



Dasu Hydropower Stage I Project (P121507)

SOUTH ASIA | Pakistan | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 16 | ARCHIVED on 26-Oct-2022 | ISR53174 |

Implementing Agencies: Islamic Republic of Pakistan, National Transmission and Despatch Company, Water and Power Development Authority (WAPDA)

Key Dates**Key Project Dates**

Bank Approval Date: 10-Jun-2014

Effectiveness Date: 20-Nov-2014

Planned Mid Term Review Date: 16-Jan-2023

Actual Mid-Term Review Date:

Original Closing Date: 30-Jun-2022

Revised Closing Date: 31-May-2024

Guarantee Expiration Date: 30-Jun-2027

Guarantee Information

Coverage:	<input checked="" type="checkbox"/> Loan Guarantee <input type="checkbox"/> Payment guarantee
Type of Implementing entity:	Public
Guarantee beneficiary:	Water and Power Development Authority as borrower; and Credit Suisse as lender.
Includes Payment Guarantee	No
Guarantee fees:	UpFront
Are guarantee fees current?	
Guarantee fees payment due dates:	

Project Development Objective (PDO)

Project Development Objective (from Project Appraisal Document)

The overall project development objective is to facilitate the expansion of electricity supply of hydro-power in Pakistan. The Project would also improve access to socio-economic services for local communities in the project area and build WAPDA's capacity to prepare future hydropower projects. This would be achieved by installing a 2,160 MW hydropower plant on the main Indus River, which can be expanded to 4,320 MW in future at very low cost. The Project is a "high-risk-high reward" operation aimed at providing low cost non-carbon renewable energy.



Components Table

Name

Component A: Construction of the Main Hydraulic Structure on the Indus River (of which IDA \$10.0 million):(Cost \$1479.70 M)

Component B: Power Generation Facilities:(Cost \$1397.80 M)

Component C: Preparatory Works (of which IDA \$183.9 million):(Cost \$344.80 M)

Component D: Transmission Line (of which IDA \$15.0 million, IBRD \$700million):(Cost \$797.10 M)

Component E: Implementation of Social and Environmental Management Plans, and Glacial, Sediment River Monitoring (of which IDA \$266.5 million):(Cost \$503.90 M)

Component F: Construction Supervision, Monitoring and Evaluation of the Project Impacts and Social and Environmental Management Plans (of which IDA \$53.0 million):(Cost \$99.10 M)

Component G: Project Management Support, Capacity Building of WAPDA, Technical Assistance and Training (of which IDA \$60.0 million):(Cost \$72.40 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> High	<input type="checkbox"/> High

Implementation Status and Key Decisions

Dasu Hydropower Stage I (DHP-I) is a 2,160 Mega Watt (MW) run-of-river greenfield project located about 240 kilometer (km) upstream from Tarbela Dam on main River Indus. It will supply 12,225 Giga Watt hour annually and is part of a least-cost solution to mitigate power shortfall and reduce cost of generation in the country. The Project comprises of six generating units of 360 MW each as well as 250 km, 765 kilo Volt double circuit transmission line from Dasu to Islamabad. An International Development Association (IDA) credit in the amount of Special Drawing Rights (SDR) 379.7 million (US\$588.4 million equivalent) and an IDA Partial Credit Guarantee (PCG) in the amount of US\$460 million have been approved by the World Bank for DHP-I. The IDA credit funds are primarily being used for project supervision, implementation of social and environmental management plans, and preparatory works such as relocation of Karakoram Highway (KKH), access roads, offices and colonies. All key contracts for DHP-I are under implementation. Despite delays caused by land acquisition, COVID-19 pandemic, and terror attack in July 2021, the Project is expected to achieve its development objectives. National Transmission and Despatch Company has approved the bid evaluation for awarding the contracts for Dasu Transmission Line (DTL), which is financed by US\$700 million in International Bank of Reconstruction and Development (IBRD) Loan.

