



Renewable Energy Integration (P144534)

EUROPE AND CENTRAL ASIA | Turkey | Energy and Mining Global Practice |
IBRD/IDA | Specific Investment Loan | FY 2014 | Seq No: 1 | ARCHIVED on 31-Dec-2014 | ISR16377 |

Implementing Agencies: TEIAS- Turkish Electricity Transmission Company

Key Dates

Key Project Dates

Board Approval date:09-May-2014

Effectiveness Date:11-Aug-2014

Planned Mid Term Review Date:--

Actual Mid-Term Review Date:03-Nov-2014

Original Closing Date:30-Jun-2019

Revised Closing Date:30-Jun-2019

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The PDO is "To assist Turkey in meeting its increased power demand by strengthening the transmission system and facilitating large-scale renewable energy generation".

The GEO is "To avoid Green House Gas (GHG) emissions from fossil fuel based power through greater integration of renewable energy sources based generation in Turkey".

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

No

Components

Name

Component-1: Upfront development of transmission infrastructure to facilitate faster development of WPPs:(Cost \$59.00 M)

Component-2: Smart-grid investments to strengthen grid operation and management in face of higher wind energy generation:(Cost \$68.00 M)

Component-3: Lapseki-Sutluce 380 kV Submarine Power Cable to better inter-connect wind energy locations with other parts of Turkey:(Cost \$79.20 M)

Component-4: Strengthening of Transmission Networks to cater to growing demand and supply of electricity in Turkey:(Cost \$206.80 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	--	● Satisfactory
Overall Implementation Progress (IP)	--	● Satisfactory



Overall Risk Rating

--

● Moderate

Implementation Status and Key Decisions

The project became effective in August 2014 and is still in too early a stage for meaningful progress.

Risks

Systematic Operations Risk-rating Tool

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

Results

Project Development Objective Indicators

► Installed wind energy capacity in Turkey (Megawatt, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2700.00	--	3500.00	6104.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018



► Wind energy generation in Turkey (Gigawatt-hour (GWh), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	7.81	--	7.81	17.65
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

► Peak load handled by the transmission system in Turkey (Gigawatt, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	38.00	--	38.00	48.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

► GHG emissions avoided annually through wind power plants connected to substations funded under the project (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	690000.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

Overall Comments

Intermediate Results Indicators

► Wind energy capacity connected to sub-stations funded under the project (Megawatt, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	600.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018



▶ Wind energy generated from plants connected to sub-stations funded under the project (Gigawatt-hour (GWh), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	1734.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

▶ Energy transferred over the 2nd Lepsuki-Sutluce submarine power cable (Gigawatt-hour (GWh), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	4900.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

▶ Transmission lines constructed or rehabilitated under the project (Kilometers, Core)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	52.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

▲ Transmission lines constructed under the project (Kilometers, Core Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	52.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018



► Transformation capacity added under the project (Kilovolt-Ampere(KVA), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	4500000.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

► Proportion of TEIAS sub-stations that are equipped with RTUs (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	33.00	--	33.00	80.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

► Renewable Energy Resource (RER) operator desk is functional (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	--	N	Y
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

► CTF co-financing delivered (including IBRD, TEIAS and Private WPP investment) (Amount(USD), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	--	0.00	1026000000.00
Date	31-Dec-2013	--	31-Oct-2014	31-Dec-2018

Overall Comments

Data on Financial Performance



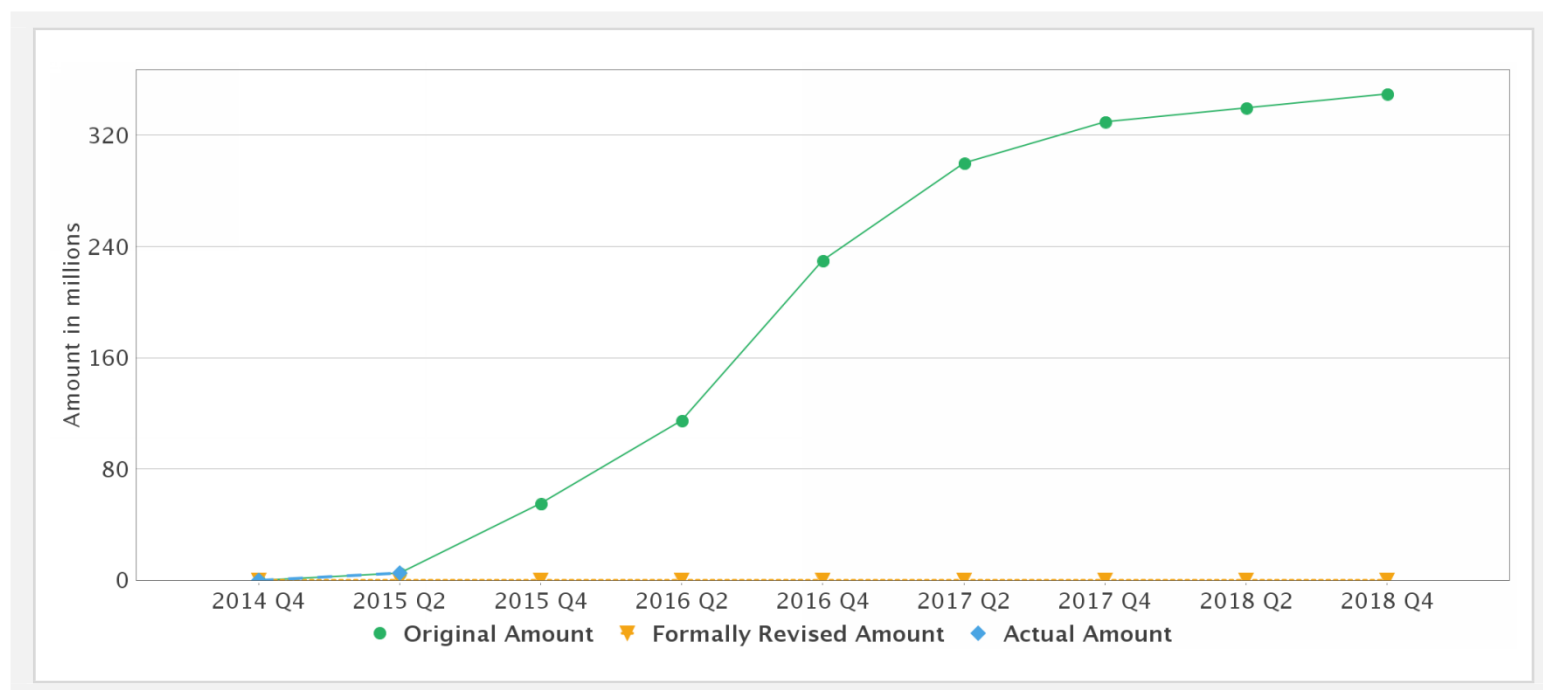
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P144534	IBRD-83710	Effective	USD	300.00	300.00	0.00	5.02	294.43	2%
P144534	TF-16958	Effective	USD	50.00	50.00	0.00	0.00	50.00	0%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P144534	IBRD-83710	Effective	09-May-2014	10-Jul-2014	11-Aug-2014	30-Jun-2019	30-Jun-2019
P144534	TF-16958	Effective	09-May-2014	10-Jul-2014	11-Aug-2014	30-Jun-2019	30-Jun-2019

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)



There are no related projects.
