





FINANCIAL PROGRAMS AND CALL

SOURCES OF FINANCING FOR TURKISH PARTNERS ENGAGED INTO SECAP-RELATED ACTIVITIES

Daiva Matonienė Project EU4ETTR team leader, CPVA

2025-03-20





Common goals: Green Deal







What Is the Future of the EU Once Ambitious Green Agenda?



President of the European Commission Ursula von der Leyen. Photo: European Parliament/Flickr.

- 2025 The European Commissions' claimed that the European Green Deal has shifted from an ecological agenda to <u>competitiveness agenda</u> ... is expected to <u>accelerate deforestation</u>

....by up to 25% due to increased demand for agricultural product...





SECAP : an ambition and a challenge



- An ambition: to be among leaders of green transformation
- Double challenge:
 - To improve environment, energy, awareness and quality of life
 - To get funding for that







- Where to get funding from?
- How to connect the funding available with particular needs: how to make your idea bankable / fundable?





Challenges of funding

- No single source for all SECAP
- Breaking down into small and smaller sub-projects and activities
- Combining sources
- Partnership (where relevant)





... and the most important:

- Selling the idea to the donor: making your goal their interest
- Meeting donor's expectations (reading the first page of the call)





Major sources of public investment

• Grants

- IPA: European Union Instrument for Pre-Accession Partnership
- EU Cross-border cooperation programmes
- Horizon Europe European Union Research and innovation funding programme
- Twinning
- Development cooperation
- Dedicated climate action programmes/projects
- Loans
 - European Bank for Reconstruction and Development (EBRD)
 - European Investment Bank (EIB)
 - World Bank (WB)
- International vs. Domestic sources
- Green finance instruments
- Innovative financial models





Grants

- IPA: European Union Instrument for Pre-Accession Partnership
- EU Cross-border cooperation programmes as Inttereg..
- Horizon Europe: European Union Research and innovation funding programme
- Twinning
- Development cooperation
- Dedicated climate action programmes/projects





IPA: EU Instrument for Pre-Accession Partnership https://ipa.gov.tr/







Life program main objectives:

1. Help to move towards a resource-efficient, low carbon and climate resilient economy, improve the quality of the environment and halt and reverse biodiversity loss;

2. Improve the development, implementation and enforcement of EU environmental and climate policy and legislation, and act as a catalyst for, and promote, the mainstreaming of environmental and climate objectives into other policies and practices;

3. Support better environmental and climate governance at all levels, including better involvement of civil society, NGOs and local actors;

4. Support the implementation of the 7th environmental action plan.









LIFE Clean Energy Transition (CET) Call 2025

The LIFE Clean Energy Transition (CET) call for proposals 2025 will be published on 24 April (tentatively)

https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/calls-for-proposals





Horizon Europe





Horizon Europe

- ...the EU's key funding programme for research and innovation
- Budget of €95.5 billion
- Priorities: tackling climate change, achievement of the UN Sustainable Development Goals, boosting the EU's competitiveness and growth.
- Open for Member States, Candidate Countries, Neighbours and (in some cases) Other Countries





