

Lebanon's priorities and needs for GCF readiness support

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Country programme

Republic of Lebanon

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Country programme

- The role of GCF financing to fill the funding gap of climate related policy implementation with **climate-resilient solutions tailored for Lebanon** through innovative, scalable, and replicable project and programme.
- In parallel, GCF can contribute towards **strengthening national regulatory frameworks** and policies to drive investments in climate-resilient and low-emission technologies and solutions, with additional social benefits, economic benefits, and environmental benefits.
- Through its private investment arm, the GCF funding can **leverage additional private investments**, and thus can provide a pathway to strengthen the partnership with the private sector, in investment as well as implementation of climate-related actions, leading to an accelerated implementation of Lebanon's NDC.

Full project pipeline

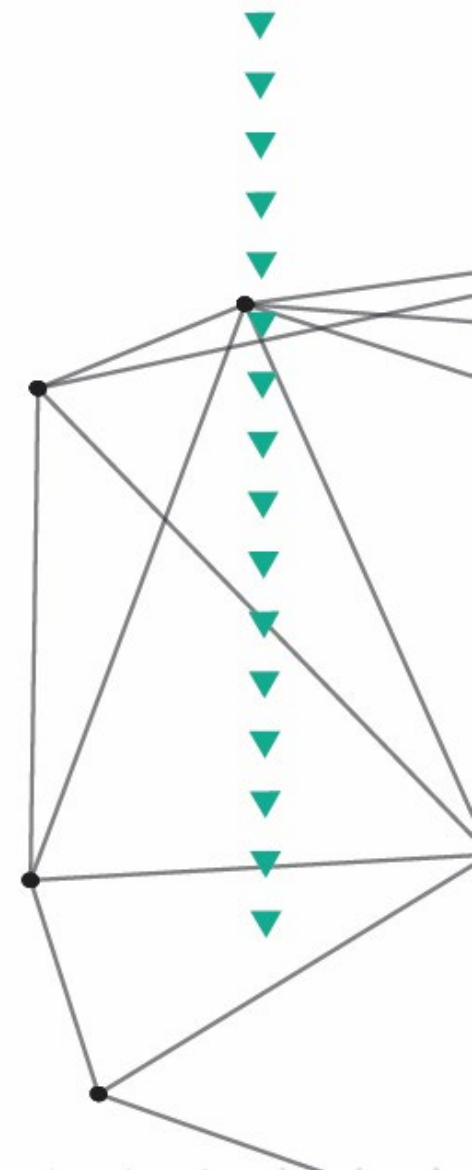


FULL PROJECTS	Sector	Accredited entity	Title and overview	Estimated Budget	
	1	Early Waning systems	UNEP	Enhancing Climate Information Services and Impact-Based Multi-Hazard Early Warning in Lebanon Climate Services (NFCS), climate observation and hazard forecasting systems, improve warning dissemination systems, disaster preparedness and response.	USD 20 Million Grant
	2	Agriculture, Irrigation	WFP	Building Climate Resilient Inclusive Food System (CRIFS) in Lebanon Irrigation, rehabilitation/upgrade processing facilities, use Renewable Energy, promotion of hydroponics, soil and water conservation, hillakes, agribusiness planning, upgrade meteo/weather stations	USD 50 Million Grant
	3	Health	AFD	Assessing and Enhancing the Climate Resilience of Lebanon's Healthcare System. Develop vulnerability and adaptation plans for health care facilities, promote and implement green resilient health facilities , including waste management and energy efficiency	USD 65 Million Grant EUR 15 Million from AFD grant
	4	Finance	Cedar Oxygen (PSAA)	Catalyzing Climate Finance through the Lebanon Green Investment Facility (LGIF) Mobilize and improve availability and access to green investment and climate finance for various sectors	USD 7 Million grant USD 50 Million loan USD 65 M Private Sector
	5	Water	FAO	Strengthening resilience to climate change risks through integrated watershed management in Lebanon Develop watershed management plans for Beirut and EL Assi, Urban/ territorial master plans , implementation of adaptation such as solarization of water, hill lakes, industrial wastewater, circular economy, reforestation, agriculture	USD 76 Million Grant

