

Setting a Global Innovation Agenda CTCN & Collaborative RD&D

IRENA Innovation Week
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www.ctc-n.org

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CTCN AB



Introducing the CTCN

- ✦ UNFCCC Technology Mechanism created in 2009
- ✦ Climate Technology Centre and Network (operational) elaborated in 2010 at COP16
 - ✦ Based in Copenhagen, began operations in 2014
 - ✦ Responding to needs of developing countries
- ✦ CTCN: Networks of climate change experts in service of identified developing country needs
 - ✦ 11 Regional Consortium Partners
 - ✦ 150+ Network members
 - ✦ Work at the request of developing countries to provide information, capacity building, technical expertise

- Bridging gap between planning of climate technology actions and implementation
- Supporting developing countries to scale-up and replicate climate technology actions
- Focus is on enhancing our efforts to support countries in the implementation of the 2015 Agreement and support them to transition onto low-carbon and climate resilient development pathways

- ✦ Structured to match developing country climate technology requirements with private sector expertise:
 1. Technical Assistance
 - ✦ >100 country-driven response plans with 60 countries
 - ✦ 12% monthly growth since summer 2015
 2. Capacity Building
 - ✦ Regional Forums linking country focal points, private sector experts & GCF representatives
 - ✦ LDC Incubator Programme, expanding to SIDS
 3. Knowledge Management + Networking
 - ✦ Webinars, information portal, sharing best practice

- ✦ The Paris Agreement “request(s) the TEC and the CTCN “...to undertake further work relating to, inter alia, technology RD&D.”

- ✦ Previous reference included:
 - “Development and enhancement of endogenous capacities and technologies...including cooperative RD&D programmes...”

 - “...importance of making...CTCN fully operational...to promote and enhance the RD&D and diffusion of ESTs...”

 - “Facilitating RD&D of new climate-friendly technologies...”

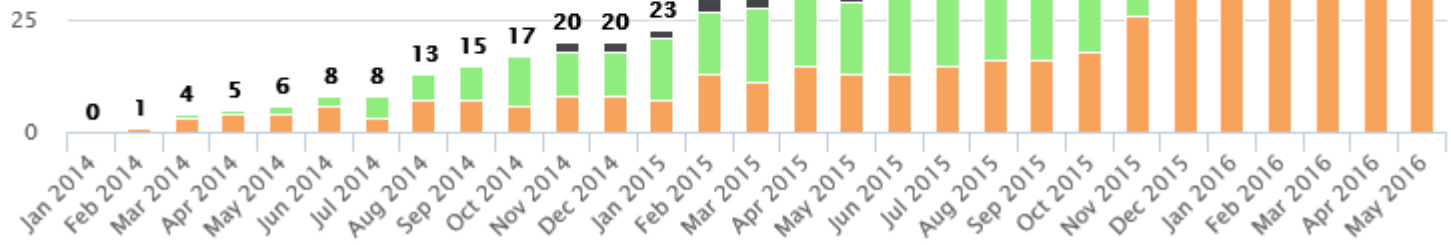
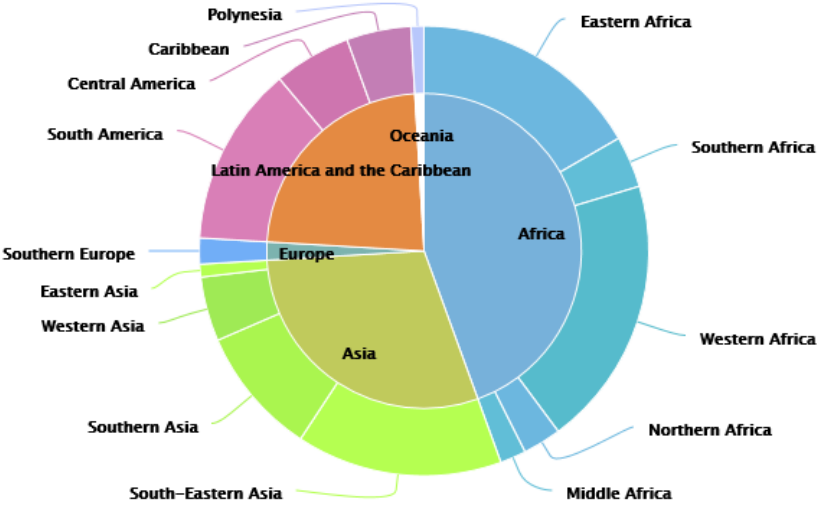
- ✦ At its Sixth Meeting (AB6; 9/2015) the CTCN Advisory Board formed a RD&D Task Force to explore RD&D
- ✦ Work is still in preliminary stages.
 - ✦ RD&D TF has met twice and reported to AB7 (4/2016) on initial progress
- ✦ 2016 agreed to collaborate with TEC in terms of RD&D
- ✦ Enhanced action prioritizing technologies that are substantial, scalable and replicable