Horizon Europe Five Missions Areas

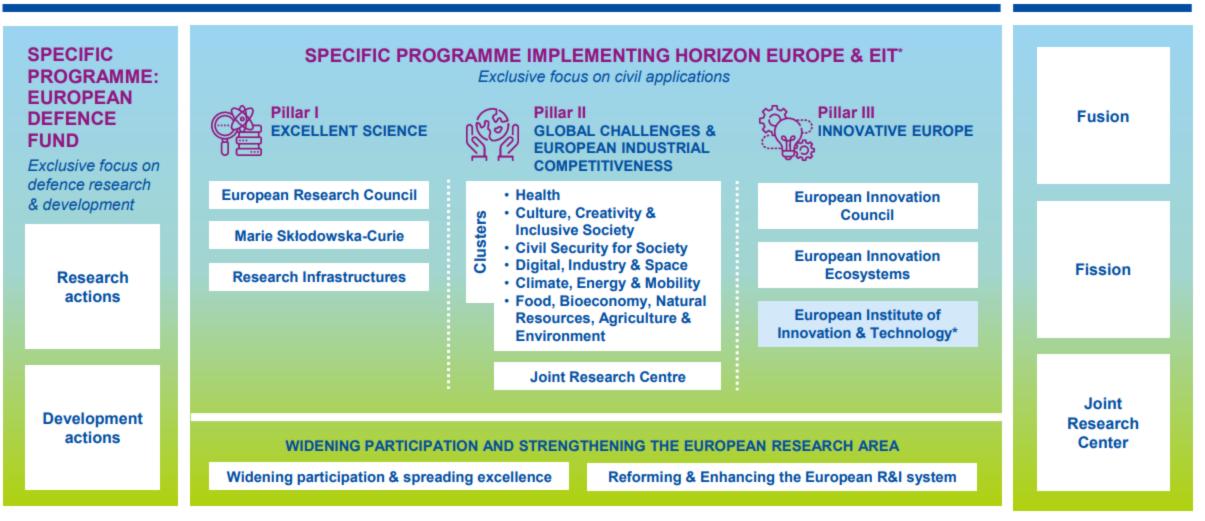






EURATOM

HORIZON EUROPE



* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme





HORIZON EUROPE PILLAR II - Global challenges & European industrial competitiveness

PILLAR III - Innovative Europe

CLUSTER 1: Health	CLUSTER 4: Digital, Industry & Space	CLUSTER 5: Climate, Energy & Mobility	CLUSTER 6: Food, Bioeconomy, Agriculture,	EIT (KNOWLEDGE & INNOVATION COMMUNITIES)	SUPPORT TO INNOVATION ECOSYSTEMS
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe	InnoEnergy	Innovative SMEs
Global Health Partnership	Smart Networks & Services	Clean Aviation	Rescuing Biodiversity to Safeguard Life on Earth	Climate	
Transformation of health systems	High Performance	Single European Sky ATM Research 3	Climate Neutral,	Digital	
Computing Computing		Europe's Rail	Sustainable & Productive Blue Economy	Food	
assessment	European Metrology (Art. 185)	Connected and Automated	Water4All	Health	
ERA for Health	AI-Data-Robotics	Mobility (CCAM)	Animal Health & Welfare*	Raw Materials	
Rare diseases*	Photonics	Batteries	Accelerating Farming	Manufacturing	
One-Health Anti Microbial Resistance*	Made in Europe	Zero-emission waterborne transport	Systems Transitions*	Urban Mobility	
Personalised Medicine*	Clean steel – low-carbon steelmaking	Zero-emission road transport	Agriculture of Data* Safe & Sustainable Food	Cultural and Creative Industries	
Pandemic Preparedness* Co-funded or co-programmed	Processes4Planet	Built4People	System*		
	Global competitive space systems**	Clean Energy Transition		CROSS-PILLARS II &	ш
Institutionalised Partnerships (A		Driving Urban Transitions		European Open Science Clou	d
Institutionalised Partnerships / E	IT KICs				
Co-Programmed Co-Funded		 Calls with opening dates in 2023-24 Calls with opening dates not before 2022 			Europea Commis





Horizon Europe: Partnerships on Climate, Energy and Mobility

- European Partnership on Clean Hydrogen
- People-centric sustainable built environment (Built4People)
- European Partnership Towards zero-emission road transport (2ZERO)
- European Partnership on Connected and Automated Driving (CCAM)
- European Partnership on zero-emission waterborne transport
- European Partnership for an Industrial Battery Value Chain
- European Partnership driving urban transitions to a sustainable future (DUT)
- European Partnership for Clean Energy Transition





Horizon Europe

- A Climate Resilient Europe Prepare Europe for climate disruptions and accelerate the transformation to a climate resilient and just Europe by 2030
- Targets by 2030: prepare Europe to deal with climate disruptions, accelerate the transition to a healthy and prosperous future within safe planetary boundaries and scale up solutions for resilience that will trigger transformations in society.
- 100 Climate-Neutral Cities by 2030 by and for the citizens
- Targets by 2030: support, promote and showcase 100 European cities in their systemic transformation towards climate neutrality by 2030 and turn these cities into innovation hubs for all cities, benefiting quality of life and sustainability in Europe.