6	Agriculture, forestry	FAO	Enhancing climate resilience in Lebanon through improved territorial development and landscape management Institutional measures for climate-resilient productive ecosystems, territorial development and integrated landscape management in key areas	USD 40 Million Grant
7	Energy	UNIDO	Promoting renewable energy, energy efficiency and circular resource efficiency solutions for the sustainable recovery of Lebanon's industrial sector Demonstration of suitable technologies and financial business models, demonstration of RE/EE projects and circular projects, Finance strategy, project pipeline	USD 19.5 Million Grant 1:2 to 2:3 co-financing
8	Water	UNICEF	Localized climate-appropriate full-cycle water systems in remote locations Access to safe public water supply and wastewater management services, efficiency of service provision, Installation and maintenance of water supply and services	USD 30 Million Grant
9	Energy	TBD	Expanding the Beirut River Solar Snake to increase renewable energy integration in electricity provision Build solar panels over Beirut River and rehabilitate the national control center of EDL	USD 20 Million Grant

Readiness Pipeline

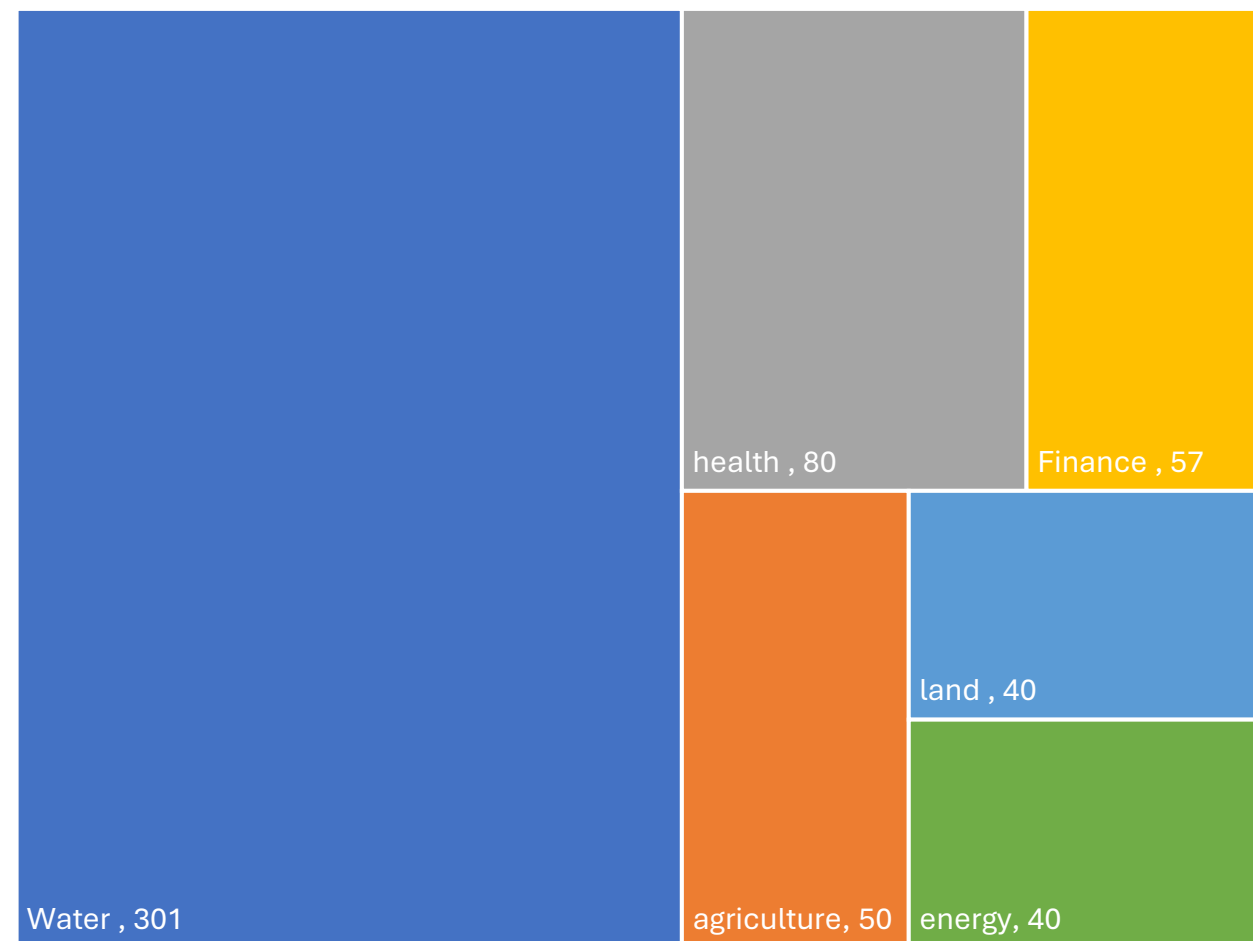
READINESS PROJECTS	Sector	Accredited entity	Title	Estimated Budget	
	1	Water and Energy	GWP	Strengthening national technical and institutional capacities in planning and resource mobilization for water climate resilience and energy transition Climate-resilient planning in the energy water and wastewater sectors, climate-proofing wastewater management plans, urban climate action, 3 concept notes for water and energy	USD 3 Million
	2	NDC	UNDP	Support the Development of Lebanon's NDC 3.0 by strengthening implementation and financial investment strategies, and enhancing national climate governance framework. Develop Lebanon's NDC 3.0 through enhancing institutional capacities, improving available information and providing tools for key public and private institutions to enhance planning processes and strategic frameworks for mobilizing climate investment for the country.	USD 1 Million