Guarantee Conditions Precedent

Description	Status

Risks

Systematic Operations Risk-rating Tool



Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	□ Substantial	□ Substantial
Macroeconomic	--	□ Substantial	□ Substantial
Sector Strategies and Policies	--	□ Substantial	□ Substantial
Technical Design of Project or Program	--	□ Substantial	□ Substantial
Institutional Capacity for Implementation and Sustainability	--	□ High	□ High
Fiduciary	--	□ Substantial	□ Substantial
Environment and Social	--	□ High	□ High
Stakeholders	--	□ Substantial	□ Substantial
Other	--	□ Substantial	□ Substantial
Overall	--	□ High	□ High

Results

PDO Indicators by Objectives / Outcomes

To facilitate the expansion of electricity supply of hydro-power in Pakistan				
▶ Generation Capacity of Hydropower constructed or rehabilitated under the project (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2,160.00
Date	14-Sep-2021	31-Jan-2022	26-Sep-2022	29-Dec-2023
Comments:	Generation capacity of DHP-I can be measured when project approaches commissioning.			
□ Generation Capacity of Hydropower constructed under the project (Megawatt, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2,160.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023
▶ Annual electricity supply renewable energy annually (Gigawatt-hour (GWh), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	12,000.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023
Comments:	Annual electricity supplied from DHP-I can be measured after the construction of the powerplant is complete.			



To improve access to socio-economic services for local communities in the project area				
► Number of additional people in the project area with improved socio-economic services (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	12,536.00	12,536.00	20,000.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023
Comments:	The first scheme under the Local Area Development Plan (LADP) has deployed solar lights in Kamila and Dasu Towns benefiting 5,037 of community members. The Public Health Action Plan (PHAP) team, supported by the Project, have conducted 6 of medical camps in the DHP-I area benefitting 7,449 of people. In total, 2,554 of children, 2,209 of men, and 2,736 of women have benefitted from medical camps carried out between Feb, 2017 to Oct, 2020.			

To build WAPDA's capacity to prepare future hydropower				
► Number of large hydropower project on the Indus River prepared by WAPDA (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023
Comments:	To date, WAPDA has not prepared other hydropower projects that can be attributed to support from this Project.			

Intermediate Results Indicators by Components

Component A: Construction of the Main Hydraulic Structure on the Indus River (of which IDA \$10.0 million)				
► Construction of main hydraulic structure (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	13.00	18.00	100.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	28-Mar-2025
Comments:	Overall progress of Main Work (MW) -1 contract.			
► Private/Commercial Capital Mobilized (cumulative figures in million) (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,234.00	1,234.00	2,450.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023
Comments:	US\$338 million plus upfront fee of US\$12 million was mobilized using IDA Partial Credit Guarantee from Credit Suisse. PKR 144 billion in loan was mobilized by consortium led by the Habib Bank Limited. The			



depreciation of Pakistani Rupees against the US Dollar changes the cumulative private capital mobilized, reported in US Dollar. The final figure on private capital mobilized can only be calculated after the loan in Pakistani Rupees is utilized.

Component B: Power Generation Facilities

► Construction of intake, waterways and power house (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.80	7.40	100.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	28-Mar-2025
Comments:	Overall progress of MW-2 contract.			

► Number of 360 MW power units installed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	30-Apr-2025

Component C: Preparatory Works (of which IDA \$183.9 million)

► Construction of RAR-01 KKH-01, TL-132 Power line, PC-01 colony (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	66.25	71.40	100.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023
Comments:	Right Bank Access Road (RAR-1) is almost complete (96 percent). The first tunnel of the relocated Karakorum Highway (KKH) is complete and overall progress of redesigned KKH-1 relocation is 31 percent. Progress of project colony is 50 percent; and progress of the 132 kilo-Volt (kV) transmission line is 88 percent.			