Horizon Europe: principles of funding

- CO-PROGRAMMED:
 - Based on Memoranda of Understanding/contractual arrangements;
 - Implemented independently by the partners and by Horizon Europe;
- CO-FUNDED:
 - Based on a joint programme agreed and implemented by partners;
 - Commitment of partners for financial and in-kind contributions
- INSTITUTIONALISED:
 - Based on long-term dimension and need for high integration;
 - Partnerships based on Art 185/187 of TFEU and the EIT legal acts for 2021-2027









 Through the strategic plan, investment in R&I is directed towards tackling key global challenges such as: climate change; pollution; energy poverty, the loss of biodiversity; the digital transition; an ageing population; and building a more resilient, competitive, democratic and inclusive Europe.





INTERREG & European Neighbourhood Initiative: Cross-border cooperation





INTERREG & ENI: Cross-border cooperation

- INTERREG Bulgaria Turkey CBC programme 2021-2027
- ENI CBC Black Sea Programme

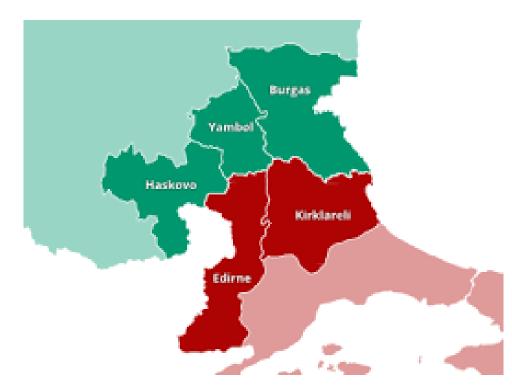




INTERREG Bulgaria – Turkey IPA CBC programme 2021-2027

- EUR 29 252 963 (ERDF and IPA III contribution).
- Border regions of Bulgaria and Turkey
- Eligible beneficiaries: legal entities of the cross border region, which are non-profit making organizations (i.e. local/ regional/ national authorities or their subsidiaries; national and regional agencies; administrations of protected areas, forestries; cultural institutions; community centres; NGOs; educational organizations; Euro regions; associations of two or more of the listed above).
- Possibility to engage out-of-area partners









INTERREG Bulgaria – Turkey IPA CBC programme 2021-2027

• PO 2 A greener, lowcarbon Europe:

Interreg - IPA CBC

PARTNE_RSHIP

- Promoting energy efficiency and reducing greenhouse gas emissions
- Promoting the transition to a circular economy
- PO 5 A Europe closer to citizens:
 - Fostering the integrated social, economic and environmental development, cultural heritage
- ISO 2: A safer and more secure Europe:
 - Improving migration management





ENI CBC Black Sea Basin Programme 2021-2027 All projects

- Under development
- Geographical scope: coastal areas of the Black Sea countries and entire area of Southern Caucasus states (except for Russia).
- Co-financing rate: 80%.

blacksea-cbc.net/interactive-map/

Попово		Kavatna		
таrgovishte Търговище Veliki Preslav Велики Преслав	Contact person: Address: Email:	Heritage Preservation, Georgia Dr. Mariam Didebulidze 52 Rustaveli av., Tbilisil, Georgia; (+99532) 2931338; (+99532) 2990588; (+99532) 2932248 marididebuli@yahoo.com; didebulidze@gch-centre.ge	×	[]
Котел Sliven Сливен gment purposes ambol For deve	Partner 5 Name: Contact person: Address: Email:	Municipality of Varna, Bulgaria M. Kulikov 43 "Osmi Primorski polk" Blvd., Varna 9000, Bulgaria; +359 52 659125; +359 52 659225 mkulikov@varna.bg	nly	For development purposes
ра Meder Meder Меден Раднево Elhovo Enxово	Partner 6 Name: Contact person: Address: Email:	Istambul University, Faculty of Letters, Department of Conservation of Marine Archaeological Objects, Turkey Assoc. Prof. Dr. Ufuk Kocabas Istanbul Universitesi, Edebiyat Fakultesi, Sualti Kultur, Kalintilari Koruma Anabilim Dali, Ordu C.34459 - Laleli Fatih, Istanbul, Turkey; +90 212 455 5700 - 15743; +90 212 455 5743 ufukk@istanbul.edu.tr		
Svilengrad Csiznewrpaz, Edime Popment purposes only Didymoteicho Διδυμότειχο Uzunkopru	Partner 7 Name: Contact person: Address: Email:	Koc University of Instabul, Turkey Meltem Isanlar Rumeli Feneri Yolu 34450 Sariyer, Istanbul, Turkey; +90 212 338 1293; +90 212 338 1205 misanlar@ku.edu.tr	nly	For developmentinguptioner