Priorities and needs

- Balance between mitigation and adaptation sectors (NDC and NAP).

Funding requests (in millions)



Sector	Context	Investment Priorities	Investment Need
Industry	Most industries in Lebanon use in-house generators, which consume considerable amounts of Gas/Diesel Oil, as a result of the intermittent electricity supply by EDL and constant power shortages. Emissions reductions in this sector are closely tied to improvements in green energy supply. The cement industry is also a major source of industrial emissions. ³¹	<ul style="list-style-type: none"> • “Greening” industrial expansion plans by meeting additional energy demand through renewable sources.³² <p>Aligned with LEDS objectives 3 and 7 Aligned with economy-wide, RE and EE targets of the NDC</p>	N/A
Transport	Heavily dependent on high-polluting private vehicles and based on poorly maintained infrastructure. ³³ This deficit was acknowledged in the 2018 Capital Investment Plan, which allocated almost one-third of funding to improvements in the transportation sector. ³⁴	<ul style="list-style-type: none"> • Infrastructure rehabilitation (including rail) • Expanding mass transit and alternative transport options (e.g. Bus Rapid Transit) • E-mobility or alternative fuels <p>Aligned with LEDS objective 2 Aligned with economy-wide, target of the NDC</p>	USD 5.6 billion ³⁵

Sector	Context	Investment Priorities	Investment Need
Waste and wastewater	<p>As set out in the 2017 Nationally Appropriate Mitigation Actions (NAMA) for the waste sector, there is an urgent need to find sustainable waste management solutions to reduce emissions from landfills.³⁶</p> <p>A lack of treatment facilities sees large volumes of wastewater discharged into the environment.³⁷</p>	<ul style="list-style-type: none"> • Landfill gas management (LFG), with priority sites identified in 2017 NAMA for the waste sector • Collection and utilization of gas from landfill sites and open dumps • Improvements to wastewater collection and treatment, including technical assistance as outlined in NDC Partnership Plan for the water sector <p>Aligned with LEDS objective 2 Aligned with economy-wide, target of the NDC Aligned with adaptation priority 3 in NDC</p>	USD 830-1,400 million ³⁸
Energy generation and access	<p>Energy generation shows the largest mitigation potential. The NDC sets an unconditional target of generating 18% of Lebanon's power demand (i.e. electricity demand) and 11% of its heat demand (in the building sector) from renewable energy sources by 2030.³⁹ This corresponds to a target of over 4,700 MW in additional RE capacity.⁴⁰ Moreover, Lebanon conditionally commits to generate 30% of its power and 16.5% of its heat demand from renewable energy sources in 2030.</p>	<ul style="list-style-type: none"> • Utility-scale RE programmes • Scaling up of distributed RE and EE (this requires policy and regulatory reforms, and capacity building)⁴¹ <p>Aligned with LEDS objective 1 Aligned with economy-wide and RE targets of the NDC</p>	USD 2.2 billion ⁴²

