

## Turkey Irrigation Modernization (P158418)

EUROPE AND CENTRAL ASIA | Turkiye | Water Global Practice | IBRD/IDA | Investment Project Financing | FY 2019 | Seq No: 7 | ARCHIVED on 16-Jun-2022 | ISR50972 |

Implementing Agencies: Devlet Su İşleri (DSI), Republic of Turkey

#### **Key Dates**

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Bank Approval Date: 22-Jan-2019	Effectiveness Date: 30-May-2019
Planned Mid Term Review Date: 31-Aug-2022	Actual Mid-Term Review Date:
Original Closing Date: 27-Feb-2026	Revised Closing Date: 27-Feb-2026

#### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The objective of the project is to improve irrigation delivery, through rehabilitation and modernization of distribution infrastructure in selected schemes, and through strengthening of capacity of WUAs.

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

#### **Components** Table

Name

No

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Component 1. Irrigation System Modernization:(Cost \$249.00 M)

Component 2. Innovation and Institutional Support:(Cost \$2.00 M)

Component 3. Project Management:(Cost \$3.00 M)

## **Overall Ratings**

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	Satisfactory	Satisfactory
Overall Implementation Progress (IP)	Moderately Satisfactory	Moderately Satisfactory
Overall Risk Rating	Moderate	Moderate

## Implementation Status and Key Decisions

The project is in its third year of implementation and is expected to last for an additional four years until the official closing date of February 27, 2026. The implementation progress to date is *Moderately Satisfactory*. Construction work at Eregli-Ivriz and Uzunlu irrigation schemes is progressing well. However, works implementation at Atabey and Alasehir irrigation schemes is slower than planned.

The activities under Component 2 "Innovation and Institutional Support" are progressing satisfactorily. The contracts for the SUTEM

software development and for Bolvadin, Afyon solar-powered groundwater pilot have been signed and implementation is in progress. All of these activities are expected to be completed by January, 2023.

There was some budget saving due to the lower actual contract values for the four contracted irrigation schemes than planned, part of which will be used for rehabilitation of Asfar dam. The overall disbursement level is about 14.8%, which is expected to pick-up during the first and





second quarters of Fiscal Year 2023. The overall works implementation progress rate is 16.2% and the progress towards achievement of PDO is *Satisfactory*. The project is compliant with all relevant environmental and social safeguards policies and procedures.

#### Risks

# Systematic Operations Risk-rating Tool

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

## Results

### PDO Indicators by Objectives / Outcomes

Improve irrigation service delivery in selected schemes in Turkey							
► Area provided with new/improved irrigation or drainage services (Hectare(Ha), Corporate)							
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	0.00	1,750.00	50,764.00			
Date	22-Jan-2019	22-Jan-2019 11-May-2021 31-May-2022 27-Feb-2026					
Comments: This indicator measures the total area of land provided with irrigation and drainage services under the project, including in (i) the area provided with new irrigation and drainage services, and (ii) the area provided with improved irrigation and drainage services, expressed in hectare (ha).							
□Area provided with new irrigation or drainage services (Hectare(Ha), Corporate Breakdown)							
	Baseline	Actual (Previous)	Actual (Current)	End Target			
Value	0.00	0.00	0.00	0.00			



Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
□Area provided with	n improved irrigation or drainage	services (Hectare(Ha), Corpora	ate Breakdown)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	1,750.00	50,764.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
► Water users provide	ed with improved irrigation servic	e (Number, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	369.00	17,312.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
Comments:		umber of farmers receiving pres rities financed by the project.	ssurized irrigation water deli	very through the
□Female water user	rs provided with improved irrigati	, · · ·		
Malaa	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	124.00	519.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
Increase in irrigation	n efficiency (Percentage, Custon	1)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	15.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
Comments:		crease in irrigation efficiency re efficiency increase, in absolute		
Strengthen the institution	onal capacity of Water User Ass	ociations		
Water User Associa	tions (WUAs) regularly reporting	) on water use data (Number, C	custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	378.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
Comments:	This refers to the net the SUTEM MIS	umber of WUAs which are activ	vely collecting and uploading	g water management data i

## Intermediate Results Indicators by Components

Length of moderniz	ed irrigation network (Kilometers	, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	0.00	115.00	1,521.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
Comments:	This refers to the le project.	ength of primary, secondary and	I tertiary pressurized irrigation	on network financed by the
Annual WUA consu	Itations conducted and results di	scussed via DSI's communicati	ion channels (Number, Cust	om)
	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	12.00	70.00	245.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
□Annual WUA cons		ct 7 consultations per year with onsultations, will be shared with with women (Number, Custom B Actual (Previous)	the water users via DSI's c	
Value	0.00	0.00	0.00	35.00
Date	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
Custom Breakdown	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	90.00
	22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026
Date		meframe (Percentage, Custom)	)	
	es addressed within stipulated ti			
	es addressed within stipulated ti Baseline	Actual (Previous)	Actual (Current)	End Target
		Actual (Previous) 0.00	Actual (Current) 96.15	End Target 80.00