ENI CBC Black Sea Basin Black

Programme Thematic Objectives

- Business and SME development
 - Promote business and entrepreneurship in the tourism and cultural sectors
- Business and SME development
 - Increase cross-border trade opportunities and modernisation in the agricultural and connected sectors
- Environmental protection, climate change mitigation and adaptation
 - Improve joint environmental monitoring
- Environmental protection, climate change mitigation and adaptation
 - Promote common awareness-raising and joint actions to reduce river and marine litter in the Black Sea Basin





CBC's: common rules

- Cross-border cooperation element
- Mirror and asymmetric projects
- ~80% EU funding
- Rather low budgets:
 - Up € 5 M in exceptional cases;
 - Average project budget size below € 1 M;
 - Limitations on infrastructure investments outside of core areas;







Twinning







Twinning

- "...a European Union instrument for institutional cooperation between Public Administrations of EU Member States and of beneficiary or partner countries."
- IPA region:
 - ...supports transposition, implementation and enforcement of the EU legislation (acquis),
 - ...by building up capacities of beneficiary countries' public administrations throughout the accession process,
 - ...resulting in progressive, positive developments.
 - ...sharing good practices developed within the EU with beneficiary public administrations, fostering long-term relationships between administrations of existing and future EU countries





Twinning: Beneficiaries

- Beneficiaries
 - Instrument for Pre-accession Assistance (IPA):
 - Albania, Bosnia and Herzegovina, Kosovo, Montenegro, North Macedonia, Serbia and Turkey.
 - European Neighbourhood Policy (ENP):
 - ENI South: Algeria, Egypt, Israel, Jordan, Lebanon, Morocco, Palestine and Tunisia.
 - ENI East: Armenia, Azerbaijan, Belarus, Georgia, Moldova and Ukraine.





Erasmus+



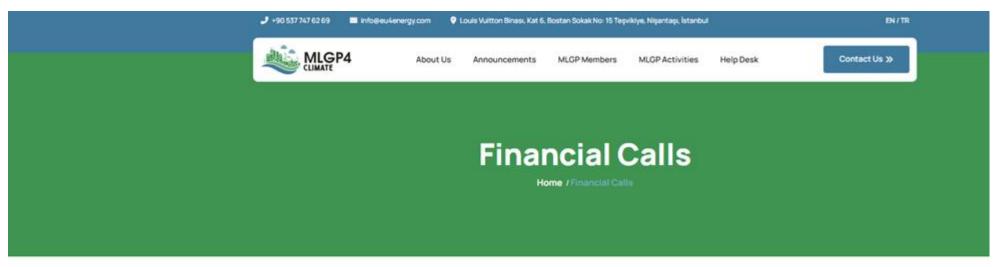
New 2025 Erasmus+ programme guide

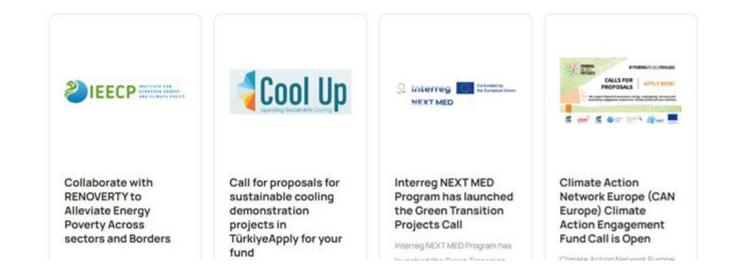
https://www.erasmustrainingcourses.com/erasmus-guide.html





https://mlgp4climate.com/financial-calls

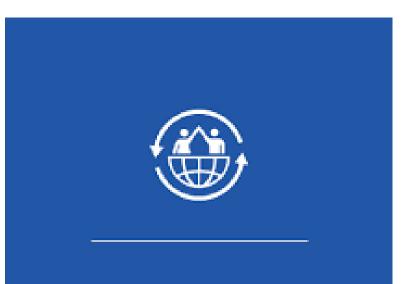








Development cooperation programs



International Development Cooperation





Development cooperation

- EuropeAid
- USAid
- Japan Aid
- National development cooperation agencies (SIDA, etc.)
- Bilaterial coopertion programs





