



Turkey Energy Efficiency in Public Buildings (P162762)

EUROPE AND CENTRAL ASIA | Turkiye | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2020 | Seq No: 6 | ARCHIVED on 18-Jun-2022 | ISR51911 |

Implementing Agencies: Ministry of Energy and Natural Resources, Ministry of Environment and Urbanization, General Directorate of Construction Works, Republic of Turkey

Key Dates

Key Project Dates

Bank Approval Date: 05-Nov-2019

Effectiveness Date: 16-Mar-2020

Planned Mid Term Review Date: 05-Dec-2022

Actual Mid-Term Review Date:

Original Closing Date: 31-Dec-2025

Revised Closing Date: 31-Dec-2025

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objectives are to reduce energy use in central government buildings and inform the development of sustainable financing mechanisms to support a scaled-up, national program for energy efficiency in public buildings.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

1. Energy efficiency investments in central government buildings:(Cost \$196.20 M)
2. Technical assistance and implementation support:(Cost \$3.80 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"/> Satisfactory	<input type="checkbox"/> Satisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Implementation Status and Key Decisions

The Project progress continues to be rated as Satisfactory. Cumulative disbursements are US\$19.2 million. Renovation works under Package 1 is largely completed (14 buildings completed, another 16 to be completed by end June) and renovation works tendering for Package 2 (120 buildings) is almost prepared. Preparations for Packages 3 (84 buildings) and 4 (65 buildings), and plans to conduct one additional package (Package 5) in order to commit the full Project resources are in progress.



Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Reduce energy use in central government buildings				
▶ Projected energy or fuel savings (Mega Joules (MJ), Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	22,680,000,000.00
Date	11-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
☐ Projected lifetime energy savings (Mega Joules (MJ), Corporate Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	22,680,000,000.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Develop sustainable financing mechanisms				
▶ Design and submission for approval of sustainable financing mechanisms to support a national program for energy efficiency in public buildings (Text, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No sustainable financing mechanisms in place	No sustainable financing mechanisms in place	No sustainable financing mechanisms in place	Sustainable financing mechanisms endorsed by MENR submitted to the Government for approval.
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Development and design of suitable sustainable financing mechanisms, which will be included in a national program for energy efficiency in public buildings. Sustainable financing mechanisms refer to schemes where the energy cost savings are repaid to the financier to recover the full investment cost, thus establishing a sustainable source of financing. These schemes need to be endorsed by MENR and submitted to the Government for approval.			

Intermediate Results Indicators by Components

Energy efficiency investments in central government buildings				
▶ Projected lifetime emissions reductions as a result of the energy savings (Metric ton, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4,500,000.00
Date	08-Jul-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	The total lifetime (over 20 years) avoided CO2 emissions equivalent from EE and RE investments made under the project, using the grid emissions factor in Turkey for electricity and carbon content for other fuels saved (e.g., heavy fuel oil, coal, gas).			
▶ Annual energy savings (Gigawatt-hour (GWh), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	4.42	315.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Annual energy savings from buildings renovated.			
▶ Annual emissions reductions (CO2) (Tons/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	225,000.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Annual CO2 emission reductions from EE and RE measures in buildings renovated			
▶ Number of buildings commissioned (Number, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	14.00	620.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Number of individual buildings renovated under the project			
► Annual energy costs savings (Amount(USD), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	18,000,000.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	This indicator projects the annual budgetary savings (in USD) as a result of energy savings resulting from EE investments made under the project.			
► Generation capacity of energy constructed or rehabilitated (Megawatt, Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	1.19	14.40
Date	11-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
□ Renewable energy generation capacity (other than hydropower) constructed under the project (Megawatt, Corporate Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	1.19	14.40
Date	11-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
► Number of ESCO contracts signed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	45.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Number of energy performance contracts signed			
► Number of pilot NZEBs implemented (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025



Comments:	Number of pilot Near-zero Energy Buildings renovated under the project with energy consumption less than 20kWh per square meter.			
► Number of beneficiaries in renovated buildings (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	59,700.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Number of beneficiaries (including users and employees) in renovated buildings			
<input type="checkbox"/> Percentage of females (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	45.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
► Number of people trained (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	215.00	362.00	500.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Number of people trained under the Project (including in technical trainings on energy audits, technical designs, and construction supervision), including PIU staff.			
<input type="checkbox"/> Number of female participants (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	39.00	88.00	150.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
► Number of females that participate in technical trainings organized by the PIU on energy audits, technical designs, and construction supervision (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	27.00	55.00	100.00
Date	08-Jul-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Number of females trained in technical trainings focusing on energy audits, technical designs, and construction supervision			
► Percentage of women in energy audit and design/construction supervision firms contracted under Project who are key staff (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	31.70	36.86	28.00
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Female key staff (i.e., nonadministrative positions) as a percentage of total number of key staff hired under the Project in audit and design/construction supervision companies.			

