

EBRD Green Cities Framework



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EBRD Municipal Experience



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+425

Projects since 1994

+220

Cities engaged

€ 7.3 billion

Invested in municipal &
environmental infrastructure

€ 8.3 billion

Of co-financing and
grants mobilised



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Green Cities Framework - GrCF



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Ljubljana, Slovenia

€250m Framework to support cities to identify, benchmark, prioritise and invest in Green City measures to improve urban environmental performance through:



Delivery of strategy and policy support

Green City Action Plans (GCAP)

Policy dialogue



Facilitating and stimulating Green City infrastructure investments

Urban

transport

District heating

Solid Waste

Water & Wastewater

Building energy efficiency

Street Lighting & Roads



Building capacity of city administrators and key stakeholders



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Eligibility Criteria



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INFRASTRUCTURE INVESTMENTS

Framework focus on sectors:

- Solid Waste
- Water & Wastewater
- Urban Transport
- District Heating
- Public Building Energy Efficiency

CITIES OF $\geq 100,000$

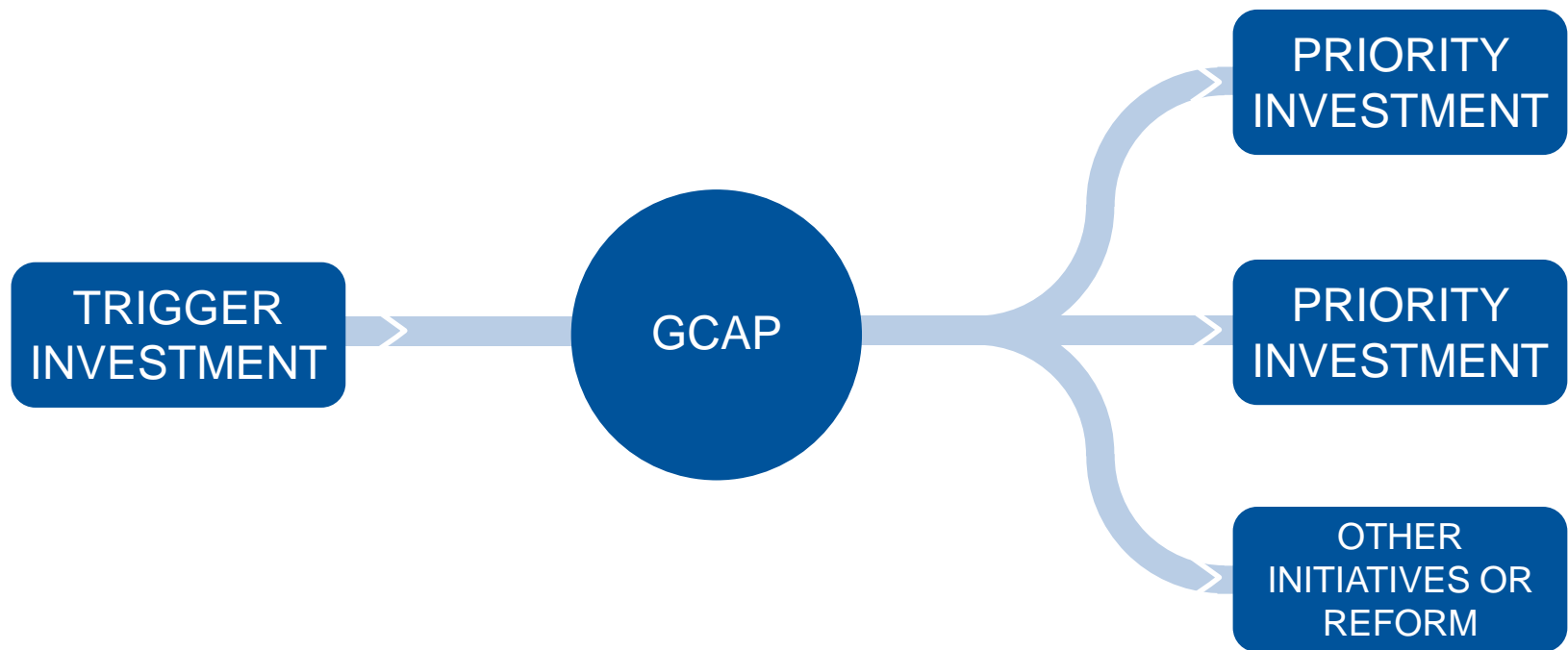
MUST CONDUCT GCAP

INITIATE 'TRIGGER' PROJECT

in one of the Framework's sectors, in conjunction with the GCAP



GrCF: delivers Green investments & policy support



Example

Tbilisi Buses

Tbilisi GCAP

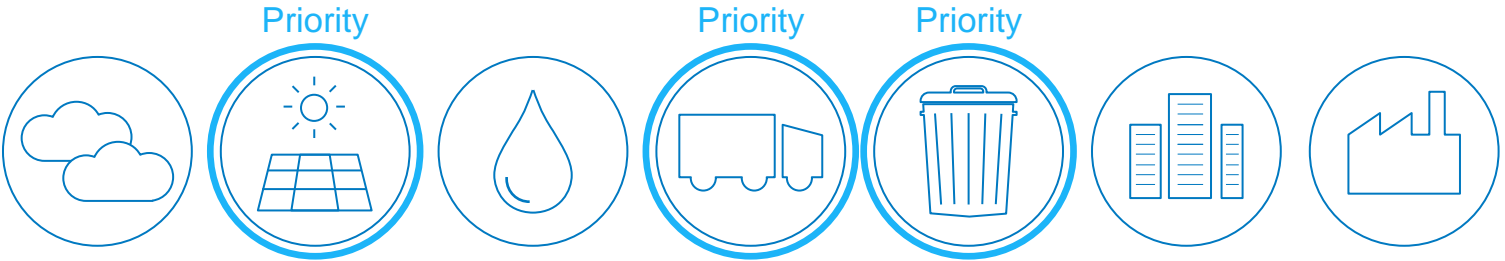
Tbilisi Solid Waste

Green City Action Plans



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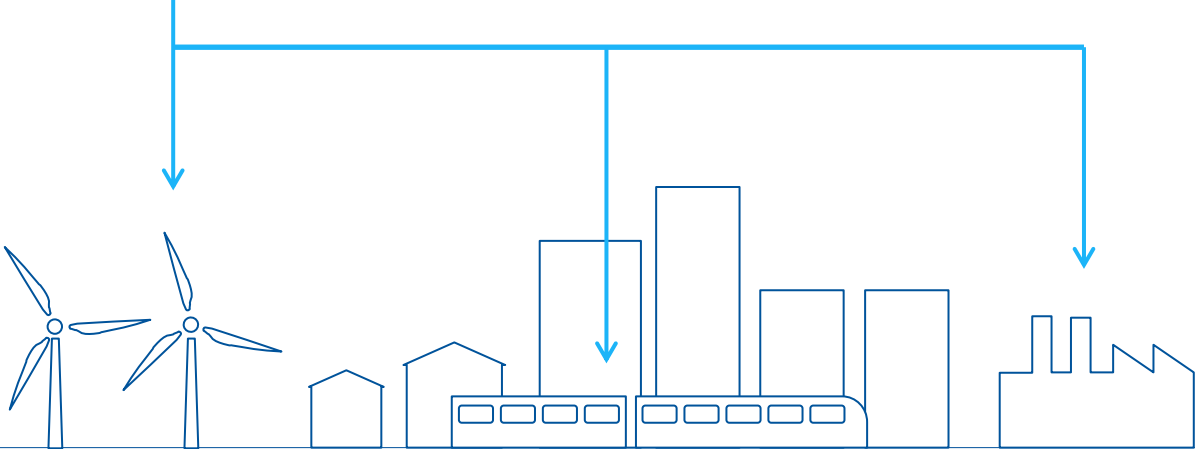
BASELINE



