environmental hot spot cleanup operations and mine waste and degraded land remediation.

*Strengths:* Mainstreaming environmental agenda into engineering projects; understanding technical and organizational challenges of large civil engineering projects; hands on technical experience in geotechnical engineering (tunnelling, slope stability), mining, mine waste management and mine remediation, natural hazards investigation and management; very good skills in communication and presentation, delivering lectures and training of various stakeholder groups in development projects (ministerial to community level).

*Education:* M.S. (Geology, focus on structural and ore deposit geology); Ph.D. (Geosciences, focus on environmental geochemistry); Goettingen University, Germany.

*Languages (other than English):* German (native), French (good), Spanish (good).



**Richard POLLARD**, *Senior Water Supply and Sanitation Specialist*, joined the Bank in 1983 and spent much of his career with the Bank's Water and Sanitation Program, a technical advisory service. Mr. Pollard has worked in all regions except Latin America on matters relating to both rural and urban water supply and sanitation services, community-driven development, impact evaluation, strategic sector planning, private sector participation, and sustainable sanitation. He has extensive experience with program planning and management, and he has led a number of Bank lending operations as well as economic and sector work in the water and sanitation sector. Before joining ECSSD, he was Regional Team Leader for the Water and Sanitation Program in East Asia and the Pacific. Prior to joining the Bank, Mr. Pollard worked with the John Snow Public Health Group on rural development and education projects in Africa.

*Current Work Program:* Mr. Pollard is currently leading a regional study of consumer experience with water and sanitation services in Georgia, Kyrgyz Republic, Moldova, Tajikistan, and Serbia. He is also leading technical assistance to the Government of Kazakhstan for strategic planning for Public Utilities Reform, under the Joint Economic Research Program. Other work includes analytical and operational work in Macedonia and Georgia.

*Strengths:* Water supply and sanitation project design and management, strategic sector planning, community-driven development.



*Education:* B.Sc. (Behavioral Psychology), Bucknell University; M.S. (Water Resources Management), University of Wisconsin—Madison.

*Languages (other than English):* Bahasa Indonesia (good); Kiswahili (fair), Nepali (fair)



**Lucian POP**, *Senior Social Development Specialist*, joined the Bank in 2005. Before joining the Bank, he was a lecturer at the University of Bucharest's School of Sociology and Social Work where he specialized in social protection, social development, and poverty analysis. In addition, Mr. Pop worked as a consultant

with UNICEF and DFID in Romania, the Republic of Moldova, and Russia, providing technical assistance and training in poverty analysis, social programs evaluation, and the assessment of social problems at local and regional levels.

*Current Work Program:* Rural and regional development, social inclusion, poverty monitoring, social safety nets.

*Education:* M.A. (Sociology), University of Bucharest.

*Languages (other than English):* Romanian (native); French (good).



**Cordula RASTOGI**, *Transport Economist*, joined the Bank in 2005 through the Young Professionals Program. Her primary areas of expertise include transport planning, the economics of the transport sector and trade and transport facilitation with experience in a number of countries and different sectors in East

Asia & Pacific, South Asia, Europe and Central Asia and

Africa. Her recent work included a watershed management project in China, rural infrastructure development in the Philippines and Mongolia, advice on a national transport corridor improvement program in Pakistan, customs and trade facilitation in Afghanistan, rural accessibility, and transport competitiveness and public expenditure related analytical work. She also worked as a Research Associate in International Economics in Washington DC based Think Tank, as an Assistant Commissioner at the Ministry of Transport in France, and as a Business Consultant at a Technology Park in Berlin.

*Education:* B. Sc. (Economic Policy) Berlin, M.A. (Service Public) Paris, and Ph.D. (Economic Policy/Transport Planning) Free University of Berlin.



**Andreas ROHDE**, *Sanitary Engineer*, joined the Bank in 1996 as a participant of the Staff Exchange Program between the Bank and the Private Sector. In 1999 he became regular staff. Before joining the Bank he worked in the Water Supply and Sanitation Department of Lahmeyer International, one of Germany's largest consulting companies. There he worked on water projects in Germany, Greece, Lebanon, and Turkey. After joining the Bank's Europe and Central Asia region he worked on water projects in Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Hungary, Poland and Turkey. Since 1999 he has managed the Bank's water portfolio in Albania, which includes the assistance in the preparation of the country's Urban and Rural Water Strategy and the preparation of a management contract for four medium sized cities.

*Current Work Program:* Program Team Leader for the water sector in Albania and member of the water team for Serbia and Montenegro.



*Strengths:* Project design and implementation, engineering in water supply and sanitation; rural and urban water sector strategy, private sector participation and environmental impact assessment in the water sector

*Education:* Master's Degree in Biology, University of Karlsruhe, Germany, and Doctor's Degree in Civil Engineering, University of Karlsruhe, Germany.

*Languages (other than English):* German (native), French (fair)



**Pekka Kalevi SALMINEN**, *Senior Energy Specialist*, joined the Bank in 2001. His specialties are district heating, energy efficiency, and combined heat and power plants. He currently works on district heating rehabilitation and energy efficiency projects in Belarus, Bulgaria, Croatia, Romania, Serbia and Montenegro, Kosovo, Moldova, and Ukraine.

*Current Work Program:* Energy sector, district heating rehabilitation, and energy efficiency projects.

*Strengths:* Sector review, planning and management of large energy and infrastructure projects, project feasibility studies, economic analysis, and procurement.

*Education:* M.S. (Engineering), Technical University of Helsinki, Finland, 1977.

*Languages (other than English):* Swedish, German, Finnish (native).



**Gevorg SARGSYAN**, *Senior Infrastructure Specialist*, joined the Bank in 2000. During six years of experience at the World Bank's Energy and Infrastructure Department, he has been involved in developing and supervising investment projects, carrying out analytical and research work, assisting in sector reforms in Armenia, Georgia, Russian, and Central Asia. Prior to joining the Bank, he worked as a senior manager in various private and public sector organizations.

*Current Work Program:* Mr. Sargsyan is currently the Country Sector Coordinator of the World Bank Infrastructure and Energy Program in Russia. He is actively involved in preparation of new programs in energy and infrastructure sectors as well as in research and analytical activities in housing and communal services, energy efficiency, energy policy and regional infrastructure development. In addition, Mr. Sargsyan works on energy projects in Armenia.

*Strengths:* Multi-sectorial operations and studies, public-private partnership, utility regulations, financial analysis.

*Education:* Postgraduate research at University of California, Berkeley; Post Graduate Study in Finance at the Armenian National Academy of Science; Master's degree in applied mathematics from the Yerevan State University, Armenia.

*Languages (other than English):* Armenian (native), Russian (excellent).



**Sudipto SARKAR**, *Lead Specialist*, joined the Bank as a Young Professional in 1993 and worked on a number of infrastructure and environment projects in many countries in the Europe and Central Asia (ECA) Region of the Bank, including Turkey, Romania, Bulgaria, Croatia, and FYR

Macedonia. He has worked both in the Bank's headquarters and in the field office in Croatia. Prior to joining the Bank, Mr. Sarkar worked in the US private sector for about seven years in consulting companies that provided infrastructure and environmental services to industries, regional, and local water authorities, and the US Government.

