

**PREPARATION OF THE INVESTMENT PLAN FOR
THE CLIMATE INVESTMENT FUNDS RENEWABLE ENERGY INTERGRATION
PROGRAM**

**Joint Mission
January 17-19, 2024**

draft

From January 17-19, 2024, the World Bank (WB), European Bank for Reconstruction and Development (EBRD) and the International Finance Corporation (IFC) will join the Government of Türkiye in conducting a hybrid joint mission in Ankara, Turkey, to prepare the Investment Plan (IP) for the Climate Investment Funds (CIF) Renewable Energy integration (REI) program. The REI Program seeks to help participating countries achieve flexibility of energy systems to enable the smooth integration of higher shares of variable renewable energy generation and increase off-grid access to renewable energy.

Background

In October 2021, the CIF Global Climate Action Programs (GCAP) Sub-Committee invited Türkiye to participate in the CIF REI program and prepare an investment (IP) that would be funded based on resource availability. In November 2023, the Clean Technology Fund (CTF) Committee invited Turkey, as well as India, Indonesia, and Ukraine, to submit their REI IPs to the CTF Committee for consideration and endorsement for funding allocations of up to USD 70 million.¹ The GCAP Sub-Committee welcomed and acknowledged the decision by the CTF Committee.

As per the CIF REI guidelines, the IP must be prepared in collaboration with the relevant CIF partner multilateral development banks (MDBs), namely, EBRD, IFC and WB, and submitted for approval by April 30, 2024, following the completion of the technical reviews and the consultation with the Government of Türkiye. During initial engagements with the MDBs, and through communications to the CIF, the Government of Türkiye confirmed the selection of WB as the lead MDB to coordinate, on behalf of the joint MDB group, the IP preparation process. On the Government of Türkiye side, Ministry of Treasury and Finance (MoTF) has assumed the coordinator role for all government bodies and the Ministry of Energy and Natural Resources (MENR) supports the process as the lead supporting institution.

Scoping mission: From November 2-3, 2022, the WB, EBRD and IFC joined the Government of Türkiye in conducting a virtual scoping mission to prepare the IP. Please see Appendix for the Scoping Mission Aide Memoire.

The specific objectives of the scoping mission were as follows:

- (a) discuss the principal energy strategies, orientations, and priorities in Türkiye,
- (b) provide an overview of the CIF REI Program, including the preparation process of the Investment Plan, and details of the investment priorities of the Program,

¹ https://www.cif.org/sites/cif_enc/files/2023-11/ctf_co_chairs_summary_november.pdf

- (c) present the programs, investments, and key activities of the MDBs in Türkiye,
- (d) present a case study with regard to the on-going CIF program in Türkiye and discuss lessons learnt,
- (e) discuss the investment priorities of the Government of Türkiye for the CIF REI Program, and
- (f) agree on a work plan and the next steps for the IP preparation, including the timeline, scope, timing of the joint mission and how the IPPG is to be used.

The Mission was composed of IFC, EBRD, WB and representatives from several ministries and institutions including MoTF, MENR, Ministry of Environment, Urbanization and Climate Change (MoEUCC), the Strategy and Budget Office, Ministry of Trade (MoT), Ministry of Industry and Technology (MoIT), Ministry of Transportation and Infrastructure (MoTI), Türkiye Energy, Mine and Nuclear Research Institute (TENMARK), Energy Market Regulatory Agency (EMRA), the Scientific and Technological Research Council of Türkiye (TUBİTAK), Turkish Electricity Transmission Company (TEİAŞ), Türkiye Industrial Development Bank (TSKB), Türkiye Development and Investment Bank (TKYB), Türkiye Industry and Business Association (TUSİAD), Independent Industrialists and Businessmen's Association (MÜSİAD).

The mission met all the planned objectives. On the IPPG, the Government decided not to apply for an IPPG, since some of the background documents and strategies have already handy, and it would be time consuming to establish a capacity within the newly established department in the MoTF, whose responsibility areas cover CIF operations.

Following the extensive discussions during the scoping mission to identify the priority areas for the investment plan based on the energy strategies and priorities in Türkiye, the following areas were selected for further discussion and elaboration in the scoping mission:

- a) Strengthening and further digitizing the power transmission system, and facilitating large-scale renewable energy integration;
- b) Increasing the efficiency of the existing hydropower projects;
- c) Storage of electricity both as battery storage and pumped hydro storage;
- d) Supporting e-mobility;
- e) Generation, storage, transportation and usage of green hydrogen; and
- f) Climate adaptation of grid may also be considered.