ACTION
PLAN



TARGETED
INVESTMENT

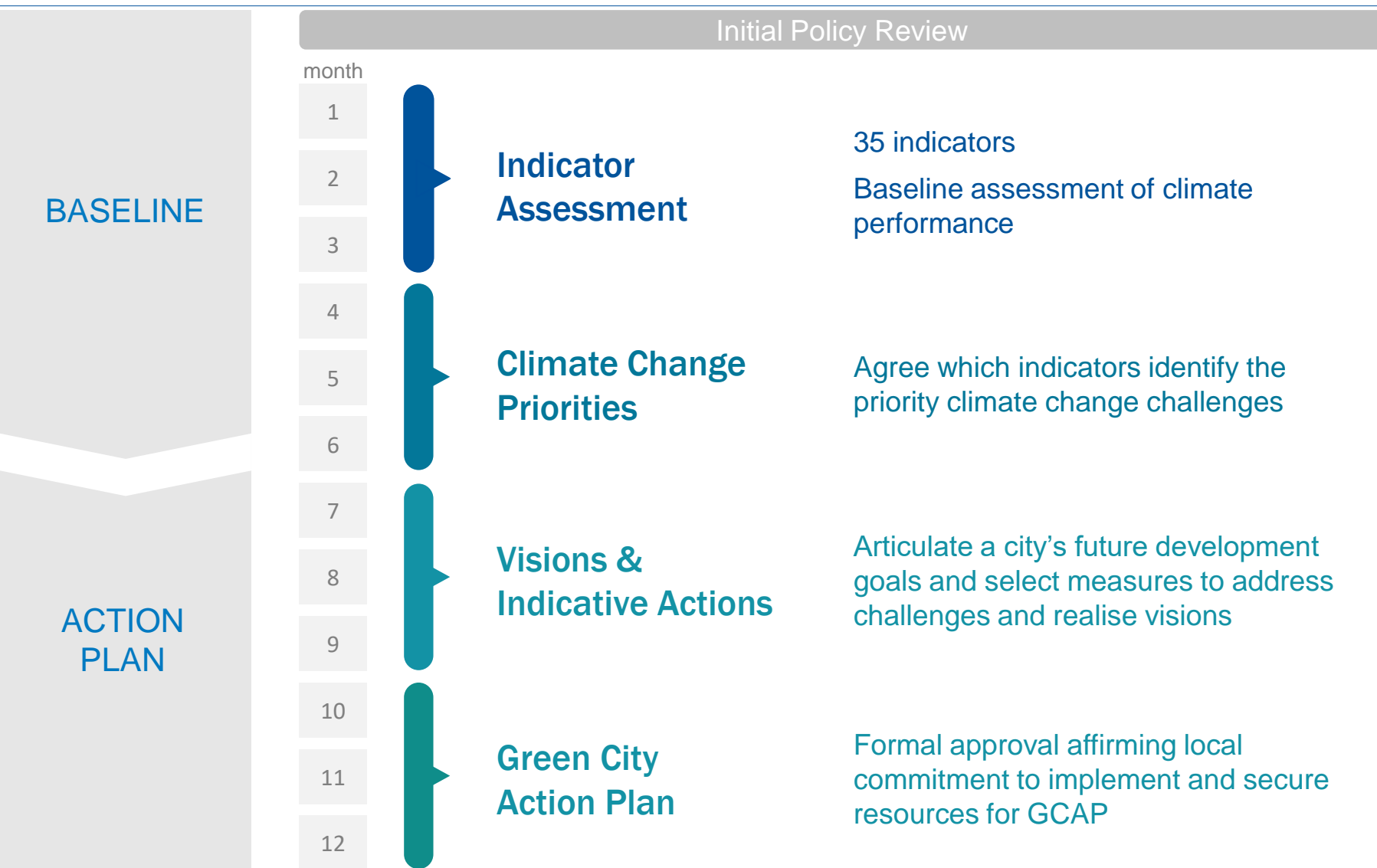




GCAPs – a systematic approach



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Ex. Tirana GCAP – selected measures

Theme	Capital Costs (€M)	Operational Costs (€M)	Potential Funding Sources			
			City Budget	National Government	IFIs & Donors	Private Sector
Sustainable Mobility	€ 38.1	€ 6.6	✓✓✓	✓	✓✓	✓✓
Green Spaces & Biodiversity	€ 171.3	€ 7.4	✓✓	✓	✓	✓✓
Sustainable Energy	€ 40.7	€ 0.9	✓	✓✓✓	✓✓	✓✓✓
Resource Management	€ 296.1	€ 30.1	✓	✓✓✓	✓✓	✓
Climate Change Resilience & Adaptation	€ 1.6	€ 2.2	✓✓	✓	✓	✓
Resources & Capacity	€ 0	€ 3.4	✓✓	✓	✓✓	✓

UKT Water



- Extension of a water treatment plant
- Construction of a new gravity fed water pipeline
- Will help the City provide 24 hr water service to all citizens by 2021
- Reduce the water company's operating costs