*Current Work Program:* Mr. Sarkar is the infrastructure sector co-ordinator for Romania, Bulgaria, and Croatia and he coordinates Bank's infrastructure and energy activities in these countries apart from managing some projects.

*Strengths:* Broad knowledge of infrastructure and energy issues; ability to lead policy dialog with the Government; knowledge of Bank's operations; and ability to effectively work with teams.

*Education:* B.Sc. (Civil Engineering), Indian Institute of Technology; M.S. (Environmental Engineering), Tufts University, Massachusetts; and M.B.A., Georgetown University, Washington DC.

*Languages (other than English):* Hindi (fluent); Bengali (native).



**Andreas SCHLISSLER** is a *Transport Economist and Transport Infrastructure Specialist* with 25 years of work experience. He started his career in a large freight forwarding company based in Germany, but quickly moved on to work as an international consultant specializing in transport infrastructure

planning and transport project development (roads, rail, ports). His numerous assignments took him to more than 40 countries, mostly in Latin America, Africa and Europe. In the early 1990s, while working with the UN Economic Commission for Latin America and the Caribbean, he

started working on the development of new approaches for Road Network Management and Maintenance. At that time, he proposed and developed the idea of Performance-based Management and Maintenance of Road Networks, and he has since helped to implement this concept in various countries.

Since 1996, Andreas Schliessler is a staff member of the World Bank, working as a Task Team Leader for transport projects in Africa, Latin America, the Middle East and, since 2006 also in Eastern Europe. In addition, he has been the driving force behind the development of the World Bank's Sample Bidding Document for PMMR—Performance-based Management and Maintenance of Roads (2002) and more recently for OPRC—Output- and Performance-based Road Contracts (2005). As a specialist for such Output- and Performance-based contracts, he provides support to numerous Bank-financed projects worldwide and delivers training seminars on a regular basis.

*Current Work Program:* Task Team Leader for transport sector projects in Poland, Moldova and Macedonia. Cross-support bankwide in the area of Output- and Performance-based Road Contracts.

*Strengths:* Project design and implementation, Transport Sector Strategies.

*Education:* Master's Degree in Transport, University of Bremerhaven, Germany; Postgraduate studies in Economics at University of North Carolina at Charlotte, N.C (USA).

*Languages:* English, French, Spanish (excellent), German (native), Portuguese (good).



**Helmut SCHREIBER**, *Lead Environmental Economist*, joined the Bank in 1991. He has been working in the environment area until June 1999 and has joined ECSEG in July 1999. In the Environment Department, he worked on environment projects with a focus on energy and air pollution issues and on environmental

administration. Before joining the Bank, he worked on environment and energy related projects as well as public finance projects at the Institute for European Environmental Policy in Bonn and London, the Science Center Berlin, the Center for International Studies of the University of Pittsburgh, the Polish Academy of Sciences in Katowice, and the Free University of Berlin.

*Current Work Program:* He is task-managing several energy-environment projects and studies in Poland, the Czech Republic, Slovakia, Hungary, Slovenia, Russia, Belarus, the Ukraine and Kazakhstan. He is also assisting task managers in preparing greenhouse gas reduction components of their projects.

Since July 2005, Helmut Schreiber is based in Moscow and assisting the Russian Government and Russian companies in developing carbon finance projects.



**Liljana SEKERINSKA**, *Operations Consultant*, joined the Bank in June 2004 as a member of the team preparing the Second Trade and Transport Facilitation for Southeast Europe (TTFSE II) Program. Prior to joining the Bank, she worked for three years in the Open Society Institute-Macedonia (Soros Foundation) on system

reform and economic reform. Her current responsibilities include work on the developing of the regional TTFSE II project and designing the TTFSE II APL for Bulgaria.

*Strengths:* Knowledge of multilateral trade system and regulations, EU acquis in trade and transport, experience in project development and management.

*Education:* LL.M. in International Legal Studies, focusing on international trade from Georgetown University, USA, 2003; Bachelor's Degree in Law from the University Sv. Kiril i Metodij, Macedonia, 2002.

*Languages (other than English):* Macedonian (native), Croatian/Serbian (fluent), German (good).



**Tatyana SHADRINOVA**, *Operations Analyst*, joined the Bank in 1997, and has been working as an Operations Analyst in the Russia Country Office since March 2006. Prior to that she was on a Developmental Assignment as of August 2004. Before joining the Bank, she worked at the Russian Privatization

Center (Moscow, Russia) as a part of the team coordinating implementation of international restructuring projects and delivered lectures on mathematics at the Perm Academy of Agriculture.

*Current Work Program:* Currently works on on-going infrastructure and energy projects in the Russian Federation; takes part in delivering fee-for-service activities and sub-national lending projects

*Strengths:* Project management and operational skills, knowledge of Bank procedures; working in inter-disciplinary teams and ability to work on multiple tasks, strong analytical skills, establishing good working relationship with clients and partners, good team player.

*Education:* M.B.A (project management), Moscow University of Economics, Statistics and IT, Russia, 2005; Master's Degree in Mathematics, Urals State University, Ekaterinburg, Russia, 1992.

*Languages (other than English):* Russian (native), Spanish (beginner).



**Bekzod SHAMSIEV**, *Senior Agriculture Economist*, joined the Bank in 1999 as a rural operations officer in Uzbekistan Country Office, with primary areas of responsibility in economic and sector work and investment operations in Uzbekistan. Since being promoted to Agricultural Economist and relocating to the Bank's headquarters in 2002, he has worked on a diverse group of countries and activities, ranging from Rural Sector Strategy for Armenia and Country Economic Memorandum for Belarus to Agriculture Public Expenditure Review for Russian Federation and technical assistance for capacity building effort to strengthen food quality management in Lithuania (as task team leader for the latter two). As the rural sector team member on Tajikistan and Kyrgyzstan Country Teams, he worked in a range of operations, as task team leader for the Agriculture Policy Update and Livestock Sector Review in the Kyrgyz Republic and for the Agriculture Sector Strategy Paper and Cotton Sector Recovery Project in Tajikistan. His previous work experience included one year in the European Bank for Reconstruction and Development's representative office in Uzbekistan where he worked on energy, mining and banking sector projects, and one year in the private sector where he worked on marine and aviation reinsurance with partner companies at the Lloyd's of London.

*Strengths:* Agricultural policy, agricultural sector strategy, institutional restructuring. He also has experience in rural finance and project's economic and financial analyses.

*Education:* M.A. (Agricultural Economics), University of Manchester.

*Languages:* Uzbek and Russian (fluent).



**Deepti SHARMA**, *Office Manager*, joined the Bank in 2000. She became an Office Manager of the Sustainable Development Department in October 2005. Deepti is responsible for the unit's work flow, workload, support systems, and office support resources to effectively and efficiently meet the demands of the work program. She coaches, mentors and encourages administrative staff to develop individual skills based on the business needs and individual ability. Solicits and consolidates work team inputs and provides, in consultation with all team members, regular and constructive feedback on performance. Holds regular monthly meetings for the administrative staff, where they are encouraged to speak up, air their ideas and views, and then acts as the bridge by carrying their suggestions back to the management team. Serves as the first point of contact with Human Resources, is responsible for recruitment of administrative staff. Responsible for floor space planning, assign space and equipment to staff, keeps track of office equipment and organizes office moves. Watches out for and handles sensitive situations, mediating between staff at all levels and using sound judgment to determine appropriate action.

