



CTCN

CLIMATE TECHNOLOGY CENTRE & NETWORK
UNFCCC Technology Mechanism



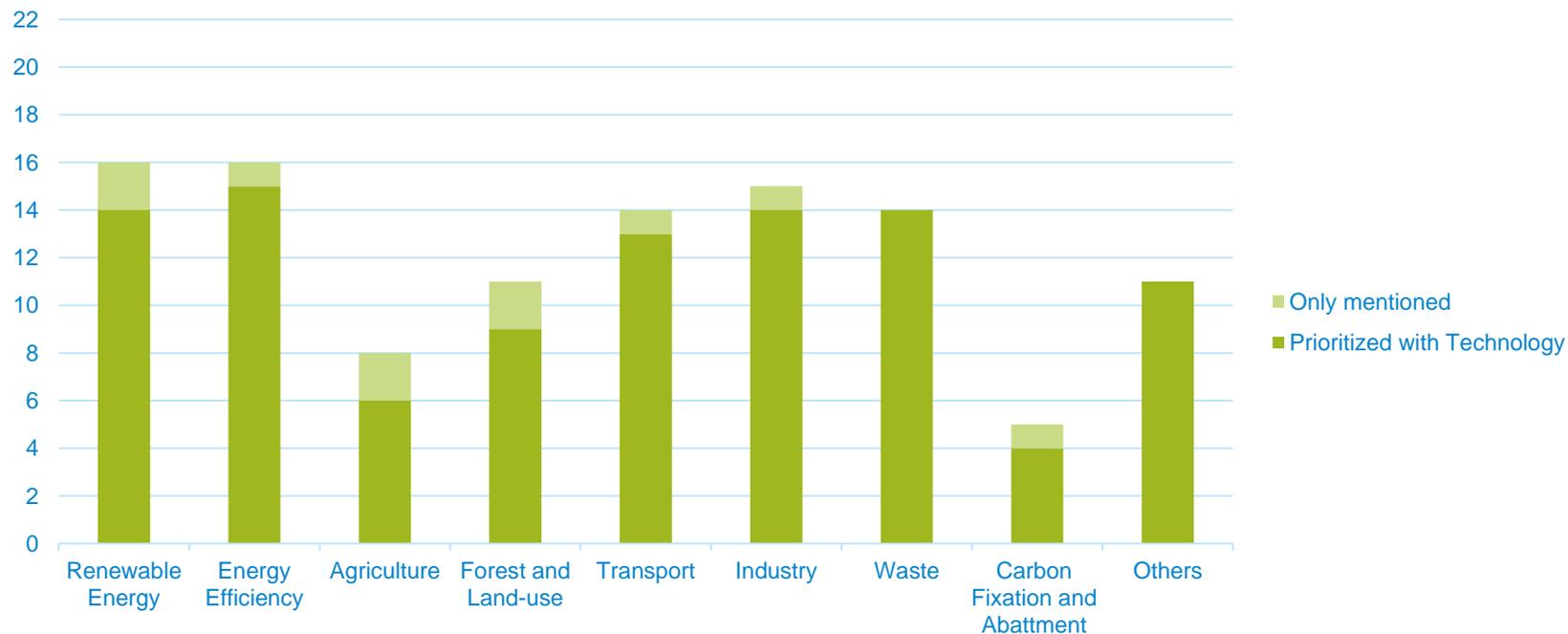
Regional priorities and opportunities for national development of climate technologies

Green Technology Investments and Access to Sustainable Financing in the Arab Region