• Dedicated climate action programmes/projects





International Climate Initiative (IKI) Germany

Areas of focus

The IKI funds projects in the following areas:

- Mitigating greenhouse gas emissions;
- Adapting to the impacts of climate change;
- Conserving natural carbon sinks with a focus on reducing emissions from deforestation and forest degradation (REDD+);
- Conserving biological diversity

Country eligibility

IKI provides support for its partner/cooperation countries, among which some priority countries exist. The main

criteria is to be an ODA DAC list country. Central Asia as a region is among IKI's list of partner/cooperation

regions; and out of this region, the priority countries are: Turkey, UkrainaThe list of partner countries is subject to change from year to year.





Small grants programme SGP Small Grants

- GEF Small Grants Programme (SGP)
- Financial and technical support to communities and Civil Society Organizations to meet the overall objective of global environmental benefits secured through community-based initiatives and actions.





Lithuanian Environmental Investment Fund (LAAIF)

- Established with the Strategy for Environmental Protection of Lithuania
- Statute of the Fund approved in 2010.



- Main goal of LAAIF: to support public and private sectors in realization of environmental projects to reduce the negative impact of economic activities on environment in compliance with the Environmental Strategy of the Republic of Lithuania.
- Support investment in the form of soft loans and subsidies





Practical example: Dutch Green Fund (FIFG)

- The Dutch Green Fund Scheme (FIFG) is a tax incentive tool used by the Dutch government to encourage environmentally friendly initiatives.
- Investing in green funds means that individual investors lend their money to banks at lower interest rates, but are offset by tax breaks. Green banks can offer cheaper loans for sustainable projects and improve their financial situation





Loans, financial models





Loans

- European Investment Bank (EIB)
- European bank for Reconstruction and Development (EBRD)
- World Bank (WB)
- Combination with Turkish domestic sources





European Investment Bank





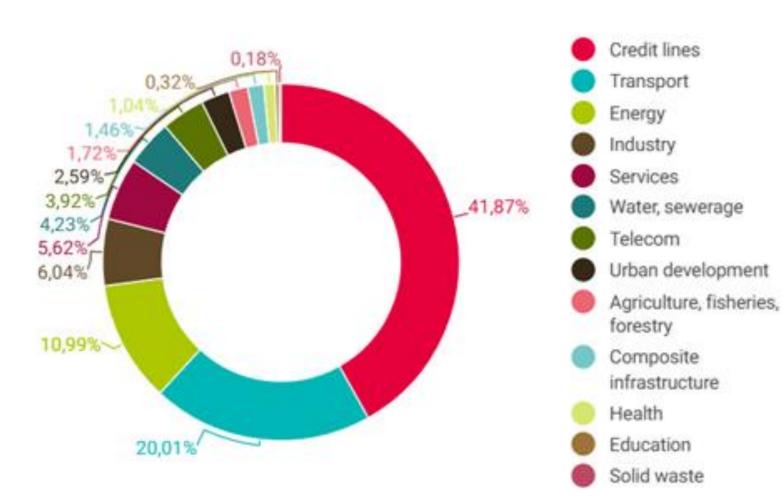


European Investment Bank

- Candidate Countries and Potential Candidate Countries.
- EIB operations since 1977, mainly upgrading of public infrastructure.
- New fields:
 - healthcare
 - education
 - research and development
 - private sector development
- Close work with the European Commission, blending loans with EU grants to achieve an optimal financing package.
- Large project loans directly to public and private bodies.



