

Turkiye Irrigation Modernization (P158418)

EUROPE AND CENTRAL ASIA | Turkiye | Water Global Practice | IBRD/IDA | Investment Project Financing | FY 2019 | Seg No: 8 | ARCHIVED on 03-Jan-2023 | ISR53999 |

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

Key Dates

Key Project Dates

Bank Approval Date: 22-Jan-2019 Effectiveness Date: 30-May-2019

Planned Mid Term Review Date: 22-Aug-2022 Actual Mid-Term Review Date: 24-Oct-2022

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?

No

Components Table

Name

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	□Moderately Satisfactory
Overall Implementation Progress (IP)	□Moderately Satisfactory	□Moderately Unsatisfactory
Overall Risk Rating	□Moderate	□Moderate

Implementation Status and Key Decisions

The project is in its fourth year of implementation and is expected to last for an additional three years until the official closing date of February 27, 2026. The Project aims to improve irrigation delivery through rehabilitation and modernization of selected irrigation schemes under Component 1 and strengthening capacity of Water User Associations (WUAs) under Component 2. Component 1 includes rehabilitation and modernization of four irrigation schemes, namely: Alasehir irrigation scheme in Manisa, Atabey irrigation scheme in Isparta, Eregli-Ivriz left bank irrigation scheme in Konya, and Uzunlu irrigation scheme in Yozgat. The project activities under Component 2 includes (i) piloting a solar energy-based pumping of groundwater for irrigation of the existing irrigation scheme in Bolvadin and (ii) supporting DSI for implementation of the nationwide program (i.e. management information system known as SUTEM) to improve WUAs' capacity for water management.

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The loan and grant funds were earmarked for the works at five irrigation schemes. All five contracts were signed by December 2020. However, commencement of works was delayed due to the launch of court cases by some of the bidders which were subsequently resolved. Due to lower bids and price adjustments, the total signed contract value was only US\$196 million (including VAT) resulting in about \$54 million savings. Some of those savings will be allocated for rehabilitation of the Afsar Dam, which is a water source for Alasehir Irrigation scheme. As of November 2022, total disbursement against the five work contracts is US\$49.5 million or Euro 45.5 million (20% of the loan and grant funds). It is projected to reach US\$76 million by end of FY23 and US\$122 million by end of calendar year 2023, which is more than double the current disbursement level. However, the overall uptick in disbursement during 2021 and 2022 masks differences in implementation progress among the five irrigation schemes. Construction work at Eregli-Ivriz and Uzunlu irrigation schemes is progressing well. However, progress at Atabey, Alasehir, and Bolvadin irrigation schemes is slower than planned due to issues with the contractors. The three non-performing contracts constitute 47% of the total work contracts, while their current disbursement level is only about 4.5% of the total signed works contract values.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	Moderate	Substantial	Substantial
Macroeconomic	□Moderate	Substantial	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		Low	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	1,750.00	9,560.00	50,764.00				
Date 22-Jan-2019 31-May-2022 20-Dec-2022 27-Feb-2026								
Comments:	project, including in	ures the total area of land provi (i) the area provided with new in yed irrigation and drainage serv	rrigation and drainage serv	ices, and (ii) the area				

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	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	0.00	0.00	0.00	
Date	22-Jan-2019	9 31-May-2022 20-Dec-2022		27-Feb-2026	
□Area provided with	n improved irrigation or drainage	services (Hectare(Ha), Corpor	ate Breakdown)		
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	1,750.00	9,560.00	50,764.00	
Date	22-Jan-2019	31-May-2022	20-Dec-2022	27-Feb-2026	
►Water users provide	ed with improved irrigation service	e (Number, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target	
/alue	0.00	369.00	369.00	17,312.00	
Date	22-Jan-2019	31-May-2022	20-Dec-2022	27-Feb-2026	
Comments:	This refers to the none modernization active	umber of farmers receiving pre rities financed by the project.	ssurized irrigation water deli	very through the	
□Female water use	rs provided with improved irrigati	on service (Number, Custom E	Breakdown)		
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	124.00	124.00	519.00	
	22-Jan-2019	31-May-2022	20-Dec-2022	27-Feb-2026	
Date					
	n efficiency (Percentage, Custom	1)			
	n efficiency (Percentage, Custon Baseline	Actual (Previous)	Actual (Current)	End Target	
►Increase in irrigation			Actual (Current) 0.00	End Target	
	Baseline	Actual (Previous)	,		