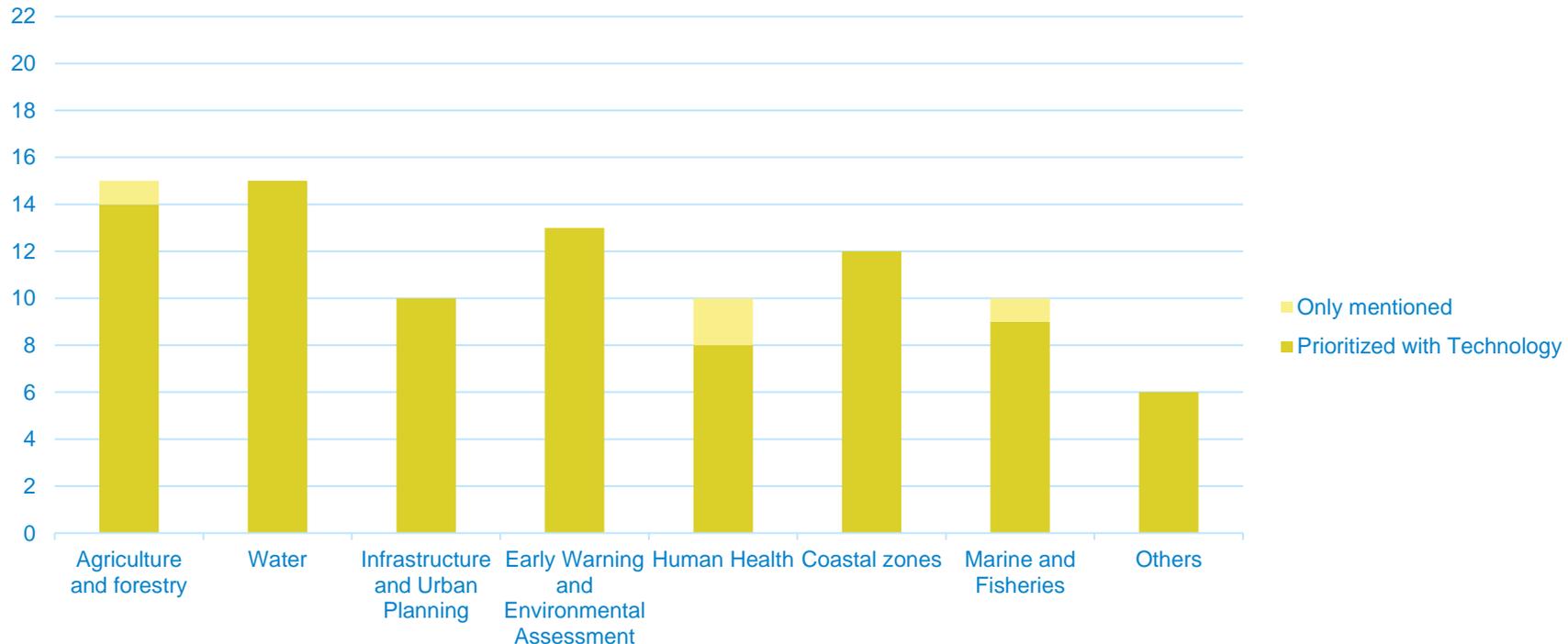
4-6 March 2019, Beirut, Lebanon



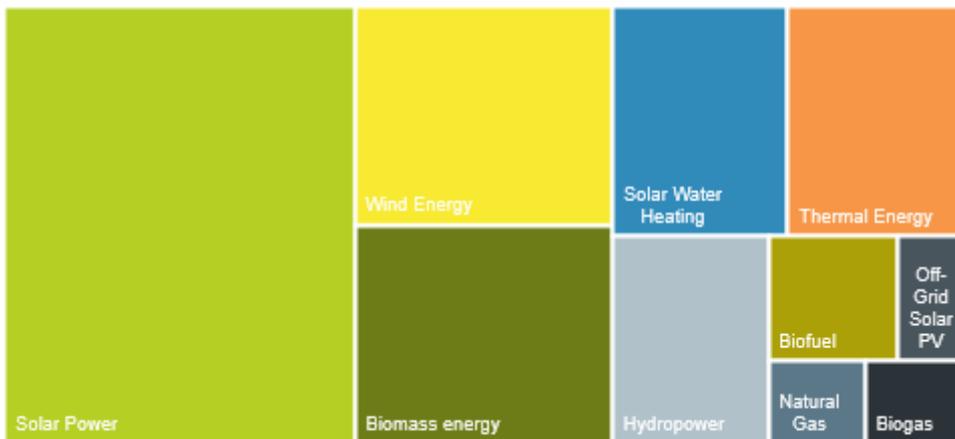
Regional mitigation priorities from NDCs