Technical assistance and implementation support

► Completion of policy analyses and development of recommendations to support the transition to sustainable financing in public buildings (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No analysis of policy and regulatory barriers for national program	No analysis of policy and regulatory barriers for national program	No analysis of policy and regulatory barriers for national program	Regulatory mechanisms adopted
Date	29-Apr-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Completion of policy analyses and development of recommendations to support the transition to sustainable financing in public buildings			

► Development of a national program for energy efficiency in public buildings with sustainable financing and institutional mechanisms (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No national program or plans in place	No national program or plans in place	No national program or plans in place	National program plan submitted for adoption
Date	08-Jul-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025

► Percentage satisfaction with the renovation processes, including consultations, and results (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	90.00
Date	22-Jul-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Percentage of beneficiaries surveyed within the renovated buildings under the Project satisfied with the renovation processes, including consultations, and results of the renovation.			

□ Percentage of females (Percentage, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	50.00
Date	22-Jul-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025

► Percentage of buildings with active and functioning user committees (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	90.00



Date	22-Jul-2019	10-Dec-2021	09-Jun-2022	31-Dec-2025
Comments:	Percentage of buildings renovated under the Project with active and functioning user committees. 'Active' and 'functioning' would be determined based on evidence of committee meetings with minutes, issuance of implementation score cards, etc.			

Performance-Based Conditions

Data on Financial Performance

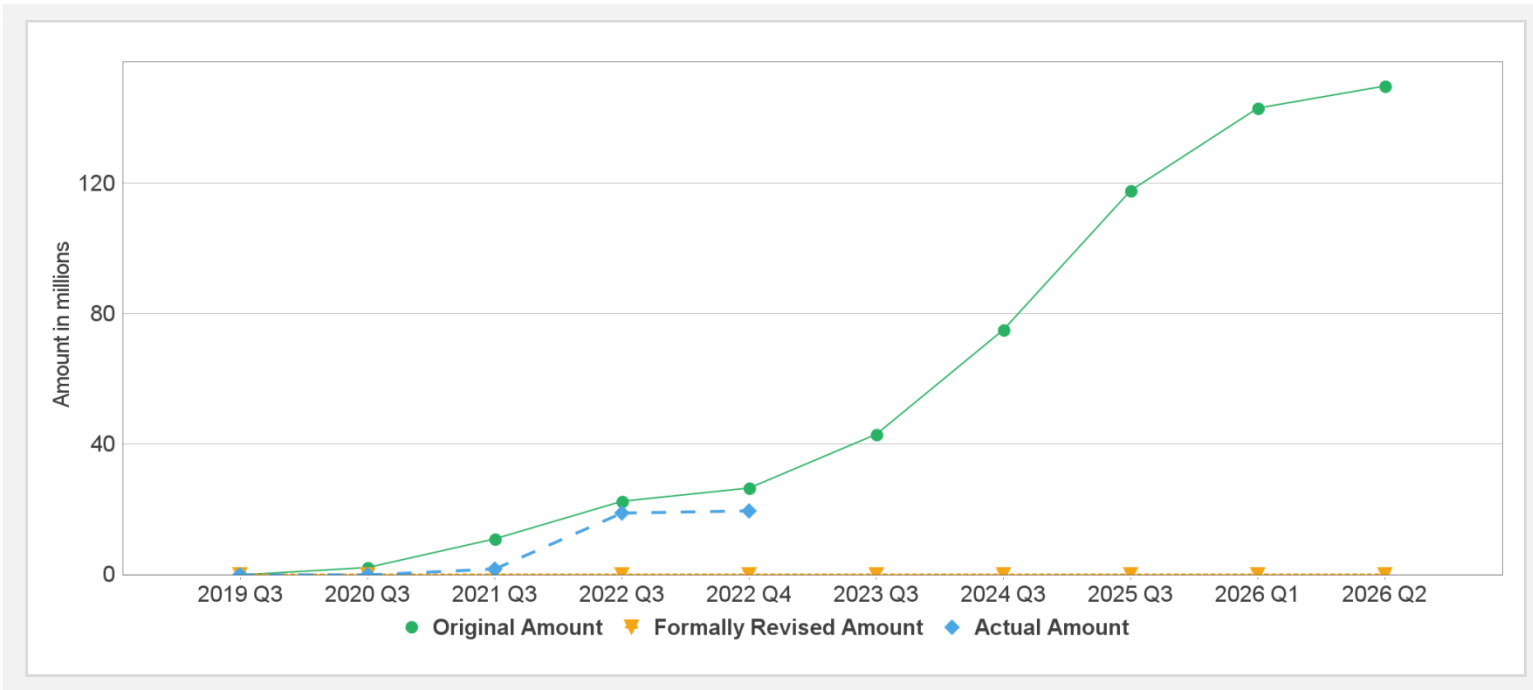
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P162762	IBRD-90150	Effective	USD	150.00	150.00	0.00	17.24	133.48	11%
P162762	TF-B0782	Effective	USD	46.20	46.20	0.00	0.55	45.65	1.2%
P162762	TF-B0853	Effective	USD	3.80	3.80	0.00	1.67	2.13	44%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P162762	IBRD-90150	Effective	05-Nov-2019	12-Dec-2019	16-Mar-2020	31-Dec-2025	31-Dec-2025
P162762	TF-B0782	Effective	05-Nov-2019	12-Dec-2019	16-Mar-2020	31-Dec-2025	31-Dec-2025
P162762	TF-B0853	Effective	05-Nov-2019	12-Dec-2019	16-Mar-2020	31-Dec-2025	31-Dec-2025

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

P175638-Energy Efficiency in Public Buildings