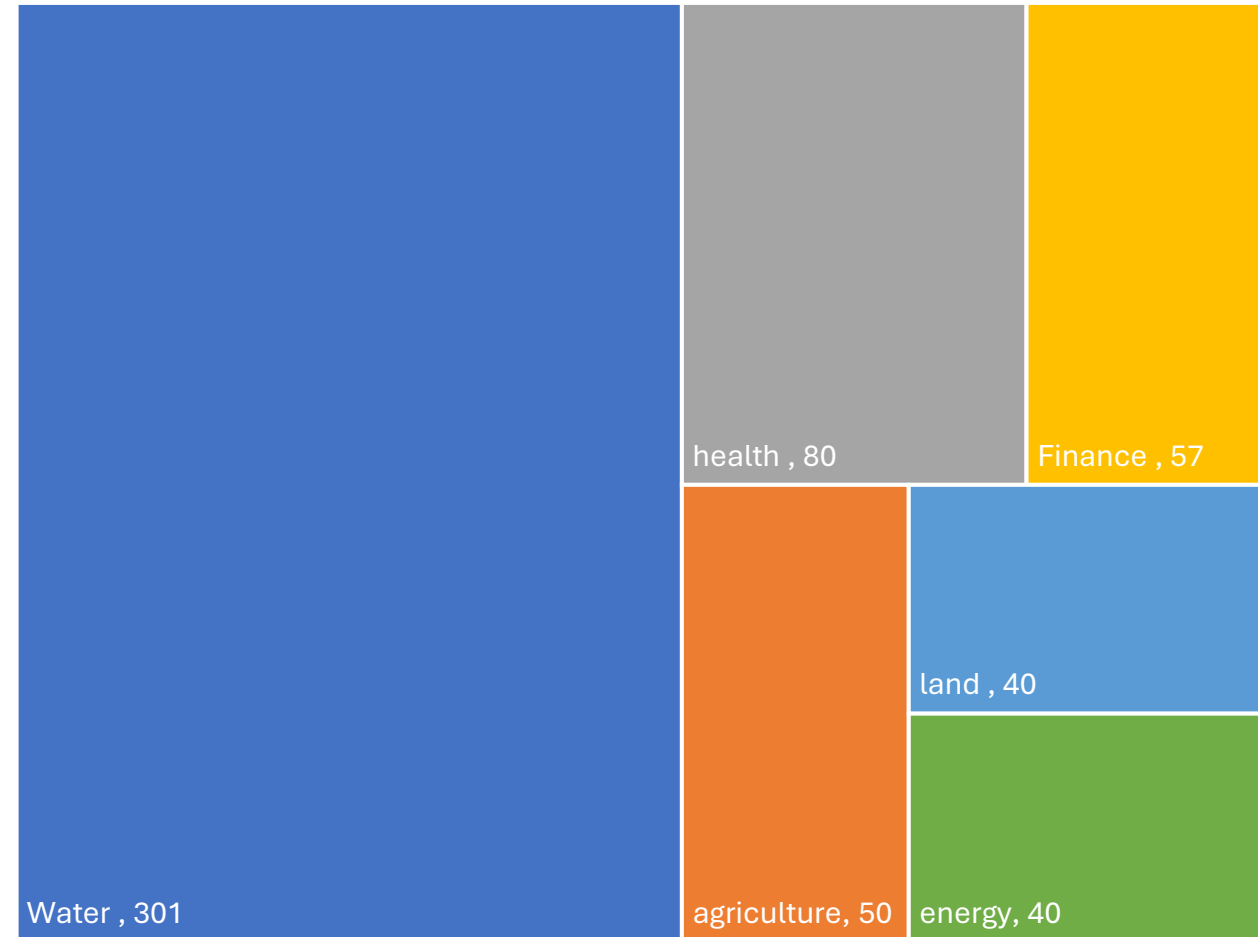
Sector	Context	Investment Priorities	Investment Need
Agriculture	The most pressing priorities are on the adaptation side, although these present considerable scope for cross-cutting mitigation benefits.	<ul style="list-style-type: none"> • Greater resource efficiency (water, fertilizers, seeds and fuel). <p>Aligned with LEDS objectives 7 and 8 Aligned with adaptation priorities 1, 3 and 4 in NDC</p>	USD 105 million ⁴⁵
Forests and land use	Lebanon is one of the most forested countries in the Middle East as a percentage of its land area, with forests and woodlands covering 23.4% of the country's surface. There are mitigation opportunities in reducing deforestation (including reducing emissions from land use interventions and fires), reforestation and sustainable forest management. Lebanon's NDC implementation plans include a National Forest Plan.	<ul style="list-style-type: none"> • Implementation of National Forest Plan • Afforestation (target of 70,000 ha.) <p>Aligned with LEDS objective 5 Aligned with economy-wide, target of the NDC Aligned with adaptation priorities 2 and 4 in NDC</p>	USD 540 million ⁴⁶
Energy efficiency	Lebanon has sought to address energy efficiency via its National Energy Efficiency Action Plan (NEEAP), ⁴⁸ which previously received financial support through the NEEREA initiative. ⁴⁶ However, new regulations and financial incentives are needed. ⁴⁷	<ul style="list-style-type: none"> • End-use efficiency measures, which would target buildings, industry, SMEs, agriculture, public services and facilities • Prioritization of EE in the reconstruction of buildings and infrastructure damaged by the Beirut port explosion <p>Aligned with LEDS objective 1 Aligned with economy-wide and EE target of the NDC</p>	USD 1.3 billion ⁴⁸