*Strengths:* Inter-personal skills, positive attitude, patience, and command of English.

*Education:* Post-Graduate diploma in Personnel Management & Industrial Relations, Annamalai University, India, 2006; B.A. (Sociology), Punjab University, India, 1986.

*Languages (other than English):* Hindi, Punjabi & Tamil (fluent); French (fair).



**Raghuveer SHARMA**, *Lead Financial Analyst*, has been with the World Bank since 1983. Prior to his current assignment, he spent more than two years with ABB, a Europe-based global energy company, and was responsible for Structured Finance and Corporate Strategy functions. Prior to joining the

World Bank, Raghu worked for a private conglomerate in India for five years. During his tenure in the Bank, he has worked in the electricity, petroleum, telecommunications, transport, and environmental sectors. His focus in the last decade has been sector reforms, privatization, and enabling private sector project finance deals. More recently, he has been successful in promoting private sector participation in the power sector through public-private partnership approaches. His geographical experience covers South Asia, East Asia, Europe, CIS and Central Asia, and the Middle East.

*Current Work Program:* Team leader for Central Asia energy programs.

*Education:* Degree in electrical engineering, Bangalore University; Post-Graduate Diploma in International Trade, Indian Institute of Foreign Trade; M.B.A. (Finance) George Washington University, U.S.A.



**Cora SHAW**, *Senior Agricultural Economist*, joined the Bank in 1979. Prior to joining the Sustainable Development Department in Europe and Central Asia Region (ECA) in June 2006, she served as Senior Program Officer at the Global Program and Partnerships Unit of the Concessional Finance and Global

Partnerships VPU, where she worked on the Bank's Global Programs, reviewing Development Grant Facility proposals

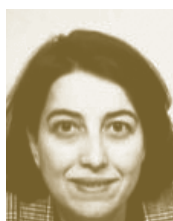
from the ESSD Network and the Latin America Region (LAC), as the liaison officer for the European Commission and Switzerland, all while providing operational cross-support to projects in Cambodia, Ghana, Brazil and Peru. She shortly managed the Bank-wide Bank Netherlands Partnership Program and was the team leader for the corporate cofinancing and donor relations function. Before CFP, Cora worked for more than a decade in LAC on land administration and reform, as well as on research and extension, rural finance, natural resources, and the environment, and was the leader of the ARD Land Policy and Administration Thematic Group. Prior to joining the Bank, Cora conducted field evaluations and research on a tube well project in Gujarat (India), irrigation in Taiwan, and worked for IBM.

*Current Work Program:* Working on Moldova, Kosovo, Bosnia, Romania, Georgia and Ukraine on land policy and administration, rural development and the environment.

*Strengths:* Land policy, land administration, land reform, land consolidation. Particularly interested in linkages between spatial development and land administration and management, agricultural competitiveness and European Accession, green environmental issues and natural resource management.

*Education:* M.A. (Economics), George Washington University, Washington, DC, U.S.A.; M.A. (Development Studies), Institut Universitaire d'Etudes de Developpement, Geneva, Switzerland.

*Languages (other than English):* Spanish (native), French (native level), Chinese (fair), Portuguese (survival).



**Karin SHEPARDSON**, *Senior Operations Officer*, joined the Bank in 1994 as a Young Professional.

*Work experience:* Senior Environmental Economist and Senior Regional Coordinator in ECA Region between 1995–2001; and served as program team leader for Estonia, Latvia, Lithuania, Belarus, Ukraine, and Georgia. Karin served as Global Environmental Facility (GEF) Coordinator for both ECA and Latin America (LAC) Environmentally and Socially Sustainable Development Departments, in close collaboration with the infrastructure (energy, transport) and carbon finance teams. Between 2004–7 she lead Bank rural and environment operations from the Zagreb, Croatia Southeastern Europe Regional Hub Office. Prior to joining the World Bank, Karin worked as a Senior Engineer at Metcalf & Eddy, on water resources planning; solid and hazardous wastes; water supply and wastewater; and environmental permit and impact assessments with key clients including NASA, City of Boston, and US Navy. Other work experience includes the Boston Metropolitan District Commission (Water Utility), Morton Chemical, Institute for Policy and Security Studies; Boston Survey Consultants; and Student Conservation Association in Bavaria Germany.

*Current Work Program:* Karin is currently based in Washington DC and works on the environment, and rural development programs. She is leading ESW on environment institutions; managing preparation and supervision of several IBRD loans and GEF grants; and is providing sectoral input into public finance reviews.

*Strengths:* Bank operations and portfolio quality; integration and intersectoral coordination; teambuilding; country program support, and client relations.

*Education:* B.A. (Economics and Business; Environmental Studies), Macalester College; M.S. (Civil Engineering; Urban and Environmental Policy), Tufts University.

*Languages (other than English):* Spanish (intermediate); Russian, Croatian, German (survival).



**Sameer SHUKLA**, *Senior Energy Specialist*, joined the Bank in June 1996 in the South Asia Region; he has been working in the Infrastructure and Energy Department of the the Europe and Central Asia Region since November 2004.

*Current work program:* Working on electricity and gas sector projects in Turkey; this includes preparing, appraising and supervising projects in electricity transmission and distribution, generation rehabilitation, and gas transmission investments. Also responsible for the dialog on electricity sector reforms, including on the introduction of an electricity market, privatization of distribution, and restructuring and privatization of generation. Recently completed preparation of policy notes and reports on electricity supply security in Turkey, and experience in greenfield gas distribution in Turkey. Work in South Asia included leading a power restructuring project in Rajasthan, jointly managing a similar project in Uttar Pradesh, and working on the financial aspects of power sector restructuring in other Indian states such as Haryana. Jointly managed the preparation of a strategy for the Bank's involvement in the hydro sector in India, and started preparation for the first hydro project pursuant to this strategy. Also worked on several sub-national adjustment operations with primary responsibility for the dialog on power sector reforms and the integration of power sector finances into the overall fiscal framework. Provided cross-support to Bangladesh and Tanzania—the former included preparation



of the sectoral financial analysis for a partial risk guarantee for an independent power producer (IPP). Main strengths are in the area of power sector restructuring, particularly privatization and regulatory aspects, and financial analysis and financial restructuring of utilities.

*Prior Experience:* From 1994 to 1996, worked in the Corporate Finance division of Price Waterhouse, focusing on consulting and financial advisory work in the energy sector.

*Education:* M.B.A. (Finance), Indian Institute of Management Calcutta, India, 1994.



**Sanjay SINHA**, *Operations Officer*, joined the Bank in July 1998, coming from the Petroleum Finance Company, a consulting firm providing advisory services in the area of competitive analysis, acquisitions, new business entry and project development opportunities.