Prioritise those areas where the City determines actions is needed most, potentially including:



Reduce
pollution
emissions



Improve energy
efficiency



Improve water
quality



Improve access
to green space

Kick Off Meetings



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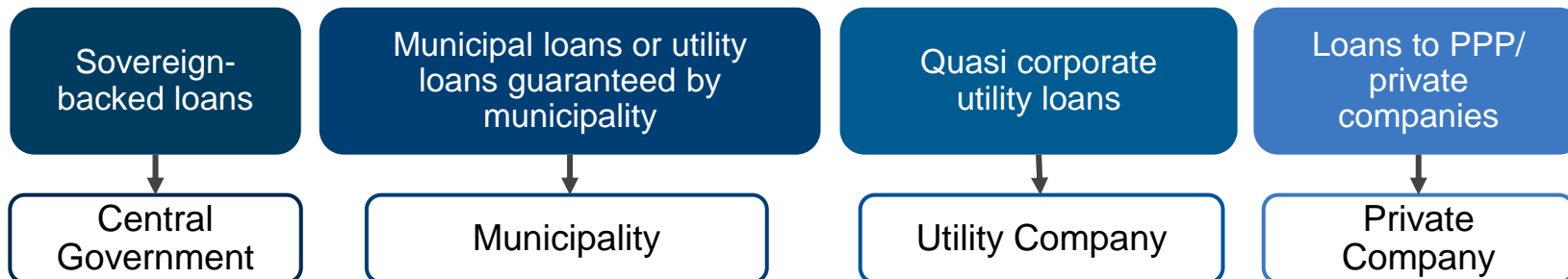
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Green City Infrastructure Investments

Financing Options



Investment Size

€ 2 million to € 150 million



GrCF – Tbilisi Bus



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EBRD Finance **€ 27 million**

GHG Reduced **2,000**
ton CO₂ eq / yr

The loan and grant financed 143 modern low floor CNG buses - now up and running on the streets of Tbilisi. The project included:

- GCAP preparation
- bus route restructuring study
- preparation of technical specifications
- gender advisory services
- corporate development governance

Supported by an E5P grant of € 7 million



GrCF – Batumi Bus



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EBRD Finance

€ 5.5 million

Supporting the City of Batumi to improve and modernise bus operations through the purchase of a new bus fleet of 10 electric and 20 diesel buses.

- First electric bus project for the Bank
- GCAP preparation
- Procurement support
- Corporate development and stakeholder participation programmes

Supported by an E5P grant of € 1.5 million



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GrCF – Chisinau Public Buildings



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EBRD Finance **€ 10 million**

GHG Reduced **4,000**
ton CO₂ eq / yr

Supporting the City of Chisinau in the renovation of up to 120 buildings, covering kindergartens, schools and hospitals.

- GCAP covenanted
- Utilising Energy Performance Contracts where savings will offset costs
- 2nd public buildings investment for EBRD

Supported by an E5P grant of € 5 million & EIB co-financing of € 10 million



GrCF – Banja Luka District Heating



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EBRD Finance **\$ 8.35 million**

GHG Reduced **45,750**
ton CO₂ eq / yr

Supporting the City of Banja Luka, in Bosnia and Herzegovina, for the purchase of an equity stake in a new district heating Company, which will convert expensive and polluting heavy fuel oil boilers to biomass.

- First non-sovereign municipal project in Bosnia and Herzegovina
- GCAP preparation
- City to adopt a new tariff structure.
- Company to adhere to EBRD's environmental and social requirements.



GrCF – Belgrade Green Boulevard



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EBRD Finance

€ 20 million

Supporting the City of Belgrade to reconstruct one of the busiest roads in its City centre, which includes tram tracks, refurbishment of the existing pavement structure, sidewalks, overhead contact lines and installation of new public lighting, traffic signals and management systems.

- GCAP preparation
- Procurement support



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EBRD Finance

€ 25 million

Supporting the City of Sarajevo to provide constant water supply and to reduce water losses and energy costs, by financing pipe replacement and new and more efficient pumps.

- GCAP preparation
- Capacity building through the implementation of a Financial and Operational Performance Improvement Plan (FOPIP).
- Implementation of a Public Service Contract (PSC)



EBRD Finance

€15 million

Provision of a loan of up to Ujesjelles Kanalizime Tirana ("UKT" or the "Company"), Tirana's Water & Wastewater Utility Company, for construction of a new water pipeline and extension of the capacity of Bovilla Water Treatment Plant.