Joint Mission Objectives and Schedule

The objectives of the joint mission are as follows:

- a) to elaboratively discuss the priority investment areas identified during the scoping mission with the relevant counterparts, as noted above, with a view to finalize the main investment components in the REI IP and receive initial feedback on these from key stakeholders
- b) to discuss any other emerging priority areas of the Government of Türkiye, if any, and
- c) to discuss how the mobilize resources for assistance and advisory services, and to crowd in possible resources and funding to complement the program funding.

The tentative mission schedule is indicated in Table 1.

Table 1: Tentative Joint Mission Schedule

Date and time	Meeting	Address	Participants
January 17, 2024 a.m.	Kick-off meeting	World Bank premises	EBRD, IFC, WB, CIF Secretariat, MENR, MoTF, Government counterparts, TUSIAD, private sector and civil society, as needed.
January 17, 2024 a.m.	Hydro power rehabilitation and pumped hydro storage	EUAS & DSI	EBRD, IFC, WB, CIF Secretariat, MENR, MoTF, Government counterparts
January 17, 2024 p.m.	Power transmission	TEIAS	EBRD, IFC, WB, CIF Secretariat, MENR, MoTF, Government counterparts
January 18, 2024 a.m.	E-Mobility	Ministry of Transport and Infrastructure	EBRD, IFC, WB, CIF Secretariat, MENR, MoTF, Government counterparts
January 18, 2024 a.m. and p.m.	Other topics		EBRD, IFC, WB, CIF Secretariat, MENR, MoTF, Government counterparts
January 19, 2024 a.m.	Wrap-up Meeting	World Bank premises	EBRD, IFC, WB, CIF Secretariat, MENR, MoTF, Government counterparts

At the end of this mission a Mission Aide Memoire will be prepared and submitted to the CIF Administrative Unit summarizing the outcome of the CIF Türkiye Joint Mission

A second joint mission is foreseen for early March to finalize the Investment Plan and make all arrangements for government consultations and approval, finalizing stakeholder consultations, and technical review.

The expected timeline with regard to the remaining IP preparation process is as follows:

MDB meeting for final preparations of the joint mission : January 11, 2024
 Joint mission- 1 : January 17-19, 2024
 First draft IP : End February, 2024
 Joint mission- 2 : Early March, 2024
 Finalization of draft IP : End-March, 2024
 Government consultations, public commenting, technical review: Early-April, 2024
 Finalization of the IP : Mid-April, 2024
 Submission of the IP to the CIF Secretariat by the Government : Latest April 30, 2024

APPENDIX: SCOPING MISSION AIDE MEMOIRE

TÜRKIYE

Climate Investment Funds (CIF)

Renewable Energy Integration (REI) Program

Aide Memoire – Scoping Mission

November 22-23, 2022

Background

The CIF Global Climate Action Programs (GCAP) Sub-Committee had invited Türkiye and four other countries to prepare investment plans with regard to the Renewable Energy Integration (REI) Program, with an expected funding of up to \$70 million. The Program seeks to help participating countries achieve flexibility of energy systems to enable the smooth integration of higher shares of variable renewable energy generation and increase off-grid access to renewable energy. Per CIF guidelines, the Investment Plan must be prepared in collaboration with the three multilateral development banks (MDBs) and submitted for approval by end-April 2024, following the completion of the technical reviews and the consultation with the Government of Türkiye.

During initial engagements with the MDBs, and through communications to the CIF, the Government of Türkiye confirmed the choice of the World Bank as the lead MDB to coordinate the preparation process of the Türkiye REI Investment Plan. On the Government of Türkiye side, Ministry of Treasury and Finance (MoTF) has assumed the coordinator role for all government bodies and the Ministry of Energy and Natural Resources (MENR) supports the process as the lead supporting institution.

The activities that could be supported under the IP are as follows:

For lending purposes:

- a) Scaling up RE enabling technologies such as storage, smart grid, technologies that enhanced electrification of other sectors to open doors to new markets to renewable generation green fuels;
- b) Enhancing the infrastructure to be ready for renewables;
- c) Innovative use of RE and
- d) Enhancing system and market design and operation.