He authored a number of surveys on the international upstream business analyzing trends in fiscal regimes, project finance and international capital markets. Since joining the Bank, Sanjay has been working in area of Information Technology. He works with borrowers to introduce industry best practices, help conduct needs assessment, assess costs and benefits of make Vs. buy software, conversion of legacy IT systems and training requirements. Sanjay has also implemented a web-based Geographical Information System using Open Source software. This system gives any utility to opportunity to get acquainted with spatial data analysis, before purchase.

*Strengths:* Analysis of petroleum fiscal regimes, Database and Management Information Systems (MIS), Geographical Information Systems (GIS), Image processing, Software licence negotiations and National data inter-change and standardization policies.

*Education:* M.B.A., Erasmus University, Rotterdam, Netherlands; M.S. (Energy Policy), Norwegian School of Management, Sandvika, Norway; Managing Public Private Partnerships in Infrastructure at MIT, Cambridge, MA.



**Radhika SRINIVASAN**, *Senior Social Scientist*, joined the Bank in 1996. Before joining ECA, she worked in South Asia. In ECA, her experience includes defining the strategic direction for the ECA social development team, analytical work on gender, integrating social development perspectives into the preparation and

implementation of investment projects and adjustment lending, managing community-based projects, and providing operational guidance and support to projects and programs with complex safeguard policy issues. Her operational experience includes work across a range of sectors and issues, including agriculture reform, land titling, rural finance, protected area management, urban land management, wetlands restoration, environmental remediation, municipal finance and decentralization, education, and infrastructure, including transport. She currently task manages the Social Review process for investment and adjustment operations, the Albania Community Works II project, and the Albania Participatory Budgeting Pilot, and provides cross-support on a variety of infrastructure and rural projects. Her fundamental skills include social, economic and policy analyses. Her strengths are in strategic thinking, working across disciplines and sectors to formulate social development objectives underpinning investments, building participatory approaches into project design and implementation to ensure equitable distribution of benefits, balancing policy and practice, and tailoring practical approaches that are compatible with corporate priorities.



*Education:* Ph.D. (Development Studies) Cornell University; M.Ph. (Applied Economics), Centre for Development Studies, Trivandrum; India. M.A. (Economics), Madras University.

*Languages (other than English):* Tamil and Malayalam (native), Hindi (fluent), Spanish (beginner).



**Victoria STANLEY**, *Operations Officer.*

Before joining the Bank, she held several research and management positions (US Holocaust Memorial Museum, National Security Archive, United Way of Allegheny County). Joined the World Bank in 1998 in the World Bank Institute (WBI) working for the CAO's Office. Supported WBI strategic development and work programming, designed the key performance indicators for WBI, and worked on the design and implementation of WBI's information management system. Joined the Europe and Central Asia Region in 2002 working on land administration projects.

*Current Work Program:* Land administration projects in Croatia, Macedonia, Serbia, Romania, Azerbaijan and Kosovo.

*Strengths:* Land administration project design and implementation; project management; project monitoring and evaluation.

*Education:* M.P.A., University of Pittsburgh Graduate School of Public and International Affairs, 1996; B.A., Cornell University, 1991.

*Languages (other than English):* Spanish (survival).



**John Fraser STEWART**, *Senior Natural Resources and Biodiversity Specialist*, joined the Bank in 1993, working initially in the Middle East and North Africa Region (MENA) developing arid lands and coastal environmental management projects and regional programs, largely associated with the Middle East Multilateral Peace Process.

Subsequently, he led participatory development of sector strategies and natural resource management operations in Eastern Europe, the Balkans and Turkey, including forestry, biodiversity conservation, watershed management, natural hazard mitigation, and fisheries. Under the Staff Exchange Program, 2002–2004, he served as the Hanoi-based Regional Director for an international environmental NGO, responsible for a broad range of conservation, natural resource management and rural development projects and strategic initiatives across the Asia Pacific region. He has twelve years of pre-Bank professional experience of planning and implementing wildlife management and natural resource-based rural development and conservation initiatives in Melanesia, East Asia and East Africa.

*Current Work Program:* Currently based in Kyiv, Ukraine, where he is contributing to developing and coordinating the SD program (environment, natural resources and agriculture) with emphasis on Ukraine, Moldova and Belarus, as well as leading natural resource management operations and sector work in these and other Europe and Central Asia countries. *Strengths:* Broad knowledge of the green environmental agenda, and extensive practical experience of building and managing effective operational teams and engaging multiple stakeholders in identifying, preparing and implementing sectoral strategies and programs, and sustainable rural development projects.

*Education:* B.Sc. Hons (Biological Science/Zoology), University of Nottingham; MIBiol, CIBiol, Institute of Biology, London.

*Languages (other than English):* Bahasa Indonesian (good), Hiri Motu (good), French (fair), Russian (beginner), Vietnamese (beginner).



**Joop STOUTJESDIJK**, *Lead Irrigation Engineer*, joined the Bank in 1996. Prior to that date, he worked as an engineer at the Food and Agriculture Organization (FAO) from 1982 to 1996, living in and working on projects in Malawi, Zambia, Zimbabwe, Lesotho, Nigeria, Botswana, and Mongolia. Main focus of his work

was on design and construction supervision of irrigation and drainage projects and small and medium-sized dams; capacity building and training of staff of irrigation agencies; and preparation of investment projects.

*Current Work Program:* Task Team Leader for various projects in Azerbaijan, Georgia, Kazakhstan, and Kyrgyz Republic, and Economic Sector Work in Turkey. The main focus is on preparation and implementation review of water resources projects and irrigation and drainage projects, including development of institutions and Water Users Associations. Also works on rehabilitation of uranium tailings and development of Emergency Management and Monitoring capacity within the Kyrgyz government.

*Strengths:* Project design and review related to integrated water resources management, irrigation and drainage, development of Water Users Associations, and disaster management.

*Education:* Master's Degree in Civil Engineering from Delft University of Technology in the Netherlands (1982).

*Languages (other than English):* Dutch (Native), French (beginner), German (Fair), Russian (Beginner).



**Samir M. SULEYMANOV**, *Senior Operations Officer*, joined the World Bank in 1996 with experience in private sector working for investment funds for emerging markets. His project experience in the Bank includes such sectors as natural resource management, land management, environmental pollution,

oil and gas, and rural and micro finance. He has worked in many Europe and Central Asia countries, focusing on Russia, Moldova, Ukraine, Azerbaijan, and Kazakhstan, but also in Kyrgyz Republic, Poland, Macedonia, and Georgia. He contributed to the Bank's analytical work in the region working on sector strategies and sector work, such as Microfinance in Central Asia: Constraints and Opportunities. Samir also contributed to mainstreaming of new Bank instruments, like Carbon Finance, into its business line and worked on first Community Carbon Fund Projects in the region; also helped streamlining preparation and approval procedures for such projects.

*Current Work Program:* Operational advisor to the Country Director for Russia and rural and environmental sector portfolio coordinator, based in Moscow. Samir is managing projects on land management and microfinance in Russia, and helping on implementation of other projects in rural, social, and natural resource management sectors. He is also assisting the Country Unit with development of new instruments for the Bank in Russia, applicable to other MICs such as sub-sovereign lending to regions and reimbursable analytical services by the Bank. He is also leading the development of the Bank's work program in selected regions of Russia. In parallel, Samir is helping operational teams working in other countries—Ukraine and Azerbaijan—in preparation of innovative Carbon Finance projects based on Public-Private Partnerships.

