Work of the Technology Executive Committee on distributed renewable electricity generation:
Policy findings for facilitating technology deployment

Workshop – Supporting deployment of low-carbon technologies in the ETC and SEMED regions
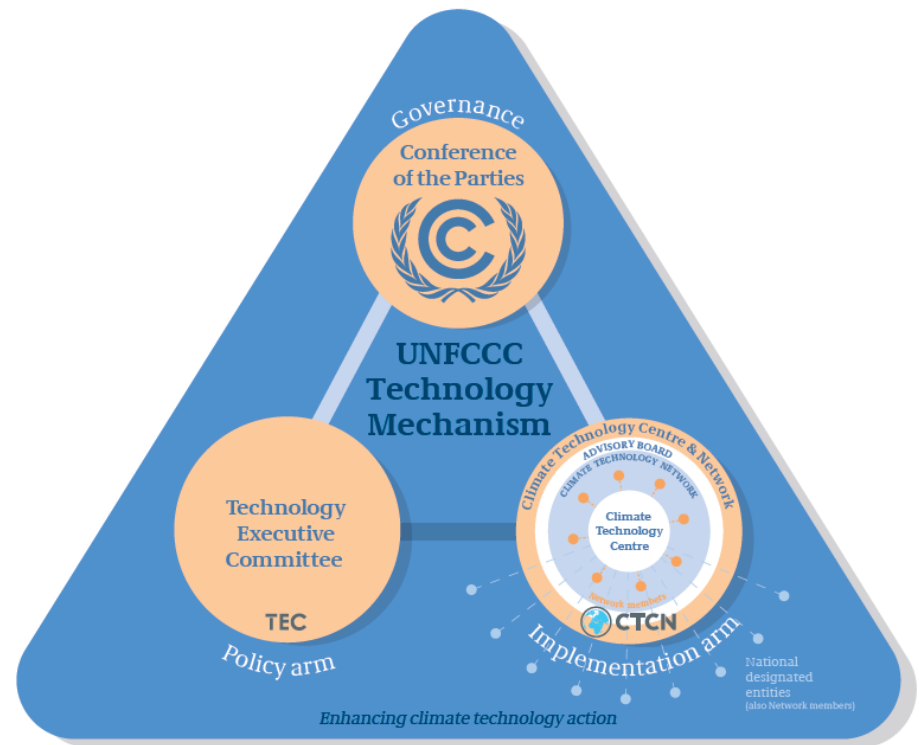Istanbul, Turkey, 15-16 June 2015

Mr. Pierre Bouchard
Programme Officer, Technology Policy and Strategy
UNFCCC secretariat

Technology Executive Committee (TEC)

➢ **Policy component of the Technology Mechanism**, established in 2010 under the United Nations Framework Convention on Climate Change (UNFCCC)