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Component 2: Innovation and Institutional Support

► WUAs trained in the use of SUTEM MIS (Number, Custom)



Baseline	Actual (Previous)	Actual (Current)	End Target		
0.00	0.00	0.00	378.00		
22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026		
This refers to the number of WUAs which have received the equipment and trainings neede SUTEM MIS.			ngs needed for using the		
ed for Bolvadin irrigation (Pe	rcentage, Custom)				
Baseline	Actual (Previous)	Actual (Current)	End Target		
0.00	0.00	0.00	69.00		
22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026		
hdrawal by Bolvadin Coopera	ative (Percentage, Custom)				
Baseline	Actual (Previous)	Actual (Current)	End Target		
0.00	0.00	0.00	16.00		
22-Jan-2019	11-May-2021	31-May-2022	27-Feb-2026		
This indicator monitors the reduction in groundwater withdrawal by the Bolvadin Cooperative.					
	0.00 22-Jan-2019 This refers to the number SUTEM MIS. ed for Bolvadin irrigation (Pe Baseline 0.00 22-Jan-2019 This refers to the share of being used to cover the el hdrawal by Bolvadin Cooper Baseline 0.00 22-Jan-2019	0.000.0022-Jan-201911-May-2021This refers to the number of WUAs which have receive SUTEM MIS.WUAs which have receive sutemation (Percentage, Custom)BaselineActual (Previous)0.000.0022-Jan-201911-May-2021This refers to the share of solar energy generated for in being used to cover the electricity needs for the operationHorawal by Bolvadin Cooperative (Percentage, Custom)BaselineActual (Previous)0.000.0022-Jan-201911-May-2021	0.000.000.0022-Jan-201911-May-202131-May-2022This refers to the number of WUAs which have received the equipment and training SUTEM MIS.ed for Bolvadin irrigation (Percentage, Custom)BaselineActual (Previous)Actual (Current)0.000.000.0022-Jan-201911-May-202131-May-2022This refers to the share of solar energy generated for irrigation in Bolvadin Groun being used to cover the electricity needs for the operation of the irrigation systemhdrawal by Bolvadin Cooperative (Percentage, Custom)Actual (Current)0.000.000.0022-Jan-201911-May-2021Actual (Current)baselineActual (Previous)Actual (Current)0.000.000.0022-Jan-201911-May-202131-May-2022		

## **Performance-Based Conditions**

## **Data on Financial Performance**

# **Disbursements (by loan)**

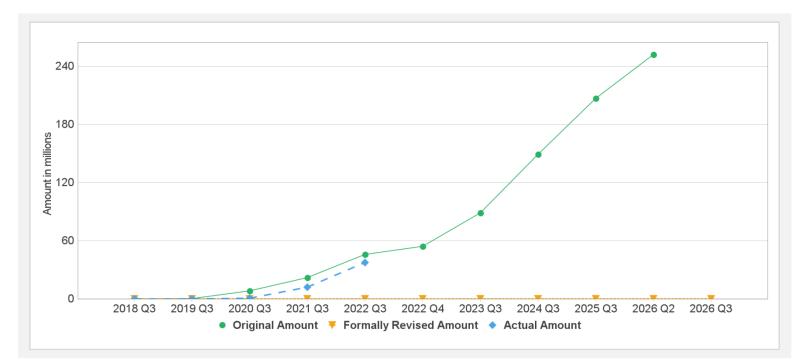
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% E	Disbursed
P158418	IBRD-89190	Effective	USD	252.00	252.00	0.00	36.46	215.16		14%
P158418	TF-A9363	Closed	USD	2.00	0.00	2.00	0.00	0.00		0%
P167363	TF-B0863	Effective	USD	2.00	2.00	0.00	0.98	1.02		49%
Key Dates	(by loan)									
Project	Loan/Credit/TF	Status	Approval Date	e Signi	ng Date	Effectiveness D	ate Orig. C	Closing Date	Rev. Closing	Date
P158418	IBRD-89190	Effective	22-Jan-2019	15-Fe	eb-2019	30-May-2019	27-Fet	o-2026	27-Feb-2026	
P158418	TF-A9363	Closed	04-Feb-2019	04-Fe	eb-2019	30-May-2019	27-Feb	o-2026	03-Jul-2019	



# The World Bank Turkey Irrigation Modernization (P158418)

P167363	TF-B0863	Effective	04-Feb-2019	04-Feb-2019	30-May-2019	27-Feb-2026	27-Feb-2026

### **Cumulative Disbursements**



# **Restructuring History**

There has been no restructuring to date.

# Related Project(s)

P167363-GEF Turkey Irrigation Modernization