*Strengths:* Ability to work on multiple tasks, including analytical and operational work, various countries, and

diverse teams; a good team player—engaged, collegial, energetic, willing to share and help; innovative and entrepreneurial—prepared innovative projects combining various funding sources, such as GEF, Carbon Finance, and Bank loans; identified new areas for engagement in Russia, both federally and in regions.

*Education:* M.B.A., George Washington University; B.Sc., Georgetown University.

*Languages (other than English):* Azeri (native), Russian (fluent), Turkish (fair).



**Tamara SULUKHIA**, *Urban Development Consultant*, began to work at the Bank in 2004. Before joining the Bank, she served as a Minister of Infrastructure and Development (2004), as Head of Local Governance Center (2002-2003), was Fulbright visiting scholar at George Washington University (2001-2002), and

served as Development Assistance Specialist at USAID/Caucasus (1997–2001).

Since 2002, she has been teaching Urban Policy at the Georgian Institute of Public Affairs.

*Current Work Program:* Works on transport, urban and water portfolio in Georgia, and urban portfolio in Azerbaijan.

*Education:* Ph.D. (Urban Planning), Georgian Technical University, 1997.

*Languages (other than English):* Georgian (native); Russian (fluent).



**William SUTTON**, *Senior Agricultural and Resource Economist*, joined the Bank in 2000. He has a broad background in agricultural development, natural resource management and environment on both operational and analytical levels. He has over nine years of experience of increasing responsibility as a manager

and member of interdisciplinary teams identifying and preparing development projects, conducting rigorous economic analysis of various sub-sectors, providing practical strategic recommendations to clients in both International Development Association (IDA) and International Bank for Reconstruction and Development (IBRD) countries, and leading dialogue on policy reform with governments and other stakeholders. He also worked for the Bank in the East Asia and Africa Regions. Before joining the Bank, Mr. Sutton spent a year as a Fulbright Scholar analyzing protected area and wildlife management in the Namibia Ministry of Environment and Tourism; worked for three years as an agricultural extension agent; and worked for one year as an analyst for Ford Aerospace.

*Current Work Program:* Work in Europe and Central Asia Region has included leading the analytical work and dialogue with the government on agricultural policy in Moldova, and using this as the basis for designing project interventions; managing the Baltic Sea regional large marine ecosystem project; producing a strategy for development of the fisheries sector in Kazakhstan, including investment concepts; and identifying constraints and solutions to agricultural value chain development in Azerbaijan.

*Strengths:* Deriving practical policy and investment recommendations based on rigorous economic analysis; linking natural resource management, environment, and agriculture issues, and integrating these in the macro-economic development framework; constructively engaging with clients on challenging policy issues.

*Education:* Ph.D. (Agricultural & Resource Economics), University of California, Davis; M.S. (Agricultural & Resource Economics), University of California, Davis; B.A. (Economics and Business Management), University of California, Irvine.

*Languages (other than English):* French (good).



**Arlene TATE**, *Office Manager*, joined the World Bank in 1983. In July 1997, she joined the Europe and Central Asia (ECA) Region as Office Manager, Infrastructure Unit, and was appointed as the ACS representative for the regional steering committee working on the development of the organizational restructuring strategy for the regional ACS teams. Prior to joining the ECA region, she worked in the Latin America region where she served as Office Manager in various units and was a member of many regional/institutional managerial and administrative committees (e.g., Office Manager/Office Administrators' Clearance Panels and Assessment Center). In addition, to her current responsibilities as Office Manager of the Sustainable Development Department, she is the Head of the ECA ACS Steering Committee, responsible for the design and development of the regional ACS learning strategy and for the delivery of a variety of training programs (Leadership, Operational and Communications courses); development of the training program for the ECA ACS Learning Weeks; and monitoring of the regional ACS DAIS program. During the period of December 2004–September 2005, she had the opportunity to work in HRSLO with the client Engagement Team, where she worked in various institutional training programs (e.g., Negotiations Skills, Leading Strategic Change, Foundations of Teamwork, Culture Active, Communicating Effectively for Results, etc.) and served as Acting Operations Analyst responsible for monitoring the unit's work program and portfolio deliverables

for all HRSLO training activities, monitoring all training evaluations, and drafting the Client Engagement Quarterly Reports and Learning Program submissions.

*Current Work Program:* Leadership, management and mentorship of ACS staff for the Energy, Transport and Urban/Water sectors of the Sustainable Development Unit for Europe and Central Asia Region; departmental Learning/Conference Coordinator; Head of the ECA ACS Steering Committee; Member of the ECA Learning Board; Board Member of the ACS Network (including member of the ACS Network Learning Committee and other task forces).

*Strengths:* Leadership, interpersonal, organizational and operational skills; management of multi-cultural ACS teams; coaching, counseling, empowerment and development of ACS staff; coordination and development of unit's ACS organizational structure and work program, skills mix and operational/administrative procedures; and analysis of development of regional ACS learning strategy and training programs.

*Education:* M.S.—Human Resource Management-Training & Development; BS Business Administration-Management & Labor Relations (University of Maryland); Certificate in Human Resources (The George Washington University).

*Languages:* Spanish (native); Portuguese (fluent); French (fair).



**Peter THOMSON**, *Sector Director*, joined the Bank in 1997. Prior to joining the Bank, he worked for more than twenty years in the oil and gas industry, primarily with Mobil Corporation where he held numerous technical and managerial positions, including the post of President of the Mobil Companies in Turkey; Vice

President of Mobil Europe; and Assistant Treasurer of Mobil Corporation. Since being associated with the Bank, he has been extensively involved with the development of energy strategies for countries within the former Soviet Union. He has taken a lead role in assessing implicit subsidies and the associated quasi fiscal deficit in the energy sectors of the CIS countries. He has also worked with the oil funds of Kazakhstan and Azerbaijan and has had substantial involvement in developing the tools to project oil revenues in those countries.

*Strengths:* Development of energy strategies and investment plans; linking energy sector and macro-economic issues; understanding of the international oil and gas markets; understanding of international capital markets; project evaluation and financial analysis.

*Education:* M.A. (History), Cambridge University.

*Languages (other than English):* French (fair), Russian (intermediate).



**Zaruhi TOKHMAKHIAN**, *Operations Officer at Armenia Country Office* joined the Bank in 1994 and worked as Human Resources Analyst at Armenia Country Office for seven years. She joined the ECA Infrastructure Department in 2005; since then, has been involved in developing and supervising investment lending projects, carrying out analytical and research work, and promoting sector reforms. Prior to joining the Infrastructure Department, she worked for a year at the Department of Finance, Treasury Division, at the City of Pasadena, California, USA, as a Program Analyst.

*Current Work Program:* Ms. Tokhmakhian is working on water and wastewater, condominium, and transport projects in Armenia. She is actively involved in infrastructure sector

policy dialog, research and analysis. *Strengths:* Well-developed understanding of investment portfolio and of specific country and sector issues, good relationship with clients, analytical, communications and interpersonal skills.