Strengthen the institutional capacity of Water User Associations.									
►Water User Associations (WUAs) regularly reporting on water use data (Number, Custom)									
	Baseline Actual (Previous) Actual (Current) End Target								
Value	Value 0.00 0.00 0.00 378.00								
Date 22-Jan-2019 31-May-2022 20-Dec-2022 27-Feb-2026									

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Comments:

This refers to the number of WUAs which are actively collecting and uploading water management data in the SUTEM MIS

Intermediate Results Indicators by Components

►I enath of modernize	ed irrigation network (Kilometers	Custom)		
Longin of modernize	ed inigation network (raiometero	, odotom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	115.00	355.10	1,521.00
Date	22-Jan-2019	31-May-2022	20-Dec-2022	27-Feb-2026
Comments:	This refers to the le project.	ength of primary, secondary and	tertiary pressurized irrigation	on network financed by th
►Annual WUA consu	Itations conducted and results di	scussed via DSI's communicati	on channels (Number, Cust	tom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	70.00	102.00	245.00
Date	22-Jan-2019	31-May-2022	20-Dec-2023	27-Feb-2026
Comments:	period as well as du	ormal consultations with WUAs uring the implementation period	. The four selected scheme	s correspond to 5 WUAs
	including women co	ct 7 consultations per year with onsultations, will be shared with	the water users via DSI's o	
		onsultations, will be shared with with women (Number, Custom I	the water users via DSI's o	ommunication channels.
	including women could women could with a specifically conducted with a specifical with a specifi	onsultations, will be shared with	the water users via DSI's o	
□Annual WUA cons	including women co ultations specifically conducted v Baseline	onsultations, will be shared with with women (Number, Custom I Actual (Previous)	the water users via DSI's conservation of the water via DSI's cons	emmunication channels. End Target
□Annual WUA cons Value Date	including women consultations specifically conducted values and a specifically conducted values are specifically conducted values and a specifically conducted values are specifically conducted values and a specifically conducted values are specifically conducted values and a specifically conducted values are specifically conducted value	onsultations, will be shared with with women (Number, Custom FActual (Previous) 0.00 31-May-2022	the water users via DSI's conservation of the water via DSI'	End Target 35.00 27-Feb-2026
□Annual WUA cons Value Date □Percentage of wor	including women consultations specifically conducted with the specifically conducted with the specific all years and the specific all years are specifically conducted with the specific all years are specific all years are specific all years are specific all years are specifically are specific all years are specific all years are specific all years are specifically all years are specific all yea	onsultations, will be shared with with women (Number, Custom In Actual (Previous) 0.00 31-May-2022 reporting increased awareness	the water users via DSI's of Breakdown) Actual (Current) 10.00 20-Dec-2023 of WUA's activities and pro-	End Target 35.00 27-Feb-2026 Dject investments (Number
□Annual WUA cons Value Date □Percentage of wor Custom Breakdown)	including women could be a seline 0.00 22-Jan-2019 men participants in consultations be asseline	onsultations, will be shared with with women (Number, Custom In Actual (Previous) 0.00 31-May-2022 reporting increased awareness Actual (Previous)	the water users via DSI's of Breakdown) Actual (Current) 10.00 20-Dec-2023 of WUA's activities and production of WUA's activities and production of WUA's actual (Current)	End Target 35.00 27-Feb-2026 Dject investments (Number
□Annual WUA cons Value Date □Percentage of wor Custom Breakdown) Value Date	including women could be a seline 0.00 22-Jan-2019 men participants in consultations Baseline 0.00	onsultations, will be shared with with women (Number, Custom In Actual (Previous) 0.00 31-May-2022 reporting increased awareness Actual (Previous) 0.00 31-May-2022	the water users via DSI's of Breakdown) Actual (Current) 10.00 20-Dec-2023 of WUA's activities and product (Current) 9.80 20-Dec-2022	End Target 35.00 27-Feb-2026 Dject investments (Number End Target) 90.00
□Annual WUA cons Value Date □Percentage of wor Custom Breakdown) Value Date	including women coultations specifically conducted was eline 0.00 22-Jan-2019 men participants in consultations Baseline 0.00 22-Jan-2019	onsultations, will be shared with with women (Number, Custom In Actual (Previous) 0.00 31-May-2022 reporting increased awareness Actual (Previous) 0.00 31-May-2022	the water users via DSI's of Breakdown) Actual (Current) 10.00 20-Dec-2023 of WUA's activities and product (Current) 9.80 20-Dec-2022	End Target 35.00 27-Feb-2026 Dject investments (Number End Target) 90.00
□Annual WUA cons Value Date □Percentage of wor Custom Breakdown) Value Date	including women coultations specifically conducted to Baseline 0.00 22-Jan-2019 men participants in consultations Baseline 0.00 22-Jan-2019 es addressed within stipulated times	onsultations, will be shared with with women (Number, Custom In Actual (Previous) 0.00 31-May-2022 reporting increased awareness Actual (Previous) 0.00 31-May-2022 meframe (Percentage, Custom)	the water users via DSI's of Breakdown) Actual (Current) 10.00 20-Dec-2023 of WUA's activities and pro Actual (Current) 9.80 20-Dec-2022	End Target 35.00 27-Feb-2026 Dject investments (Number End Target 90.00 27-Feb-2026