EIB and Türkiye



- Since 1965
- More 263 project financed
- €30,86 bn financed

CENTRAL PROJECT MANAGEMENT AGENCY





Types of EIB projects

- Circular economy projects:
 - Circular design and production
 - Circular use and life extension
 - Circular value recovery
 - Circular support

• The transition to circular cities

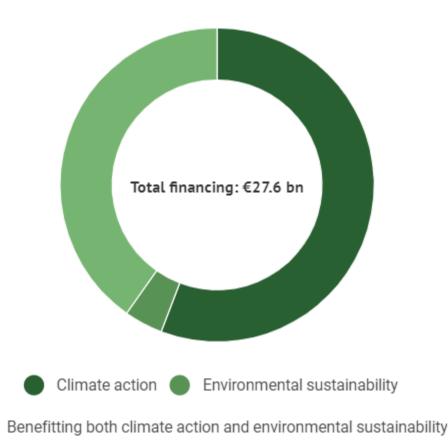
- Long term vision.
- Financial support Circular City Funding Guide.



Types of EIB projects

- Climate and environmental sustainability goals:
 - limit global warming to 1.5°C above pre-industrial levels by the end of this century,
 - adapt to the unavoidable impacts of climate change
 - combat environmental degradation,
 - halt biodiversity loss, and
 - stop widening inequalities.



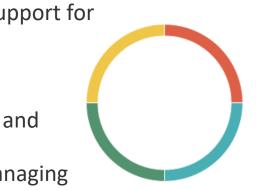






World Bank: project example

- Sustainable Cities Project for Turkey (2017-2024): (US\$ 158.99 M)
- Aim: to improve the planning capacity of and access to targeted municipal services in participating municipalities and utilities.
 - (1) Sustainable city planning and management systems component: support for improvement of sustainable urban development planning and urban sustainability. (EU-IPA 2 Recipient Executed Trust Fund Grant, \$25 M).
 - technical assistance support to municipalities and utilities;
 - preparation of feasibility studies, environmental assessments, and engineering designs;
 - support in grant management and in improving capacity in managing sustainable city systems.
 - (2) Municipal investments component: finance for demand-driven municipal infrastructure investments.
 - (3) Project management component: goods and consultancy services for project management, monitoring and evaluation, outreach and communication, and hiring of local technical consultants for the engineering supervision of Component B.



 Urban Transport
 Other Water Supply, Sanitation and Waste Management
 Sub-National Government
 Other Energy and Extractives





World Bank: projects

- Turkey Geothermal Development Project Additional Financing (\$300 M, 2021)
- Renewable Energy Integration (\$300 M, 2014-2022)
- Private Sector Renewable Energy and Energy Efficiency Project (\$500 M, 2009-2016)





European Bank for Reconstruction and Development





European Bank for Reconstruction and Development

- Turkey is both a recipient and a donor of EBRD
- EBRD strategic priorities in Türkiye:
 - strengthening resilience of the financial sector / developing domestic capital and financial markets;
 - fostering Turkey's knowledge economy and higher value-added activities / promoting good governance;
 - promoting economic inclusion and gender equality through private sector engagement;
 - accelerating Turkey's green economy transition and regional energy connectivity.

€15,450 million cumulative EBRD investment
89% private sector share of portfolio
€7,369 million current portfolio of projects





EBRD activities

- Dedicated Green Economy Transition (GET) products such as Renewable Energy, Green Economy Financing Facility (GEFF) credit lines, Green Cities, sustainable transport, and advising clients on green technologies/ practices.
- Track record advising on and investing in bankable renewables projects.
- Track record of engagement with authorities towards competitive energy markets and PSP in energy sector.
- Direct and intermediated financing for renewable energy projects (wind, solar, hydro, geothermal, biomass and distributed generation).
- Support for implementation of the National Renewable Energy Action Plan (NREAP) and implementation support for the RE regulatory framework.
- Explore investments in alternative fuel sources (e.g. biofuel) and other green technology investments, and promote improvements to the regulatory environment.





EBRD activities

- Support for development of a carbon trading system and related monitoring, reporting and verification (MRV) and GHG accounting.
- Support for the implementation of the National Energy Efficiency Action Plan (NEEAP) and provide support for the regulatory framework on resource efficiency.
- Work with corporate clients directly and through intermediaries to improve energy and resource efficiency, climate resilience (incl. water and raw materials) and environmental performance through green investments (e.g. green technologies, High Impact Corporate Programme, Near Zero Waste Programme).
- Direct and indirect financing for energy efficiency, with a focus on industry, agriculture, transport and buildings sector – incl. promotion of green buildings, smart/green technologies and emissions-reduction initiatives under the Green Cities Framework.