✦ CTCN Requests for Technical Assistance

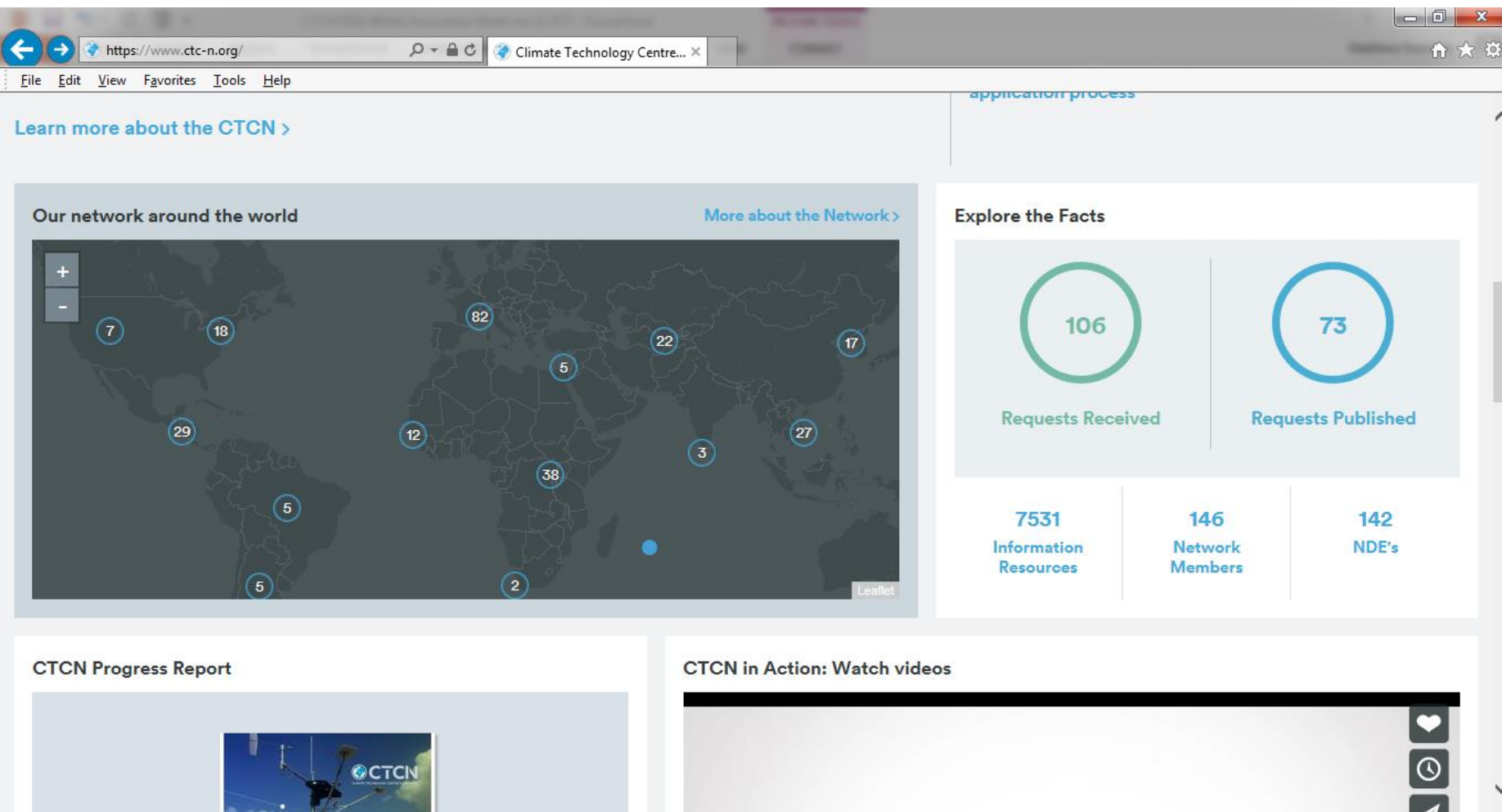
- 2 with clear RD&D focus
 - Indonesia – collaborative RD&D for development of anaerobic digester technology for palm oil empty fruit bunch (EFB) in Indonesia
 - Colombia - Development of a mechanical-biological treatment pilot project to process waste NAMA.
- 10 others with a marginal RD&D component