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Comments:	Baseline data will be determined by DSI and then the annual progress will be entered accordingly. The
Comments.	indicator refers to grievances addressed within stipulated timeframes(tbc)/total number of grievances filed.

Component 2: Innovation	on and Institutional Support							
►WUAs trained in the	use of SUTEM MIS (Number, C	ustom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	0.00	0.00	378.00				
Date	22-Jan-2019	31-May-2022	20-Dec-2022	27-Feb-2026				
Comments:	This refers to the nu SUTEM MIS.	This refers to the number of WUAs which have received the equipment and trainings needed for using the SUTEM MIS.						
► Share of renewable e	energy used for Bolvadin irrigation	on (Percentage, Custom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	0.00	0.00	69.00				
Date	22-Jan-2019	31-May-2022	20-Dec-2022	27-Feb-2026				
Comments:		are of solar energy generated for the electricity needs for the op-						
► Reduction in Ground	water Withdrawal by Bolvadin C	cooperative (Percentage, Custo	m)					
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	0.00	0.00	16.00				
Date	22-Jan-2019	31-May-2022	20-Dec-2022	27-Feb-2026				
Comments:	This indicator monit	ors the reduction in groundwate	er withdrawal by the Bolvad	lin Cooperative.				

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

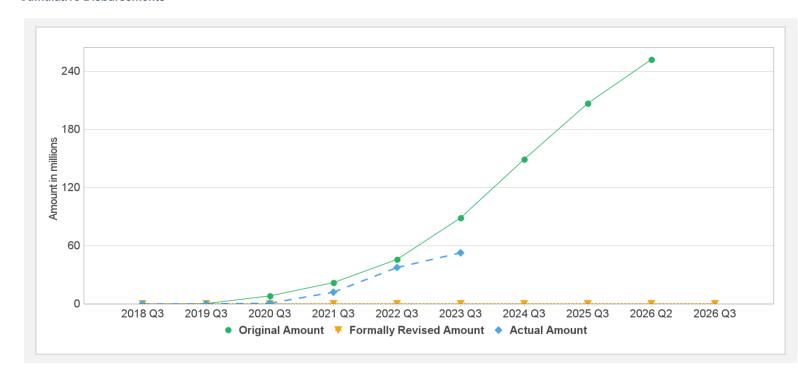
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P158418	IBRD-89190	Effective	USD	252.00	252.00	0.00	51.74	198.15	21%
P158418	TF-A9363	Closed	USD	2.00	0.00	2.00	0.00	0.00	0%
P167363	TF-B0863	Effective	USD	2.00	2.00	0.00	0.98	1.02	49%

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Key Dates	(by	loan)
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Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P158418	IBRD-89190	Effective	22-Jan-2019	15-Feb-2019	30-May-2019	27-Feb-2026	27-Feb-2026
P158418	TF-A9363	Closed	04-Feb-2019	04-Feb-2019	30-May-2019	27-Feb-2026	03-Jul-2019
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

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