- GCAP preparation
- preparation of a public service contract between UKT and the city of Tirana to improve predictability and accountability for UKT.



GrCF – Varna Climate Resilience Infra Project



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EBRD Finance

€ 10.16 million

Supporting the City of Varna for urban infrastructure upgrade, including roads, parking zone and electric vehicle charging stations

- GCAP preparation
- Upgrade will increase roads' flood resilience and reduce air pollution.
- All investments will have a positive environmental effect including by employing EU standards, reducing pollution and greenhouse gas emissions or improving resource efficiency



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GrCF – Izmir Metro Project II



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EBRD Finance **€ 10 million**

GHG Reduced **16,500**
ton CO₂ eq / yr

7.2km extension to the existing 19km Light Rail Transit system and the construction of seven new stations.

- Reduce motorisation and congestion, air and noise pollution, and traffic accidents.
- Enhance the interconnectivity of the existing metro system with the commuter rail system (“IZBAN”) to increase access from suburban areas to the centre of the City.



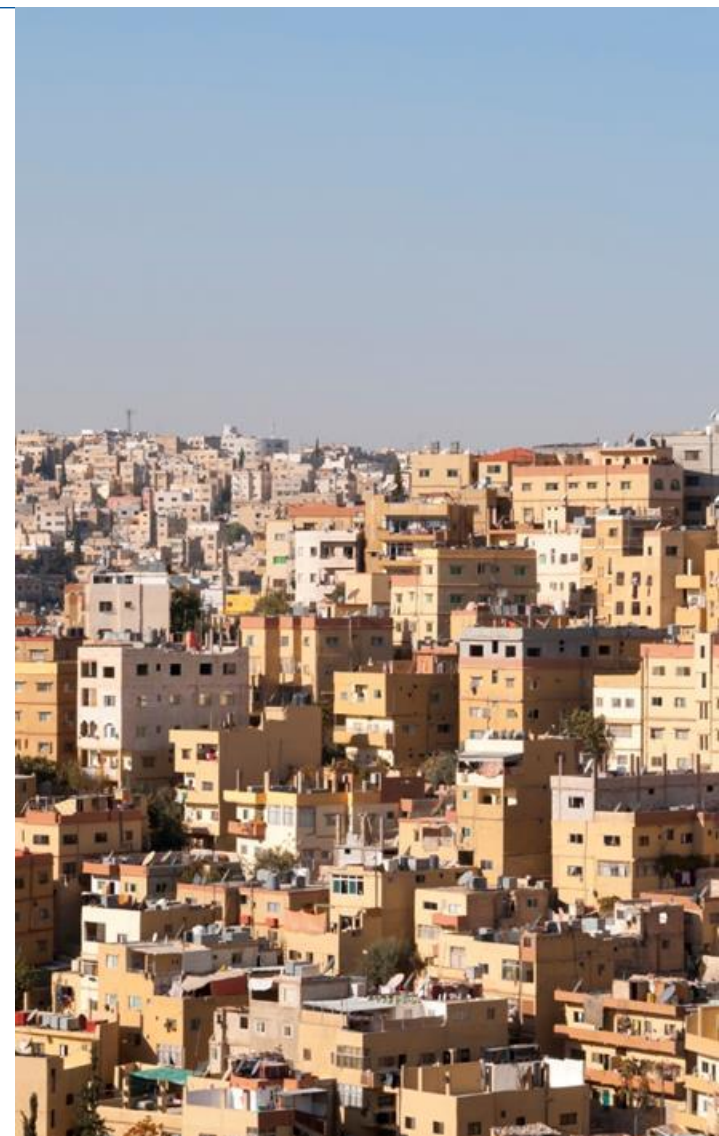
GrCF: Projects Signed



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11 Projects Signed

Chisinau Buildings	€10m
Sarajevo Water	€10m
Belgrade Green	€20m
Blvd	€5.5m
Batumi Bus	€8.2m
Banja Luka DH	€15m
UKT Tirana Water	€10m
Varna Resilience	€9.7m
Ulaanbaatar Waste	€20m
Lviv Solid Waste	€80m
Izmir Metro II	€10m
Zenica Hospital	
TOTAL	€213.7m



