Regional Technical Expert Meetings on Mitigation

Organized in conjunction with the Asia-Pacific Climate Week 2019

Organizer: UNFCCC secretariat in collaboration with the Technology Executive Committee, the Climate Technology Centre and Network

**Decentralized solutions for smart energy and water use in the agri-food chain**

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| **Date** | **Time** | **Venue** |
| 06 September 2019 | 11:00-12:40 | UNESCAP, Bangkok, Thailand |

The agri-food systems are largely reliant upon conventional energy sources, consume approximately 30% of the world’s energy supply and account for about 70 percent of all water withdrawals globally. This sector contributes to around 22 per cent of today’s greenhouse gas emissions. Reducing agriculture’s carbon footprint and improving agriculture’s water management is thus central to limiting climate change, ensuring energy security and achieving sustainable development. There is an opportunity to decarbonize the agri-food chain through renewable energy, water efficiency and innovations in the areas of technology, traditional know how’s as well as policy, investments and capacity building.

This session, with the help of high-impact case studies/examples and input from a diverse range of experts, will analyse the opportunities presented by the technological solutions and innovative approaches and their challenges. The focus is on solutions that are actionable in the short term for the Asia Pacific region. Participants are expected to discuss and share experiences on the necessary policy environment, best practices in fostering partnerships and need of capacity building and accessing financial resources for the replication and upscaling of such solutions.

The 90-minute session will have case study presentations followed by a moderated roundtable discussion, which shall be structured as follows:

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| 05’ | Brief introduction of the topic and speakers by the moderator * **Mareer Mohamed HUSNY,** Assistant Director, Ministry of Environment and Energy, Maldives

<Email: mareer.husny@environment.gov.mv> |
| 05’ | Welcome remarks * **Ovais Sarmad,** Deputy Executive Secretary of the United Nations Framework Convention on Climate Change (UNFCCC)
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| 05’ | Opening remarks * **Dinara Gershinkova,** Chair of the Technology Executive Committee

<Email: Dinara.Gershinkova@rusal.com>  |
| 30’ | **3 case studies**To set the scene and ensure maximum engagement during the session, the presenters of case studies/examples will be asked to address the below questions related to **learning from what works** and **where we are** regarding the current state of innovation in renewable energy sources and technologies in the agri-food chain: * What solutions/innovations are available/used to better manage energy and water use in the agri-food chain?
* How these solutions have benefitted the agri-food chain, including emission reductions and sustainable development benefits?
* What can Parties and non-Party stakeholders learn from these solutions, including how the enablers were nurtured and challenges/barriers were overcome to result in emission reductions and sustainable development co-benefits?

**Case study presenters:** * **Pratap Thapa,** Co-founder and Commercial Director, aQysta, Nepal

<Email: pratap@aqysta.com> * **Gaurav Kumar,** Co-founder and Director, Claro Energy Pvt Ltd, India

<Email: gaurav@claroenergy.in> * **Tevita Tukunga,** Director for Energy Department, Ministry of Meteorology, Energy, Information, Disaster, Environment, Climate Change, Communication (MEIDECC), Tonga

<Email: ttukunga@gmail.com>  |
| 10’ | **Quick Q/A on case studies**  |
| 25’ | **Moderated roundtable discussion based on the case study presentations and guiding questions** The moderated round table discussion will delve into discussing **what do we want** to achieve in terms of decarbonizing the agri-food chain, and **how do we get there.** * What should be the vision/goal in terms of harnessing mitigation potential and sustainable development co-benefits in the agri-food chain, also in the context of enhancing mitigation ambition of countries? What it takes to realize such vision/goal?
* What are the specific financial, technology and capacity building resources necessary to upscale and replicate innovative and decentralized solutions in the agri-food chain in the Asia Pacific region, that will contribute to achieve vision/goal discussed in the abovementioned questions?
* What are the ways forward and necessary actions to be taken by Parties and non-Party stakeholders to meet identified financial, technological and capacity building needs, including through regional mitigation initiatives/partnership?

**Ice-breaking for roundtable discussion:** * **Tomasz Chruszczow ,** High-level Climate Action Champion of Poland, TBD
* **Private sector perspective ,**TBD
* **Financial institution perspective,** TBD

**Contributors for roundtable discussion:** * All the previous speakers
* Audience
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| 5’ | Final summary/wrap-up by the moderator |
| 5’ | Closing remarks * **Tomasz Chruszczow ,** High-level Climate Action Champion of Poland, TBD
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