a) Provides policy recommendations to Parties to the UNFCCC to enhance action on development and transfer of technology on both adaptation and mitigation
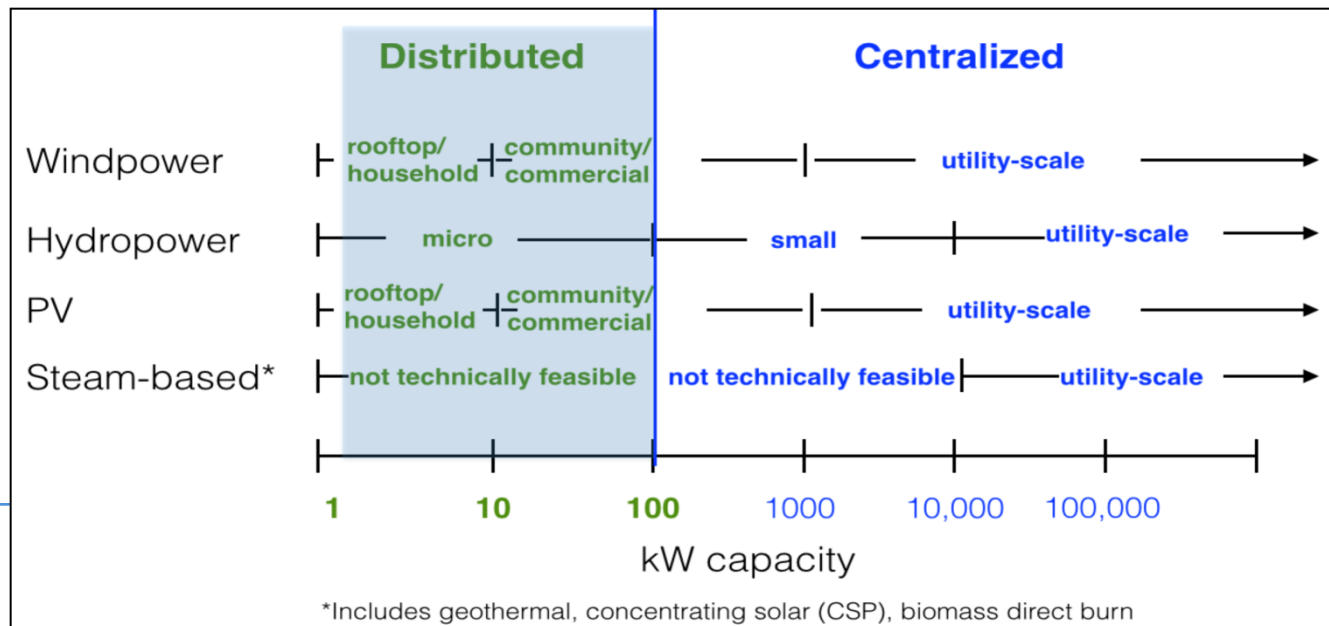

CTCN: Climate Technology Centre and Network

Overview – What is "distributed generation"?

➤ Electricity produced at large power plants and delivered to users via transmission and distribution system: Centralized systems

➤ **Use of smaller sources (1 kW to 100 kW, or more) located at, or near users: Decentralized or <u>Distributed systems</u>**

- Can be off-grid, nano-, micro- or mini-grids
- Can be connected to centralized grids

	Distributed	Centralized
Windpower	rooftop/household + community/commercial	utility-scale
Hydropower	micro	small — utility-scale
PV	rooftop/household + community/commercial	utility-scale
Steam-based*	not technically feasible	not technically feasible — utility-scale

1   10   100   1000   10,000   100,000

kW capacity

*Includes geothermal, concentrating solar (CSP), biomass direct burn

3

Policy findings for deployment of distributed renewable
(for the TEC Brief)

Technical

➢ Role of technology standardization while taking into account needs to adapt technologies to local conditions

➢ Importance of integrated planning for projected level of service, and better understanding customers/communities' needs and grid's capacity to integrate distributed renewable

➢ Provision of incentives and support for operation and maintenance (O&M)

Capacity-building

➢ Strong need to build and strengthen in-country human capabilities and institutions at various levels:

- Public (governments, power utilities, planning agencies, financiers)
- Private sector (consultants, project developers, financiers)
- Local communities
- Research and academia

Policy findings for deployment of distributed renewable
(for the TEC Brief)

Financing

➢ Provide access to affordable financing

➢ Provide financial incentives and certainty around revenues

➢ Reassess import duties and taxes

Cross-cutting

➢ Development, implementation, monitoring and fine-tuning of stable, transparent, and effective policy framework

➢ Reassessment of the power utility/public and private roles in electricity supply

➢ Promote and facilitate the implementation of effective innovative business models

Thank you!

More information on the Technology Executive Committee:
http://unfccc.int/ttclear/pages/tec_home.html
(TT:CLEAR)

Mr. Pierre Bouchard
Programme Officer, Technology Policy and Strategy
UNFCCC secretariat