For technical purposes:

- a) Facilitating sector level activities such as preparing bankable projects, roadmap for deep decarbonization, improved or new auction mechanisms for RE; and
- b) Promoting market and system design and operations

Scoping Mission Objectives and Participation

From November 2-3, 2022, the World Bank, European Bank for Reconstruction and Development (EBRD) and the International Finance Corporation (IFC) joined the Government of Türkiye in conducting a virtual scoping mission to prepare the Investment Plan (IP) for the REI program of the CIF. Please see Annex 1 for the detailed scoping mission program.

The specific objectives of the scoping mission were as follows:

- (a) discuss the principal energy strategies, orientations, and priorities in Türkiye,
- (b) provide an overview of the CIF REI Program, including the preparation process of the Investment Plan, and details of the investment priorities of the Program,
- (c) present the programs, investments, and key activities of the MDBs in Türkiye,
- (d) present a case study with regard to the on-going CIF program in Türkiye and discuss lessons learnt,
- (e) discuss the investment priorities of the Government of Türkiye for the CIF REI Program, and
- (f) agree on a work plan and the next steps for the IP preparation, including the timeline, scope, timing of the joint mission and how the IPPG is to be used.

The Mission was composed of IFC, EBRD, WB and representatives from several ministries and institutions including MoTF, MENR, Ministry of Environment, Urbanization and Climate Change (MoEUCC), the Strategy and Budget Office, Ministry of Trade (MoT), Ministry of Industry and Technology (MoIT), Ministry of Transportation and Infrastructure (MoTI), Türkiye Energy, Mine and Nuclear Research Institute (TENMARK), Energy Market Regulatory Agency (EMRA), the Scientific and Technological Research Council of Türkiye (TUBİTAK), Turkish Electricity Transmission Company (TEİAŞ), Türkiye Industrial Development Bank (TSKB), Türkiye Development and Investment Bank (TKYB), Türkiye Industry and Business Association (TUSİAD), Independent Industrialists and Businessmen's Association (MÜSİAD). Please see Annex 2 for the participant list.

Findings of Technical Meetings

On the first day of the scoping mission, following the introductory remarks of MENR and MoTF, The WB presented the CIF REI Program, guidelines for the IP development process, confirmation of the roles including the lead MDB role, and the scope of Türkiye's CIF REI Program. As an introductory presentation, the Government of Türkiye presented the country's energy transition and decarbonization strategies.

In the following session, the programs, pipelines, and key activities of the MDBs in Türkiye were presented by MDBs. After TEİAŞ' presentation on their experience with the ongoing CIF program, by discussing future investment needs for further renewable energy deployment and integration, smart grids, digitalization and demand management and flexibility issues of the national power grid including energy storage, information was exchanged among participants, towards potentializing specific initiatives for modernization of the power grid.

In the second day of the mission, energy storage, electric mobility, green hydrogen, hydropower efficiency, demand side management and renewable energy deployment were discussed.

The MENR presented the strategic priorities as follows:

- (a) Sustainable technologies with high efficiency and low carbon emissions,
- (b) Integration of the scaled-up RE scale up to the power system,
- (c) Transferring new technologies and developing available infrastructure and
- (d) Digitized, smart and green infrastructure.

Following the discussions to identify the priority areas for investment, the following areas were selected for discussion.

- d) Strengthening and further digitizing the power transmission system, and facilitating large-scale renewable energy integration;
- e) Increasing the efficiency of the existing hydropower projects;
- f) Storage of electricity both as battery storage and pumped hydro storage;
- g) Supporting e-mobility;
- h) Generation, storage, transportation and usage of green hydrogen; and
- i) Climate adaptation of grid may also be considered.

The joint mission will take place from January 17-19, 2024.

**ANNEX 1: CIF- REI TÜRKIYE SCOPING MISSION WORKSHOP PROGRAM
(NOVEMBER 2-3, 2022)**

November 2, 2022

Time	Subject	Comment
13:30 – 13:40	Welcome remarks MoTF and MENR welcome the Mission.	Mr. Kerem Donmez Deputy DG of Foreign Economic Relations, MoTF (5 min) Mr. Ozgur Sarhan Deputy Head of Department, MENR (5 min)
13:40 – 14:55	Introductory Presentations <ul style="list-style-type: none"> The WB presents the CIF REI Program, guidelines for the IP development process, confirmation of the roles including the lead MDB role, and the scope of Türkiye’s CIF REI Program. Government of Türkiye presents the country’s energy transition and decarbonization strategies. 	CIF-REI Program Mrs. Megan Meyer, Senior Energy Specialist, WB (15 min) Türkiye CIF-REI Program and New Proposal Mrs. Yesim Akcollu, Senior Energy Specialist and Team Leader, WB (15 min) Country’s clean energy transition strategy Mr. Ozgur Sarhan Deputy Head of Department, MENR (15 min) Decarbonization studies <ul style="list-style-type: none"> Mr. Elif Gokce Oz, Head of Department, MoEUCC (15 min) Mrs. Hatice Hilal Sen, Department Head, SBO (15 min)
14:55- 15:15	Break	
15:15 – 16:15	Presentations on the programs, pipelines, and key activities by the MDBs in Türkiye.	Moderator: Mr. Stephan Garnier, Türkiye INFRA Program Leader, WB - EBRD’s Türkiye Energy Program, Mrs. Şule Kılıç Deputy Head, EBRD (10 min) Mr. Mehmet Erdem Yasar, Associate Director, Senior