*Education:* M.P.A. (Urban Management), School of Public and Environmental Affairs, Indiana University, Bloomington, Indiana, U.S.A., 2002; M.A. (Linguistics), English Department, Briossov State Institute of Foreign Languages, Yerevan, Armenia, 1995.

*Languages (other than English):* Armenian (native), Russian (excellent), Spanish (beginner).



**Vladimir TSIRKUNOV**, *Senior Environmental Engineer*, joined the Bank 1994 as local environmental specialist in the Moscow Country office. Before joining the Bank, he was working as a scientist in water quality monitoring, assessment and modeling in the USSR and Russia. In the Bank's portfolio in Russia, he dealt primarily with pollution abatement, ODS phase-out, institutional strengthening and capacity building projects. Another area of involvement was environmental safeguards in energy, infrastructure, transport, forestry, water supply and sanitation projects. In 2004–2005 he prepared and launched the Russia Hydromet Modernization Project which may serve as case of integrated development of public sector in provision of meteorological and hydrological services. In economic and sector work he contributed to such areas as evaluation of national capacity of environmental assessment, development of country environmental strategy, assessment of economic benefits of meteorological and hydrological services, review of past environmental liability and others. Besides Russia, he worked in Ukraine, Kirghiz, Caucasus, Belarus, Albania and Serbia. In 2005 he was transferred to the Headquarters.

*Current work program:* Task Team Leader for two loans (Environmental Management and Hydromet Modernization), grant (ODS Production Closure) and several minor ESW in Russia; GEF Grant for Methyl Bromide Phase out in Ukraine and one regional study dealing with weather and climate assessment in ECA. As environmental specialist he provides assistance to several infrastructure projects in housing and transport. He also started to work on the project preparation in Azerbaijan and Belarus.

*Strengths:* Project identification, preparation and management; interaction with clients, GEF projects, environmental assessment, water quality assessment and management.

*Education:* Diploma of Engineer-geologist (Hydrogeology), Rostov State University, USSR; Ph.D. (Geography), Hydrochemical Institute, Rostov-on-Don.

*Languages (other than English):* Russian (native).



**Talimjan URAZOV**, *Operations Officer*, joined the Bank in 2003 (initially as a short-term consultant and in 2004—as a staff member) after working for five years in the Ministry of Economy of the Republic of Kazakhstan. He is dealing with agricultural and forestry projects in Kazakhstan. Initially, he helped with preparation of the drylands management project and then he joined Bank teams preparing forestry projects and agricultural competitiveness project. He actively participated in the livestock and fishery sector studies helping with data collection and formulation of recommendation in the context of political environment; recently, he was involved in agricultural policy assessment being responsible for taxation part of the study.

*Current work program:* Operations Officer for Agricultural Post-Privatization Assistance Project, Agricultural Competitiveness Project, and Forestry Protection and Rehabilitation Project.

*Strengths:* Data processing, networking with government officials, negotiation skills, economic analysis.

*Education:* Bachelor in Business Administration, Chukurova University, Adana, Turkey; Master in Public Administration, Graduate National Institute for Policy Studies, Tokyo, Japan.

*Languages (other than English):* Russian (excellent), Turkish (excellent).



**Bulat UTKELOV**, *Operations Officer*, joined the Bank in 1998 after working as a head of a department and a professor at the Kazakh State National University. Mr. Utkelov has published one monograph, 106 scientific articles, and has 18 patents. He was elected a member of the Council on Chromatography of the Academy of Sciences of USSR and represented Kazakhstan and the Council at international conferences and meetings. For two years (1996–1998), he was Country Director of ACDI/VOCA—Kazakhstan, gained experience working jointly with USA environmental and agricultural specialists, and provided start-up business consulting services to new Kazakhstan entrepreneurs during the first years of transition.

*Current Work Program:* Mr. Utkelov works on investment projects financed by the World Bank and GEF in Kazakhstan in the sectors of sustainable agriculture, water, forestry, renewable energy addressing environmental concerns including climate change mitigation, improvement of natural resources use, and conservation of biological diversity. He



participated in surveys on the livestock and fishery sectors of the country. Has been an active member of the team which identified and developed the Dry Land Management Project funded by the GEF Grant. Works as the Task Team Leader for this project and manages its US\$10 million budget.

*Strengths:* Communications, team player; environment and natural resource management.

*Education:* Ph.D. (Chemistry), Kazakhstan Al-Farabi National University.

*Languages (other than English):* Kazakh (native), Russian (fluent).



**Katelijn VAN DEN BERG**, *Senior Environmental Economist*, joined the World Bank in 2002. She has twelve years of professional experience in the environment/infrastructure sector in both industrialized and developing countries including seven years of working for a Dutch Consultancy and Engineering Firm with extensive developing country experience. Primary areas of expertise include financial analysis of utility projects (water supply, wastewater and waste) and involvement in feasibility studies and project design in a wide number of sectors (waste, clean-up and remediation, energy efficiency and water/wastewater) and different countries and regions: Armenia, Bosnia, Bulgaria, Hungary, Kyrgyz Republic, Latvia, Lithuania, Moldova, Poland, Russia, Turkey, Slovenia, Ukraine and outside Eastern Europe: Burkina Faso, Cape Verde, China, Egypt, Ghana, India, Lebanon and Venezuela.

*Current Work Program:* Currently she is the Team Leader of the Nura River Clean-up Project in Kazakhstan that focuses on cleaning up heavily contaminated soil and river sediments (mercury) and constructing a secure landfill for its disposal

and the Albania Integrated Coastal Zone Management and Clean-up Project that focuses on operational strategies, institutional capacity strengthening for improved land-use management, coastal environmental infrastructure and rehabilitation as well as soil remediation works. She is also involved in the supervision of groundwater remediation and waste projects in Kazakhstan and Tunisia respectively and a lignite mine clean-up and land reclamation project in Kosovo.

*Strengths:* Financial assessments of utilities and public-private co-operation projects, project design in “brown environment” and project management and procurement.

*Education:* Master in Business Economics as well as Master in Environmental Economics, Free University of Amsterdam; and Master of Environmental Management, European Post-Graduate Course in Environmental Management.

*Languages (other than English):* Dutch (native), French, German.



**Frank VAN WOERDEN**, *Senior Environmental Engineer*. Before joining the Bank in 2005, he worked for 18 years in technical and later managerial positions for an international engineering and consultancy firm based in The Netherlands. Main fields of expertise are the development of institutional structures and the implementation of investment projects for environmental clean-ups, solid waste management, wastewater treatment and industrial pollution control. Main regions of operations have been Western, Central and Eastern Europe; Central America; Central Asia; South Asia; the Middle East; and North Africa.

*Current Work Program:* Team Leader of the Kazakhstan Ust-Kamenogorsk Environmental Remediation Project to control



groundwater pollution and contributing polluting sources and the Kosovo Energy Sector Clean-up and Land Reclamation Project to mitigate the risks associated to coal ash disposal and reclaim land taken by lignite mining activities. He is also active in environmental sector work, e.g. industrial environmental compliance in Turkey and provides assistance to other projects in the field of environmental clean-ups, solid waste management and wastewater treatment. Strengths: Institutional strengthening, project management, technical and technological know-how in solid waste management, soil and groundwater remediation and industrial pollution control.