3 GCAPs adopted

Yerevan, Armenia
Tbilisi, Georgia
Tirana, Albania

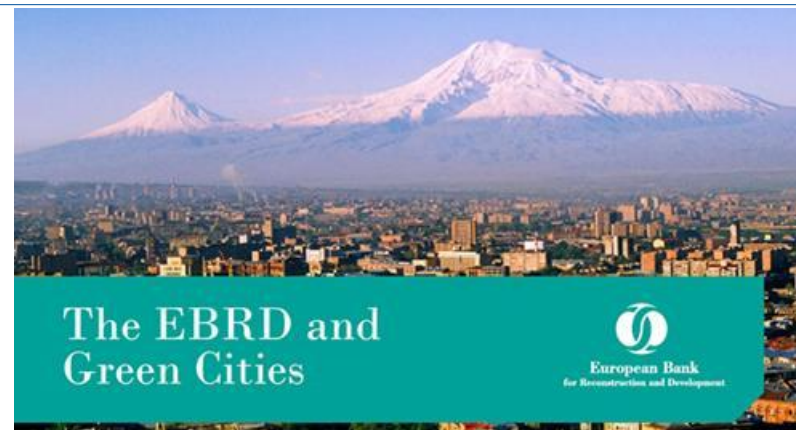
9 GCAPs underway

Minsk, Belarus
Sofia, Bulgaria
Banja Luka, BiH
Zenica, BiH
Belgrade, Serbia
Batumi, Georgia
Chisinau, Moldova
Gyumri, Armenia
Sarajevo, BiH



● Adopted (2018)
 ● Actively engaged
 ● Trigger project signed, GCAP preparing

International Collaboration



The EBRD and Green Cities

Building on extensive experience in Green City investments

What is the Green Cities Framework?

The Green Cities Framework combines strategic planning, technical assistance and donor support with EBRD finance to help cities invest in priority environmental infrastructure projects.

Why is the EBRD supporting Green Cities?

In 2015 the EBRD committed to scale up green finance to 40 per cent of its total business by 2020 and broaden the range of environmental projects through its Green Economy Transition approach. Given that cities are a significant source of environmental impact (local air, water pollution and waste generation), municipal investments will be a key channel for scaling up green finance.

Who is eligible for the Framework?

To be eligible for the Framework, a city's population must be at least 100,000. The city must also be willing to undertake an action plan where: (a) environmental challenges are benchmarked; (b) priority areas for environmental improvement are identified; (c) environmental objectives are defined; and (d) indicative investments to meet these objectives are determined.

Green City environmental infrastructure projects will cover district heating and cooling, urban transport and street lighting, water and wastewater, solid waste and energy efficiency in public buildings.

What does the EBRD's Green Cities Framework offer?

Alongside EBRD finance, cities that decide to engage with the EBRD in the Framework will receive assistance:

- to develop and implement a Green Cities Action Plan or update an existing one
- with identifying investment priorities and investments in a systematic way
- to secure donor support where appropriate.

Next steps

The Green Cities Framework is now up and running in Georgia and Armenia. The next phase will involve rolling it out to Moldova and then the Western Balkans, and other regions where demand and interest are confirmed.

To find out more about the EBRD's Green Cities Framework or EBRD finance, please contact:
Sue Goeransson (suegoeransson@ebrd.com),
Nigel Jollands (nigeljollands@ebrd.com) or
Lin O'Grady (lino@ebrd.com).

Since its inception, the EBRD has focused on financing sustainable municipal infrastructure and facilities management, investing a cumulative €6.2 billion in over 388 operations. The EBRD's team of municipal finance professionals have a strong implementation capacity with the ability to deliver results.

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EBRD Conference of Mayors

- 1st Conference of Mayors held in Stockholm June, 2018
- Showcased cities' successful planning and investments under the Framework
- Recognised new cities joining the Framework
- Representatives from cities exchanged their achievements and lessons learned for becoming greener cities



Contacts



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For all further enquiries, please contact:

Sue Goeransson
Director, Municipal and Environmental Infrastructure
GoeransS@ebrd.com

Lin O'Grady
Deputy Head, Municipal and Environmental Infrastructure
OGradyL@ebrd.com

Nigel Jollands
Lead, Policy Products
Energy Efficiency and Climate Change
JollandN@ebrd.com