Time	Subject	Comment
		<p>Banker, Energy Eurasia MEA, Sustainable Infrastructure Group, EBRD (10 min)</p> <ul style="list-style-type: none"> - IFC's Türkiye Energy Program, Mr. Andrey Shlyakhtenko, Senior Operations Officer, IFC (20 min) - WB's Türkiye Energy Program, Mrs. Yesim Akcollu, Senior Energy Specialist and Team Leader, WB (20 min)
<p>16:15 – 16:35</p>	<p>Case Study on On-Going CIF Program and Lessons Learnt: Renewable energy integration (REI) and digitalization/ smart grids. TEIAS presents their experience with the on-going CIF program.</p>	<p>Türkiye Renewable Energy Integration Project Mrs. Nevin Ertürk, PIU Director, TEIAS (20 min)</p>
<p>16:35 – 17:00</p>	<p>Technical Meeting 1: Intergovernmental exchange towards potentializing specific initiatives for modernization of the power grid.</p> <p>Main topics to be discussed:</p> <ul style="list-style-type: none"> • Future investment needs for further renewable energy deployment and integration • Smart grids, digitalization and demand management • Flexibility of the national power grid including energy storage 	<p>Discussion and identification of priorities (15 min)</p> <p>Mrs. Yesim Akcollu and Team Leader, Senior Energy Specialist, WB</p>
<p>17:00-17:30</p>	<p>Q&A and Comments</p>	

November 3, 2022

Time	Subject	
<p>13:30 – 14:30</p>	<p>Technical Meeting 2: Intergovernmental exchange towards potentializing specific initiatives. Presentations by the Government, academia, NGOs and business associations.</p> <p>Main topics to be discussed:</p> <ul style="list-style-type: none"> • Energy storage • Electric mobility • Green hydrogen • Hydropower efficiency • Demand side management • Renewable energy deployment 	<p>Hydrogen, Mr. Celal Erbay, Energy and Technology Policies Coordinator, TENMAK (12 min)</p> <p>E-mobility - Mr. Okan Yardımcı, Group Head, EMRA (12 min)</p> <p>Hydropower Efficiency- Mr. Furkan Yardımcı, Engineer, EUAS (12 min)</p> <p>Battery Storage - Mr. Melih Yetiş, Expert, EMRA (12 min)</p> <p>Demand side participation - Mrs. Mehtap Alper Sağlam, Expert, EMRA (12 min)</p>
<p>14:30 – 15:30</p>	<p>Technical meeting 3:</p> <ul style="list-style-type: none"> • The MENR presents potential areas for further analysis and possible consideration within the framework of the IP. • Discussion to identify the 4-5 most promising opportunity areas on which to focus efforts for IP preparation (priority areas of intervention) • Discussion on the indicative concept of activities identified for potential support through the IP 	<p>Mr. Engin Bostancı Acting Head of Department MENR</p>
<p>15:30 – 16:30</p>	<p>Break</p>	
<p>16:30 – 17:00</p>	<p>Technical Meeting 4:</p> <ul style="list-style-type: none"> • Identification of the roles of lead and supporting relevant institutions and actors that are engaged on the CIF programmatic areas and functions; and would be involved in the IP preparation. 	<p>Mr. Kerem Donmez Deputy DG of Foreign Economic Relations, MoTF</p>

Time	Subject	
	<ul style="list-style-type: none"> <li data-bbox="412 199 911 409">• Agreement on a work plan for the IP preparation including the timeline, scope; timing of a Joint MDB misión; any points around the Aide Memoire; and how IPPG is to be used. 	
17:00 – 17:30	Closing meeting: Review of conclusions, tasks, and agreements; final comments	

ANNEX 2: PARTICIPANTS

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