Component D: Transmission Line (of which IDA \$15.0 million)

► Double Circuit Transmission Line constructed (Kilometers, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	255.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	30-Sep-2024
Comments:	Procurement is ongoing for the Dasu Transmission Line (DTL).			

□ Transmission Line Constructed (Kilometers, Custom Breakdown)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	255.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	30-Sep-2024

Component E: Implementation of Social and Environmental Management Plans, and Glacial, Sediment River Monitoring (of which IDA \$266.5 million)

► Implementation of SRMP and EMP (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	25.00	45.00	100.00
Date	01-Apr-2014	31-Jan-2022	30-Sep-2022	29-Dec-2023

Comments: Calculated based on the implementation of major SRMP and EMP tasks.

► Percentage of agreed local development plan implemented (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	16.00	20.00	100.00
Date	01-Apr-2014	31-Jan-2022	30-Sep-2022	29-Dec-2023

Comments: Calculated based on progress in design, bidding, construction and completion of local area development schemes from various priority batches.

► Percentage of affected persons participating in consultations who consider their suggestions have been taken into account (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	15.00	25.00	40.00
Date	01-Apr-2014	31-Jan-2022	30-Sep-2022	29-Dec-2023

Comments: This has been calculated based on the consultative meetings conducted regarding resettlement site development, local areas development, and resolution of social issues during the project implementation.

► % of women using health facilities in project areas (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	40.00	42.00	15.00
Date	01-Apr-2014	31-Jan-2022	30-Sep-2022	29-Dec-2023

Comments: Based on consultation with women village committees in 16 villages and the record of the seven medical camps conducted since 2017.

► Percentage of women engaged in income generated activities in the project area (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
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Value	15.00	30.00	30.00	20.00
Date	01-Apr-2014	31-Jan-2022	30-Sep-2022	29-Dec-2023
Comments:	Based on consultation with women village committees in 16 villages.			
► Percentage of grievances redressed/resolved (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	85.00	90.00	70.00
Date	01-Apr-2014	31-Jan-2022	30-Sep-2022	29-Dec-2023
► Number of training and awareness sessions on codes of conduct (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	48.00	60.00	2.00
Date	28-Feb-2020	31-Jan-2022	30-Sep-2022	30-Jun-2022
Comments:	This is number of sessions conducted after approval of Code of Conduct (CoCs).			




Component G: Project Management Support, Capacity Building of WAPDA, Technical Assistance and Training (of which IDA \$60.0 million)				
► Hydropower Project with detailed design, environmental and social safeguards studies completed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023
► Capacity Building of WAPDA (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3.00	3.00	100.00
Date	01-Apr-2014	31-Jan-2022	26-Sep-2022	29-Dec-2023

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)



Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P121507	IBRD-90760	Effective	USD	700.00	700.00	0.00	3.95	696.05	 0.6%
P121507	IDA-54970	Effective	USD	190.30	190.30	0.00	0.00	161.94	 0%
P121507	IDA-54980	Effective	USD	398.10	398.10	0.00	315.32	38.69	 89%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P121507	IBRD-90760	Effective	31-Mar-2020	15-Oct-2020	30-Jun-2021	31-May-2024	31-May-2024
P121507	IDA-54970	Effective	10-Jun-2014	25-Aug-2014	20-Nov-2014	30-Jun-2022	31-May-2024
P121507	IDA-54980	Effective	10-Jun-2014	25-Aug-2014	20-Nov-2014	30-Jun-2022	31-May-2024