EBRD activities

- Uptake of sustainable finance management (i.e. accounting, tracking, eligibility and conditions) and dedicated financial instruments (e.g. green bonds).
- Support for circular economy and development of waste sector, incl. solid waste, wastewater treatment, waste recovery, and waste-to-energy solutions.
- Review of climate vulnerability of infrastructure and other assets, incl. at corporate level, and promote climate change mitigating measures (e.g. applying shadow water pricing in investment analysis).
- Support for enhanced energy storage capacity (e.g. electrification, batteries, pumped hydro, FSRU, underground gas storage).
- Support for network upgrade for the integration of renewable energy, enhancement of smart metering / smart grid systems, implementation of energy efficiency applications and regional interconnection.
- Support for investments in gas transmission and distribution networks and infrastructure connectivity, and engage selectively with public sector utilities to pursue reforms towards competitive energy markets.





EBRD: sample project

- "Renewable Energy Resources Project": investment opportunities through financing for private renewable energy companies. Carried out via Industrial Development Bank of Turkey (TSKB) and Investment Development Bank of Turkey (TYKB). Financed sub-projects:
- **P172562 Turkey Integrated Landscape Management Project**. Support for challenges in the Bolaman River Basin (Black Sea), the Cekerek River Basin (Central Anatolia), and a third basin to be identified. The project will also contribute to enhancing the livelihood security and resilience of local communities in these basins against the risks and impacts of climate-induced landslides, flooding, and drought. The project will adopt an integrated landscape management approach in the target basins to achieve these objectives through synergies between green and gray infrastructure.
- **P151739 Geothermal Development Project** and **P172827 Geothermal Development Project Additional Financing**. Promotion of private sector renewable geothermal energy projects.
- **P144534 Renewable Energy Integration**. Support for transmission system and facilitating large-scale renewable energy generation.
- **P162762 Energy Efficiency in Public Buildings**. Support for renovation of public buildings (i.e., public buildings under line ministries, such as schools and hospitals) and aim at energy savings from energy efficiency (EE) investments. Demonstrable energy cost savings and social cobenefits are expected.
- **P175894:** Seismic Resilience and Energy Efficiency in Public Buildings Project. Support for renovation or the demolition and reconstruction of central government and central-government affiliated buildings (i.e., public buildings under central line ministries, such as education facilities, dormitories and social facilities, health facilities, cultural centers, and administrative buildings). Demonstrable energy cost savings and life safety benefits expected.
- **P171645: Facilitating Industrial Transformation through Organized Industrial Zones.** To increase the efficiency and environmental sustainability of the selected Organized Industrial Zones (OIZ) in Turkey.





The mechanism will consist of three pillars:

Just Transition Fund

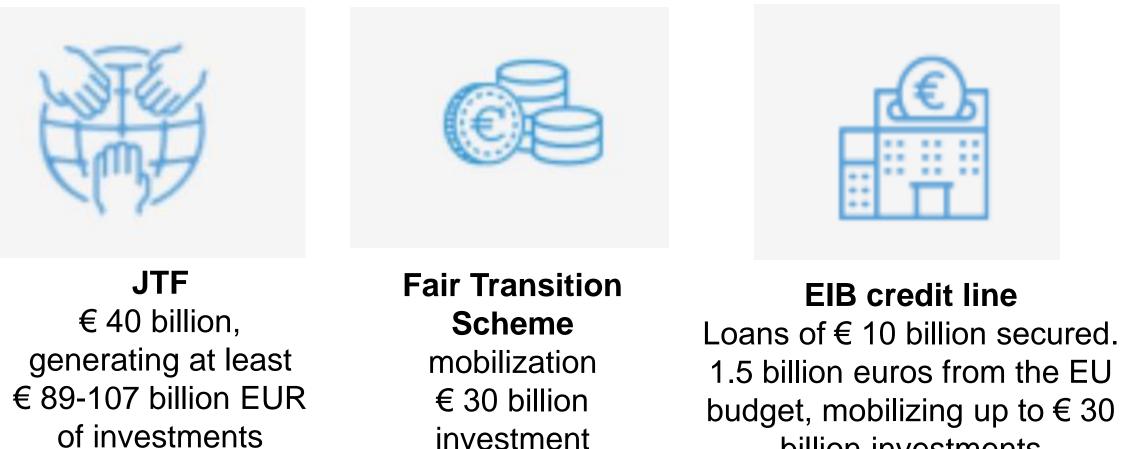
Dedicated scheme under the InvestEU programme