*Education:* MSc. In Sanitary Engineering, Technical University of Delft, The Netherlands.

*Languages (other than English):* Dutch, German, French.



**Albena VATRALOVA**, *Operations Officer-Infrastructure*, WB Sofia Office, Bulgaria; joined the Bank in November 2006.

*Current work programme:* lending for trade and transport facilitation, technical assistance to the water services national regulator, Bulgarian Energy Efficiency Fund, energy sector advisory policy, green investment support.

*Previous experience:* as a full-time employee and a freelance consultant, e.g. Country Representative for Bulgaria of a world-based British consultancy company; EU PHARE and ISPA Local Expert; EU PHARE Project Preparation Facility Representative in Bulgaria; External Expert Marketing, Tendering and Contracting in the biggest Bulgarian construction company; Research Fellow in the biggest research institution in Bulgaria; R&D experience in the biggest UK university and water utility company resp.; Designer of water treatment plants in the then biggest Bulgarian water supply and sewerage consultancy company.

About 30 publications on: Euroization; regulation, financing and pricing of water services; PPP in infrastructure sectors; economic aspects of river basin management plans; environment pollution and protection, advanced wastewater treatment.

*Strengths:* analytical skills; multi-sector and interdisciplinary knowledge and experience at international level; broad organizational and leadership skills and experience;

*Education:* MBA (General Management); Master of Economics; Master of Science (Civil Eng. in Water Supply and Sanitation); International Economic Relations (Second Speciality), Business Administration in Banking (Diploma); Financial Analysis and Legal Regime of Investments (Certificate).

*Languages:* Bulgarian (native); English (excellent); Russian (good), French (fair), some German.



**Doina VISA**, *Operations Officer*, joined the Bank in 1997 as a long-term consultant and became a member of the staff in 2000. She worked as an Operational Officer for ECSPF (1997–1999) and joined the energy unit in July 1999. She has been involved in preparation and implementation of structural adjustment and investment

projects of the Bank for Private Sector, Energy Efficiency and Telecommunications, Power Sector Reform, Railway Sector Restructuring, TTFSE in Romania. Before joining the Bank, Mrs. Visa worked for the European Commission's projects in similar fields and for the Government's agencies in charge of the economic restructuring in Romania. Before 1989, she was Deputy Chief Engineer with an Aircraft Engineering Company and an Engineer with a company producing equipment for energy industry.

*Current Work Program:* PALs, Electricity Market (Task Team Leader), ECSEE- Lotru Hydro Power Plant rehabilitation, Partial Risk Guarantee, Mining projects, Second Roads, Transport Restructuring, SWAp -Transport.

*Strengths:* Thorough knowledge of the Romanian institutional and legal framework; strong ability to build relationships with counterparts/stakeholders; expertise in the business environment, project management, and Romanian energy and infrastructure sectors.

*Education:* Executive M.B.A., Washington State University, Seattle, and Academy of Economic Studies, Bucharest, 1995, Polytechnic Institute—Control System Faculty, Bucharest, 1975.

*Languages (other than English):* French (fluent), Russian (fair), Romanian (native).



**Juergen VOEGELE**, *Sector Manager*, joined the Bank in 1991 as a Young Professional. Prior to the Bank he worked as Associate Professor for two years and Consultant over a period of six years, including a three-year field posting in Western Samoa and assignments in about 20 countries in East and South Asia, Africa and the Pacific Islands.

At the Bank, after assignments in Eastern Europe and East Asia, he joined the China Department as an Agricultural Economist and later as Principal Agricultural Economist. In 1998, he transferred to the Beijing Resident Mission as Rural Sector Coordinator until 2004, managing and coordinating a diverse US\$3 billion rural sector investment program that included large scale irrigation programs, rural development and poverty alleviation programs, forestry operations, natural resource management schemes and

aquaculture investments. He joined ECSSD in July 2004 as Sector Manager, geographically responsible for Central Asia and the Caucasus Countries, and temporarily for the EU8 accession countries.

*Current Work Program:* Since January 2007, Juergen is the Sector Manager thematically responsible for Agriculture and Rural Development, and geographically in charge of ECSSD's Central Asia program, with back-up function for the Caucasus countries and Turkey.

*Education:* Juergen holds a Masters degree in Agronomy, Crop Protection and Tropical Agriculture, and a PhD in Agricultural Economics.

*Languages (other than English):* German (native)



**Carl-Fredrik VON ESSEN**, *Junior Professional Officer*, joined the Bank in 2005. He previously worked for the Swedish Government as handling officer for the EU agriculture grants. Other previous work experience involves a wide range of activities (from practical agriculture to science research).

*Current Work Program:* Natural Resource Development Program, Coastal Zone Management Program in Albania.

*Strengths:* Agriculture science coupled with practical experience and economics.

*Education:* M.S. (Biology/Agronomy); B.Sc. (Business Administration).

*Languages (other than English):* Swedish (native), French (intermediate and a little rusty), Albanian (beginner).



**Sohaila WALI**, *Program Assistant*, joined the World Bank in 1981. Prior to joining the Bank, she worked at UNDP, UNESCO, USAID (Afghanistan); TransCentury Foundation, Washington, D.C.

*Current Work Program:* Assisting four Senior Task Managers with their projects.

*Strengths:* Editing skills, organizational skills.

*Education:* B.A., Farsi & French Literature from Kabul University.

*Languages:* Farsi (native), French (good), Turkish (fair).



**Mahwash WASIQ**, *Agriculture and Water Resources Economist*, joined the Bank in 1996 as a long-term consultant in the ECA region working in Rural Development and Natural Resources Management Projects in Central Asia and Russia and the Baltics. Projects included: Uzbekistan Cotton Sub-Sector Project;

Uzbekistan, Agricultural Enterprise Restructuring Project; Russia, Agricultural Reform Implementation Support (ARIS) project; Russia, Sustainable Forestry Pilot Project; Russia, Agricultural Sector Adjustment Loan (AgSECAL)/ Regional Project; Kyrgyz Republic, Agricultural Support Services Project; Turkmenistan, Crop Protection and Animal Health Project; and Estonia, Agriculture Project. After working for three years, in 1999, she became a regular Bank staff; has been focusing mainly in the water sector, including in irrigation, drainage, water for environmental flows, and flood management. Projects include: Aral Sea, Water and Environmental Management Project; Kazakhstan Irrigation and Drainage Phase-I Project; Kazakhstan Syr Darya Control and Northern Aral Sea Phase-I Project; Kazakhstan Irrigation

and Drainage Improvement Project Phase-II; Kazakhstan, Syr Darya Control and Northern Aral Sea Phase-II Project; Poland Emergency Flood Recovery Project; Poland, Odra River Basin Flood Protection Project; Uzbekistan, Drainage Irrigation and Wetlands Improvement Phase-I Project; and Uzbekistan, Ferghana Valley Water Resource Management Project. Amu Darya Basin Study, on Water resources development in Northern Afghanistan and implications for Amu Draya Basin; and cross support for preparation of the Afghanistan, Emergency Irrigation Rehabilitation Project

*Current work program:* Agriculture and Water Resources Economist, managing and focusing on water resource management issues in project and operations in Uzbekistan, Kazakhstan and Poland. ECA representative to the Natural Resource Management Thematic Group.