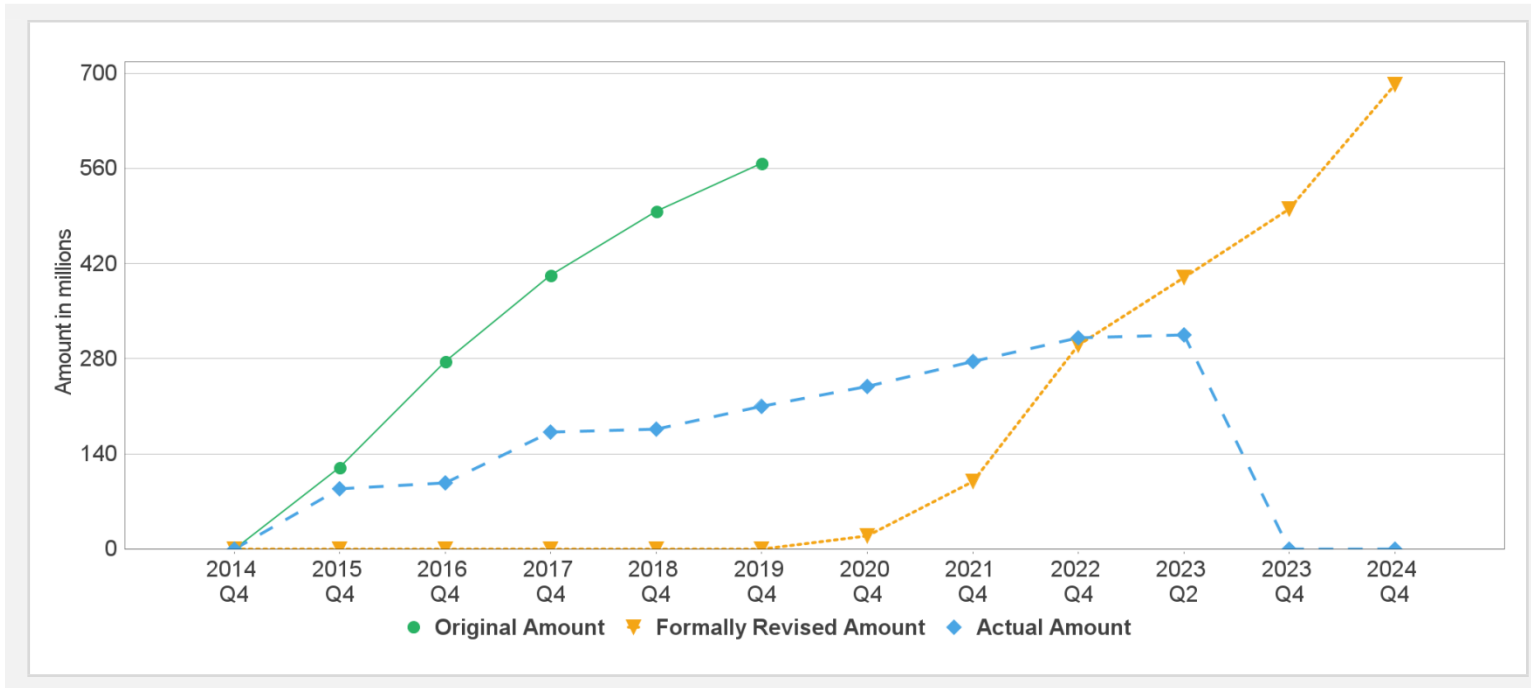
Guarantee Amount

Project	Guarantee No.	Status	Currency	Original	Revised	Cancelled	Current Amount
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Guarantee Dates

Project	Guarantee No.	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Guarantee Expiration Date	Rev. Guarantee Expiration Date
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Cumulative Disbursements



Restructuring History

Level 2 Approved on 14-Oct-2016 ,Level 2 Approved on 17-Nov-2017 ,Level 2 Approved on 22-Nov-2018 ,Level 2 Approved on 20-Nov-2019 ,Level 2 Approved on 17-Jun-2021 ,Level 2 Approved on 16-Aug-2021 ,Level 2 Approved on 29-Jun-2022

Related Project(s)

P150756-IDA Partial Credit Guarantee for Dasu Hydropower Phase-I Project ,P167843-Additional Financing For Dasu Hydropower Stage I Project (Transmission Line)