Tourism	<p>In winter, the decrease in the number of snow days poses a direct threat to winter tourism. In the summer, the likely increase in the frequency of forest fires poses a threat to Lebanon's growing eco-tourism sector.</p> <p>Challenges facing ecotourism in Lebanon include overdevelopment, pollution, inadequate infrastructure, and limited support for small businesses.</p>	<ul style="list-style-type: none"> ● Conservation and enhancement of Lebanon's main elements of attraction, specifically its socio-cultural and natural resources, which are integral to its distinctive characteristics and identity. ● Boost the economic value of Lebanon's tourism industry while reducing emissions ● Create a brand image to position and differentiate Lebanon as a sustainable tourism destination <p>Aligned with economy-wide target of the NDC Aligned with LEDS objective 5 Aligned with adaptation priorities 2, 4, 5 and 7 in NDC</p>	N/A
Health	<p>Climate change would exacerbate the challenges faced by Lebanon's healthcare system. In addition to the increased climate-related mortality and morbidity, health care facilities are expected to face increased challenges coping with climate-related risks, such as droughts, extreme temperatures, fires, and changed patterns of climate-sensitive diseases which will affect their physical and operational capacity.</p>	<ul style="list-style-type: none"> ● Implementation of the National Environmental health strategy ● Assessment of climate change impact on public health ● Increase climate resilience of health care institutions <p>Aligned with LEDS objective 9 Aligned with adaptation priority 6 of the NDC</p>	N/A

Priorities and needs

- Balance between mitigation and adaptation sectors (NDC and NAP).
- Synergies and coordination between initiatives
- Priorities for national project activities
- Ownership of leading Ministries

Funding requests (in millions)



Project Governance is key



Who is the leading Ministry?



Who are the implementing partners? LARI, Meteo, CNRS, microcredit institutions



Who are the beneficiaries? Farmer associations, PHC, insurance companies



Who will review and validate reports?



How are they involved in project design and implementation?

Key achievement from Readiness

NDA strengthening and country programming support for Lebanon with South Centre – 800K

- Established the Country Programme → resulting in a clear roadmap forward
- Engaged with private sector → resulting in the LGIF with Cedar Oxygen
- Established the NOP → resulting in the Decision 1/1 2025 on NOP for Lebanon
- Built capacity of Ministry of Environment as NDA

The Green Climate Fund
for Lebanon

SHIFTING TO GREEN TO FOSTER GROWTH

**THE NATIONAL
PRIVATE SECTOR
DIALOGUE ON
CLIMATE FINANCE**



Key achievements from Readiness

NATIONAL

LEBANON'S NATIONAL
ADAPTATION PLAN

STRATEGY & ROADMAP

Advancing climate resilience in Lebanon

Increased climate resilience planning for municipal water resources in Lebanon (National Adaptation Plan – NAP) with UNDP – 2.1 M

- Prepared First CCA strategy and NAP → Submitted to UNFCCC in December 2025
- Conduct climate vulnerability and assessment studies to Metn industrial area and apple supply chain in Nahr el Kaleb area → in progress
- Develop a course on CCA with Lebanese universities for executive public officials → in progress



Key achievements from Readiness

Support the Development of Lebanon's NDC 3.0 by strengthening implementation and financial investment strategies, and enhancing national climate governance framework with UNDP – 1 M

- Developed Lebanon's NDC 3.0. → resulting in its submission in September 2023
- Prepare NDC implementation and financing plan → in progress
- Prepare the climate change law → in progress
- Prepare list of bankable projects → in progress



Key achievements from Readiness

REGIONAL

Global Subnational Climate Fund with Pegasus

150 M, 42 countries – Implementation of approximately low carbon and resilient infrastructure projects through direct equity investment.

No achievement



Key achievement from Readiness

REGIONAL

Leveraging the Private Sector for Increased Climate Investment and Strengthened Partnerships in the West Asia Region with ISDB– 2.6 Million

- Build capacity of nominated to meet the GCF's accreditation standards and develop a pipeline of projects
- Draft strategies for attracting private sector investment
- Develop project proposal, most probably regional
- Establish partnerships between countries in the regions



Thank you.