Expectation is that RD&D will feature more

Requests by region



Completed Implementation Design Review



https://www.ctc-n.org/ Climate Technology Centre...

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Our network around the world

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Region	Count
North America	7
South America	5
Europe	82
Africa	12
Asia	22
Australia	3
Other	2

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Explore the Facts


106 Requests Received	73 Requests Published	
7531 Information Resources	146 Network Members	142 NDE's

CTCN Progress Report



UNEP

CTCN in Action: Watch videos



Heart, Clock, Refresh icons

- ✦ Gambia: Greening the national economy through promotion of the use and localisation of renewable energy technologies
- ✦ Algeria: Technical assistance for the establishment of a laboratory for accreditation and quality control of photovoltaic modules and Technical assistance on the design and construction of a ground-based photovoltaic plant of 1MW rated capacity
- ✦ Tanzania : Promoting the sustainable use of solar photovoltaic technology in Tanzania
- ✦ Benin: Feasibility study and development of an action plan to promote the manufacture of components of small power wind turbines and implementation of a pilot project
- ✦ Uganda : Formulating Geothermal Energy Policy, Legal and Regulatory Framework
- ✦ Iran : Micro Combined Heat and Power Technology

- ✦ Technology Needs Assessments/Technology Action Plans analysis
 - A sample of TAPs was reviewed (LDCs)
 - 1 TAP with a clear RD&D focus
 - Bangladesh – Establishment of a special agricultural R&D centre
 - 25 TAPs (~25% of those reviewed) had a RD&D component to adjust or adapt an existing technology to the local context
 - Almost all TAPs reviewed had a marginal RD&D component

✦ CTCN Consortium Partners:

- Most CTCN Consortium Partners are research-based organizations and have RD&D capacity

✦ CTCN Network members:

- One quarter of Network members are categorized as research and academic institutions



Key Messages & Next Steps

- ✦ CTCN is ready to provide technical assistance for applied RD&D activities including technology innovation:
 - The modality of CTCN technical assistance is through requests from developing country NDEs
 - With a broad TA scope that covers both hard and soft technologies including pilot demonstration at a small scale
 - CTCN technical assistance can help adapt technologies to suit the local conditions to remove barriers to RD&D

- ✦ Business models and appropriate tariffs for microgrid, storage
- ✦ RD&D in terms of energy storage
- ✦ Emission standards for electric vehicles
- ✦ Appropriate regulatory frameworks and non-technical policies
- ✦ Standardisation of monitoring and verification
- ✦ Socio-economic frameworks beyond centralized grid
- ✦ Consumer in new market design
- ✦ R&D into flexibility and balancing of market, including demand side response
- ✦ Co-operation and sharing best practices in terms of energy planning
- ✦ Standards and QA schemes

- ✦ The findings from the Innovation Week could be used in interactions with the NDEs during Regional Fora

Thank you



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