Regional adaptation priorities from NDCs



Regional mitigation priorities from NDCs



Renewable energy technologies

Energy efficiency technologies



Regional mitigation priorities from NDCs



Technologies in industry



Regional adaptation priorities from NDCs

Technologies for water management



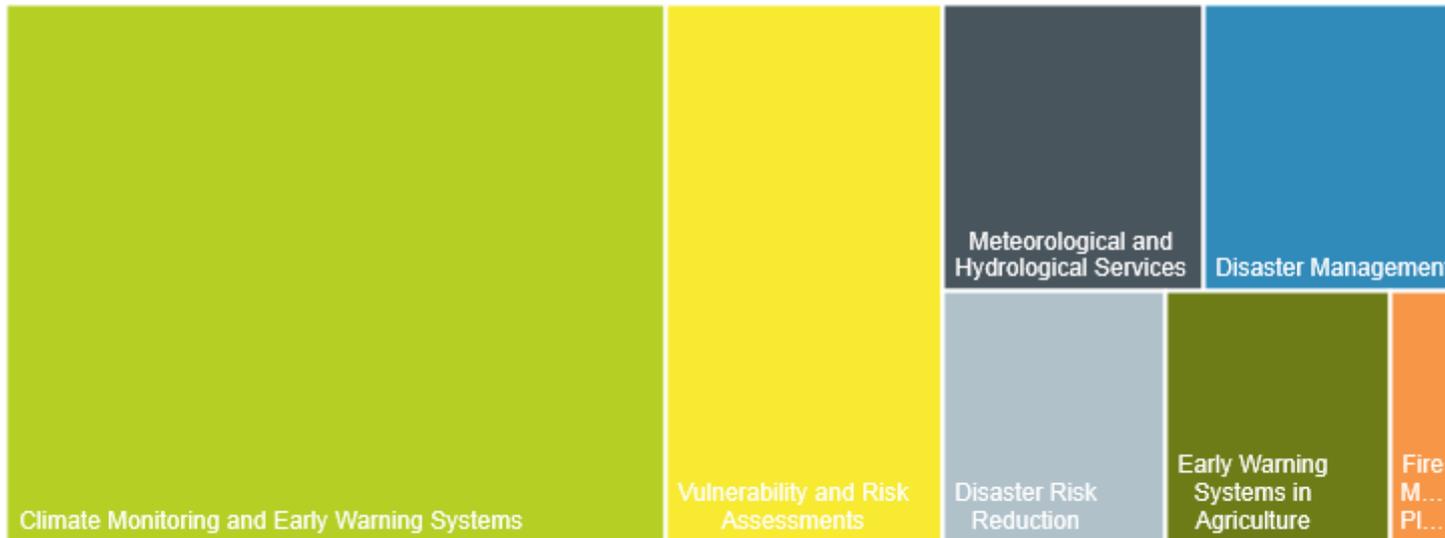
Regional adaptation priorities from NDCs

Technologies for agriculture



Regional adaptation priorities from NDCs

Technologies for early warning and disaster management



Technology support to achieve mitigation targets

Solar technologies

Deployment of solar energy technology in Togo's rural areas
Sustainable domestic water pumping using solar photovoltaic in Tanzania

Wind technologies

Feasibility study and development of action plan to promote manufacture of components of small power turbines and implementation of pilot project in Benin

Waste technologies

Waste heat recovery combined with mineral carbon capture and utilization in cement industry of South Africa
Bio-waste minimization and valorisation for low carbon production in rice sector in Vietnam
Development of anaerobic digester technology for palm oil EFB waste in Indonesia
Feasibility study to use waste as fuel for cement factories in Mozambique

Industry technologies

Support the replacement of F-refrigerants used in refrigeration system in food processing production and exports (fruits and vegetables) in Chile
Pilot demonstration of ECSO model for GHG emission reduction in the cement sector in Vietnam
Benchmarking energy and GHG intensity in metal industry in Thailand

Technology support to achieve adaptation targets

Water technologies:

Transformative water harvesting plan in Namibia

Research and business approaches for low cost technologies for sustainable water service delivery in Kenya

Determination and evaluation of river basin management and environmental flow of the Tebicuary river priority basin in Paraguay

Agriculture technologies

Development of a climate-smart agriculture manual for education in Zimbabwe

Piloting agro-meteorological information system for producers to adapt to climate change effects in Benin

Formulation of a national agroforestry policy in Nepal

Capacity building for technology for efficient use of resources in agricultural sector of Thailand

Coastal zones

Identification, characterization and exploitation of potential offshore sand deposits in Mauritius

Integrated river and coastal management in Jakarta, Indonesia

Early warning and disaster management

Early drought warning and forecasting for climate variability in agriculture in Ghana

Assessment of flood mitigation measures in Tbilisi based on review flow analysis and climate projections in Georgia

Community based early warning system through phones in Santo Domingo, Dominican Republic

Nexus approach water / energy

Piloting industrial energy efficiency and efficient water utilisation in selected sectors of Zimbabwe

Water-energy efficiency and self generation plant in Solomon Island

In the region, the CTCN has been supporting the following countries:

- **Iraq** Technical guidance and support for conducting Technology Needs Assessment
- **Jordan** Capacity building in prepare project proposal to access funding + Support the accreditation of JSMO Energy Efficiency Lighting Laboratory
- **Lebanon** Development and enforcement of an efficient appliance strategy
- **Palestine** Technology road map for the implementation of climate action plans (INCR, NAP and NDC)
- **Tunisia** Capacity building to gain expertise in efficient lighting systems

Opportunities for support to technology deployment

The CTCN is available to countries to support scale up of the technologies identifies in climate objectives:

- ✓ **Fast Technical Assistance:** international expert advice (remotely or through short mission in country)
- ✓ **Technical Assistance:** 6 months to a year, from Consortium and network members, assistance worth max USD 250,000
- ✓ **Technical Assistance through GCF Readiness:** Support to the country to access GCF readiness funds (Max \$1M/country/year.)



Technical Assistance: How it works



- The CTCN identify the right expert organizations in its network, depending on the needs and technology barrier identified
- Support span the technology cycle (research, identification, piloting, feasibility or financing of technology)
- Any organization from developing countries can express need (ministry, city, private company, research organization, etc.)
- Request must be in line with national priorities and signed by official focal point of the CTCN – the National Designated Entity
- Design of assistance together with the applicant organization, can be done in a few months
- Possibility of multi-country request for common needs or transboundary issues.

CTCN Fast Technical Assistance (FTA)



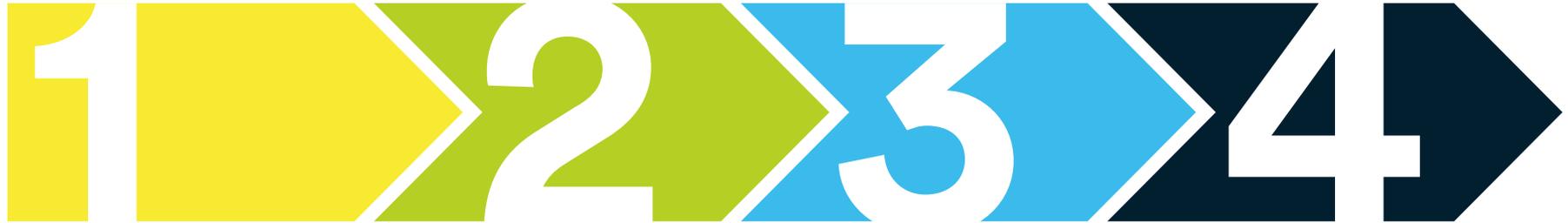
Developing countries contact their NDE to request climate technology assistance.

NDE confirms alignment of the request with national climate priorities and sends to CTCN.

CTCN prepares TORs to select the international expert in collaboration with the NDE and with the requesting organization

CTC selects independent expert who will implement the assistance

CTCN Regular Technical Assistance Process



Developing countries contact their NDE to request climate technology assistance.

NDE confirms alignment of the request with national climate priorities and sends to CTCN.

CTCN-led stakeholder collaboration on development of a TA Response Plan.

CTC selects Consortium or Network member to implement the technology solution.

CTCN technical assistance through GCF Readiness funding

GCF Secretariat approves
Readiness proposal.



Developing countries
contact their NDE to
request climate
technology assistance.

NDE/NDA engagement.

NDE confirms
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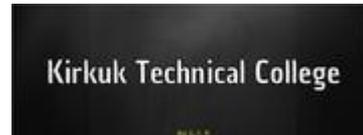
CTCN-led stakeholder
collaboration on
development of a TA
Response Plan that
forms the basis for the
GCF Readiness
proposal.

CTC selects Consortium
or Network member to
implement the GCF
Readiness proposal.

GCF disbursement of funds
prior to CTCN engagement
with winner of bid process.

Opportunities in the region

- 7 network members based in the region, from Egypt, Iraq, Palestine, Sudan, Tunisia, UAE
- Private companies, public sector, non-governmental and academic institutions
- Expertise in renewable energy, energy efficiency, waste management, industry, agriculture, forestry water, infrastructure and urban planning, early warning and environmental assessment, coastal zones



Experience from the Region

- **Palestine** Technology road map for the implementation of climate action plans (INCR, NAP and NDC)
- **Tunisia** Capacity building to gain expertise in efficient lighting systems

Guiding questions

- How do you coordinate and prioritize at country level to seek financial and technical assistance and to agree on pipeline of climate projects?
- What has prevented your countries from seeking support from the CTCN to reach your climate targets?
- What are the priority needs related to climate technologies that you would need support on?



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