Loan facility provided by EIB to mobilize additional investments in the regions concerned





Just Transition Fund (JTF)



billion investments



Funded by the European Union

Green Finance

Serial No.	Instrument	Salient features
1	Green bonds	Debt or fixed income instrument labeled green by the issuer and used to raise
		capital for climate and environmentally beneficial projects, in line with the
		voluntary framework of Green Bonds Principles.
2	Green loans/	Lending of capital dependent on the environmental and resource utilization
	Concessional debt	criteria and characteristics of the projects.
3	Sustainability	Bonds whose proceeds are used to finance or re-finance a combination of both
	bonds	green and socially meaningful projects directed towards a specific population.
4	Chimate bonds	Fixed income climate aligned financial instruments that support endeavors with
		positive impact on climate, in line with Green Bonds Principles.
5	Social bends	Financial instruments that aim to support ventures in education, health and food
		security, towards creating positive social impact.
6	Carbon pricing	An economic cost applied to carbon emissions related to an industrial activity,
		generally in the form of a tax. The proceeds recovered by these mechanisms can
		be used to develop and deploy environment friendly technologies. Current day
		carbon markets operate via several mechanisms, described later.
7 Blended for	Blended finance	Combination of development finance (from public and private sources) and
		voluntary, philanthropic contributions towards mobilizing additional financial
		flows for sustainable development in developing and emerging economies.
8	Grants	Financial assistance from the private industry (generally) towards
		environmentally and socially impactful projects.
9	Sustainability	Bonds issued for general corporate uses but with specific sustainability linked
	linked bonds	indicators incorporated in the financial characteristics of the instruments.
10	Blue bonds	Debt finance instruments issued specifically to support measures for protecting
		the ocean and ocean-based communities, stland nations and preserving
		sustainable ocean economy.
11	Sovereign bonds	A debt security issued by a national government to meet part of its expenditures
	501.340-3624.90	on various projects including those linked to sustainable development and
		environmental preservation.
12	Transition bends	These instruments can be either green bonds or sustainability-linked bonds that
		are issued by corporate sector looking to align their financing strategy to their
		climate transition and decarbonization strategies.
13	Green	It indicates conversion of illiquid green assets (e.g., green buildings) into
	securitization	tradable financial instruments (debt). They are commonly used to re-finance
		green loans and mortgages.
14	Green Denvatives	It is a financial arrangement for mitigating and managing risk in some kinds of
		green investments by assigning a value to a green asset.
15	Green Sukuk	It is an Islamic financial instrument that finances projects with environmentally
		positive impacts, in compliance with the Sharish principles
16	Green/ eco-	These include insurance products that invest a part of their proceeds into green
	friendly insurance	projects or which help any damaged assets to be replaced by more sustainable
	products	and environmentally friendly assets.







Dedicated climate investment funds (non-exhaustive list)



Funded by the European Union Climate investment funds



CIF Expands Climate Responsive Development Planning and Action to 72 Developing and Middle Income Countries Worldwide





Other funds:

- Special Climate Change Fund (SCCF)
- Least Developed Countries Fund (LDCF)
- Capacity-building Initiative for Transparency (CBIT)
- Nagoya Protocol Implementation Fund (NPIF)
- Adaptation Fund





Turkish domestic sources: AKBANK and İKLİMSA

- Akbank and Iklimsa: lending programme for rooftop solar energy installations.
- Akbank will provide Roof GES Investment Loan for EPC services to Iklimsa operating under the roof of Teknosa.
- Cooperation would include all potential investors, including individual, corporate, commercial and SMEs.
- Akbank's goal: to provide YTL 200 bln. of 'sustainable financing' to the Turkish economy by 2030, to increase the balance of mutual funds, which fall under the 'sustainable investment' category, to 15 billion TL, and to become a carbon neutral bank by 2025.
- Iklimsa has >500 authorized dealers and services in 67 provinces of Turkey.





Public private partnership







Findings

- Finance is not problem...
- Important to drive comprehensive projects
 With innovations and valuable partners...