*Strengths:* In-depth Knowledge of issues in water management issues including a basin approach to water management; knowledge of Bank's operations, policies and procedures; Client relations and orientation; people management and communications.

*Education:* M.A. (International Relations and Economics), Johns Hopkins School of Advanced International Studies; B.A. (Economics and International Studies/Soviet Studies), University of Nebraska at Omaha.

*Languages (other than English):* Russian (good), Pushto and Dari (Native); Tajiki (fluent).



**Michael WEBSTER**, *Senior Water and Sanitation Specialist*, joined the Bank through the Young Professional Program in 2003. Mike is an engineer and economist and has 12 years of work experience in Africa, India and Europe. In the department, he works on water and

sanitation projects in South East Europe both on lending and analytical products. Prior to joining the Bank, he worked as a Water Specialist in India for the Bank-managed Water and Sanitation Program; a Research Associate at Loughborough University; and a Project Manager and Engineer on water supply, sanitation and irrigation projects in South Africa. In the Bank, he worked briefly on land and water issues in Africa before moving to ECA.

*Current Work Program:* Operational and analytical work in South East Europe with a focus on Albania, Bulgaria, Croatia, Montenegro and Romania.

*Strengths:* Broad knowledge of the water sector; technical, institutional and economic analysis; public finance.

*Education:* M.PP. (Economics), Princeton; M.Sc. (Water and Waste Engineering), Loughborough; B.Sc. (Civil Engineering), Cape Town.

*Languages (other than English):* Afrikaans (fair).



**Mark WOODWARD**, *Senior Social Development Specialist*, joined the World Bank in January 1989, when he began to work at the Social Dimensions of Adjustment (SDA) Program in the Africa Region.

*Work experience:* Mr. Woodward worked for a decade in the Africa Region. He served as Poverty Coordinator in two different Departments and worked on issues of social development, participation, capacity building, and what was then called “war to peace transition”. In 1999, he joined the social development team in the Europe and Central Asia Region (ECA). Here his principle responsibility has been to build the operational capacity of the team by mentoring peers, supervising consultants, and

managing the preparation and supervision of operations. He has also coordinated programs in the areas of community-driven development and mobilizing cultural heritage in support of socioeconomic development.

*Current Work Program:* The bulk of the program is currently in Romania, where Mr. Woodward is Task Team Leader for a mine closure project and provides support for several other operations both in and outside the Sustainable Development Department and Azerbaijan, where he is Task Team Leader for the supervision of the Rural Investment Project.

*Strengths:* Social Development, including: community-driven development, local governance, cultural heritage, conflict prevention and reconstruction; operational skills; mentoring.

*Education:* Ph.D. (Political Science), Stanford University; M.A. (International Studies), Johns Hopkins School of Advanced International Studies; B.A. (International Relations), University of California at Davis.

*Languages (other than English):* French (fluent), Portuguese (advanced high), Spanish (rusty intermediate), Russian (intermediate medium), Tagalog (beginner).



**Wael ZAKOUT**, *Lead Operations Officer* joined the World Bank in 1994, in South Asia Region; in 1996 he joined East Asia Region where he led projects in rural water supply and sanitation, rural transport, natural resources management, social fund, land policy and administration and natural disasters

management. In 2004 he joined Europe and Central Asia Region where he focused his work on disaster preparedness and mitigation, and land policy and administration. Before joining the Bank, Mr. Zakout held several jobs including an Utility Information Management Specialist in

Wisconsin Power and Light Company, a GIS specialist in Wisconsin Department of Natural Resources, and a design engineer in Yazigi Consulting.

*Current Work Program:* Land policy; natural disaster preparedness and mitigation.

*Strengths:* Program and project design and supervision; land policy analysis; natural disasters response coordination,

*Education:* Ph.D. (Civil and Environmental Engineering), University of Wisconsin-Madison.

*Languages (other than English):* Arabic (native).



**Yan ZHANG**, *Urban Economist*, joined the Bank through the Young Professional Program in 2004. Yan is specialized in urban and regional economic development and sub-national public finance. In ECSSD, Yan has worked on analytical work on urban development in Albania, fiscal decentralization, subnational public financial management and service delivery in Bosnia and Herzegovina. Her operational experiences include Development Policy Lending on housing and communal services in Russia, Investment Lending on urban land management in Albania (with a focus on urban planning), and regional development in Kazakhstan and Bulgaria. Prior to joining ECSSD, she also worked on housing and social security reforms, metropolitan and city development strategies, and water and sanitation projects in the EAP region.

*Current Work Program:* Supervision of Tirana Regulatory Plan Project and Land Administration and Management Project in Albania; AAA on Service Delivery and Local Governance in Bosnia and Herzegovina; preparation of

Regional Development Project in Bulgaria and Regional/Territorial Development Project in Kazakhstan.

*Strengths:* Sub-national/regional economics; urban and regional development policy; housing policy and housing finance; public finance with a focus on intergovernmental fiscal relations and decentralization.

*Education:* Ph.D. (Public Policy), MIT; M.S. (Urban and Regional Planning), China Academy of Urban Planning and Design.

*Languages (other than English):* Chinese (native). French (beginner), Russian (beginner)

## RESOURCE MANAGEMENT TEAM



**Anne BOHON-FLANAGAN**  
*RM Lead*



**Tulia BELTRAN**  
*RMA*



**Lissa FOSTER**  
*RMA*



**Vijaya SUKUMARAN**  
*RMA*

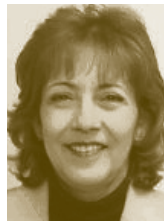


**Olgamarie VILLA**  
*RMA*

## ADMINISTRATIVE AND CLIENT SUPPORT TEAM



**Deepthi SHARMA**  
*Office Manager*



**Arlene TATE**  
*Office Manager*



**Lynette ALEMAR**  
*Senior Program Assistant*



**Coral BIRD**  
*Program Assistant*



**Irene BOMANI**  
*Senior Program Assistant*



**Redemcion CANLAS**  
*Program Assistant*



**Natalia CHEREVATOVA**  
*Program Assistant*



**Valencia COPELAND**  
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**Juderica DIAS**  
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**Eleanor DILA**  
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*Program Assistant*





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**Sharifa KALALA**  
*Program Assistant*



**Josephine KIDA**  
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**Marie LAYGO**  
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**Teresa LIM**  
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**Marina LYSIAKOVA**  
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**Larisa MARQUEZ**  
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**Beatrice Koshie MICHEL**  
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**Barbara MONDESTIN**  
*Executive Assistant*





**Beulah NOBLE**  
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**Milane REYES**  
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**Rohan SELVARATNAM**  
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**Kathy SHARROW**  
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**Tshering SHERPA**  
*Staff Assistant*



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**Guy TCHAKOUNTE TCHABO**  
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**Yukari TSUCHIYA**  
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**Sohaila WALI**  
*Program Assistant*



**May ZEKI**  
*Senior Program Assistant*