



## Workshop 2

# **Enabling waste-to-energy, industrial waste reuse and prevention solutions to achieve circular economy and boost climate action**

12 July 2018, 11:00h

Organized as part of the Regional Technical Expert Meetings on Mitigation and the Marrakech Partnership for Global Climate Action

Organizer : UNFCCC secretariat with technical support of the United Nations Industrial Development Organization and the Technology Executive Committee

### **Concept Note:**

The workshop will focus on **waste-to-energy, industrial waste reuse and prevention solutions** as integral parts to achieving a circular economy and the associated triple win: economic, environmental and employment. A “circular economy” is an alternative to a traditional linear economy (make, use and dispose). It aims to use resources as long as possible, extract the maximum value from them and recover and regenerate materials at the end.

Through the abovementioned solutions, the circular economy contributes to various sustainable development goals (SDGs). It helps to meet the overall energy needs (SDG 7- affordable and clean energy) and entails GHG emission reductions and improved resilience through more self sufficiency in energy (SDG 13-climate action). Furthermore, it also contributes to to improved access to clean energy in food chains and reduction of food losses (SDG 2-Zero Hunger), SDG 8 (decent work and economic growth), SDG 9 (industry, innovation and infrastructure) and SDG 12 (responsible consumption and production) through the creation of job opportunities, closed loops in food chains, industries and industrial symbiosis, and recovery energy from waste.

During the session, with the help of high impact case studies/examples, currently available technological solutions and innovative approaches for waste-to-energy and waste reuse/prevention that are actionable in the short term for the Asia Pacific region will be discussed. Participants are expected to also discuss and share experiences on the necessary policy environment, best practices in fostering partnerships and need of financial, technical and capacity building resources for the replication and upscaling of abovementioned solutions.

### **Agenda:**

05'	Brief introduction of the workshop and welcome by the moderator - Rene van Berkel, Representative and head of the regional office of UNIDO in India
05'	Opening remarks Dinara Gershinkova, TEC Vice Chair

05'	<p>Key note speech</p> <ul style="list-style-type: none"> <li>- Tomasz Chruszczow, High Level Climate Champion, Poland</li> </ul>
25'	<p>3 case studies on what have been done so far and lessons learnt :</p> <p>To set the scene and ensure maximum engagement during the session, the presenters of case studies will be asked to address the following questions related to <b>where we are</b> regarding waste-to-energy, industrial waste reuse and prevention solutions in the region:</p> <ul style="list-style-type: none"> <li>• How to manage possible competing uses of residues (between soil management, animal feed, energy, and bio-products);</li> <li>• How to appropriately integrated water, energy and food links in waste-to-energy policies and programmes;</li> <li>• Bearing the above points in mid, what are the observed technological and policy evolutions on waste-to-energy, industrial waste reuse and prevention solutions, that qualify as best practices resulting into emission reductions and sustainable development co-benefits?</li> <li>• What were the enablers and challenges/barriers for the successful implementation of the presented case studies? How were the challenges overcome?</li> <li>• What were the lesson learned that could be useful to scale up and replicate the best practices in the regional context?</li> </ul> <p><b>Case study presenters :</b></p> <ul style="list-style-type: none"> <li>• <b>Brahmanand Mohanty</b>, Independent Energy and Resource Management Expert : Technical insights on waste-to-energy projects in Lao</li> <li>• <b>Abhishek Bansal</b>, Head of Sustainability, Arvind Limited : Private sector focusing on enhancing sustainability and promoting the idea of a circular economy across key inputs such as cotton, energy, water, and chemicals</li> <li>• <b>Solomone Fifita</b>, Manager of Pacific Centre for Renewable Energy and Energy Efficiency (PCREEE): Policy / Institutional perspective on proposed Circular Economy concept for Tonga with a focus on WtE technologies)</li> </ul>
10'	<p>Quick Q/A session on technical case study presentations</p>
35'	<p>Moderated roundtable discussion based on the case study presentations and guiding questions</p> <p>The moderated round table discussion will delve into discussing <b>what do we want to achieve</b> to enhance opportunities in the waste-to energy, industrial waste reuse and prevention solutions that are actionable in the short term, and <b>how do we get there</b>.</p> <ul style="list-style-type: none"> <li>• What should be the vision/goal in terms of harnessing mitigation potential and co-benefits of waste-to-energy, industrial waste reuse and prevention policies, practices and actions?</li> <li>• What are the specific financial, technology and capacity building resources necessary to upscale and replicate innovative waste-to-energy, industrial waste reuse and prevention solutions in the Asia Pacific regions, that will contribute to achieve vision/goal discussed in abovementioned question?</li> <li>• How to deal with the contractual arrangements between the national, subnational and local governments and the technology providers?</li> <li>• What are the ways forward and necessary actions to be taken by Parties, non-Party stakeholders and organizations to meet identified financial, technological</li> </ul>

	<p>and capacity building needs for waste-to-energy, industrial waste reuse and prevention solutions, including through regional mitigation initiatives/partnership?</p> <p><b>Contributors for roundtable discussion:</b></p> <ul style="list-style-type: none"> <li>• Khun Thitiporn Pech-audom, Asia Biogas</li> <li>• Three case study presenters</li> <li>• General Audience</li> </ul>
5'	Final summary/wrap-up by the moderator

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