



## Regional Conference on Energy Resilience through Decentralized Power Plants and Smart Grid Integration

15 September 2022

Queen Sirikit National Convention Center, Bangkok, Thailand (Hybrid event)

*[In conjunction with ASEAN Sustainable Energy Week 2022 (ASEW),*

*14-16 September 2022 in Bangkok, Thailand]*

*Jointly Organized by*

Thailand Institute of Scientific and Technological Research (TISTR)  
Ministry of Higher Education, Science, Research and Innovation (MHESI), Thailand

*And*

Asian and Pacific Centre for Transfer of Technology (APCTT) of the  
United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

### TENTATIVE PROGRAMME

**Date: 15 September 2022 | Time: 09:30 am – 04:15 pm (Thailand Time, GMT+7)**

OPENING SESSION		
0930-0950	Opening Report	<b>Dr. Chutima Eamchotchawalit</b> Governor, Thailand Institute of Scientific and Technological Research (TISTR), Thailand
	Welcome Remarks	<b>Prof. Sirirung Songsivilai</b> Permanent Secretary, Ministry of Higher Education, Science, Research and Innovation (MHESI), Thailand
	Opening Remarks	<b>Ms. Preeti Soni</b> Head, Asian and Pacific Centre for Transfer of

	Special Remarks  <i>Group Photo</i>	Technology (APCTT), UN ESCAP  <b>Mr. Hongpeng Liu</b> Director, Energy Division, United Nations Economic and Social Commission for Asia and the Pacific (UN ESCAP)
<b>SESSION I: Decentralized renewable energy-based power plants – opportunities and challenges for energy security</b> <b>Moderator: Ms. Gauri Singh</b> , Deputy Director-General, International Renewable Energy Agency (IRENA) (0950 – 1100)		
0950-1010	Decentralized renewable energy for energy security and addressing climate change	<b>Ms. Gauri Singh</b> Deputy Director-General, International Renewable Energy Agency (IRENA)
1010-1030	Role of R&D for supporting decentralized renewable power and integration with smart grids	<b>Dr. Pratip Vongbandit</b> Deputy Governor Research & Development Group for Sustainable Development, TISTR, Thailand
1030-1050	Decentralized energy options and delivery models– challenges and opportunities	<b>Md. Enamul Karim Pavel</b> Head of Renewable Energy, Infrastructure Development Company Limited (IDCOL), Bangladesh
1050-1100	Q & A	
1100-1120	<i>Coffee break</i>	
<b>SESSION II: Integration of decentralized power plants with smart grids – opportunities, challenges and barriers</b> <b>Moderator: Dr. Pratip Vongbandit</b> , TISTR (1120 – 1230)		
1120-1140	Emerging 4IR technologies and trends for enhancing resilience of smart grids	<b>Prof. Dr. Zhao Yang Dong</b> Professor, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore
1140-1200	Integration of distributed energy	<b>Assoc. Prof. Dr.-Ing. Nipon</b>

	resources with virtual power plant platform - opportunities, challenges and barriers in Thailand	<b>Ketjoy</b> School of Renewable Energy and Smart Grid Technology (SGtech), Naresuan University, Thailand
1200-1220	Microgrid Service Solution: the zero net energy concept	<b>Dr. Yodthong Mensin</b> School of Renewable Energy and Smart Grid Technology (SGtech), Naresuan University, Thailand
1220-1230	Q & A	
1230-1330	<i>Lunch</i>	
<p><b>SESSION III: Enabling strategies for smart grids investment and commercialization</b></p> <p><b>Moderator: Prof. Sivanappan Kumar</b>, Department of Energy, Environment and Climate Change, School of Environment, Resources and Development, Asian Institute of Technology (AIT), Thailand (1330 – 1440)</p>		
1330-1350	Implementing decentralized renewable energy projects integrated with smart grids – challenges and opportunities	<b>Ms. Reena Suri</b> Executive Director, India Smart Grid Forum, India
1350-1410	Innovative financing and private investment for decentralized renewable energy projects with smart grids	<b>Mr. David Morgado</b> Senior Energy Specialist Asian Development Bank
1410-1430	Promotion of Energy Resilience and Grid Modernization through ASEAN Energy Resilience Initiative	<b>Dr. Kampanart Silva</b> Researcher, National Energy Technology Center (ENTEC), National Science and Technology Development Center (NSTDA), Thailand
1430-1440	Q & A	
1440-1500	<i>Coffee break</i>	
<p><b>SESSION IV: Panel discussion - Regional cooperation for energy resilience through decentralized power plants and smart grids to advance Bio-Circular-Green (BCG) economy</b></p> <p><b>Moderator: Ms. Preeti Soni</b>, Head, APCTT-ESCAP (1500 – 1600)</p> <p>Panelists: 1. Dr. Zhao Feng, Jiangsu Industrial Technology Research Institute, China</p>		

2. Prof. Tara Chandra Kandpal, Professor of solar energy at the Department of Energy Science and Engineering, Indian Institute of Technology (IIT) Delhi, India
3. Dr. Andhika Prastawa, Badan Riset dan Inovasi Nasional RI (BRIN RI), Indonesia
4. Mr. Azhar Abdul Raof, SIRIM Industrial Research, Malaysia
5. Dr. Naseem Zahra, Pakistan Council of Scientific and Industrial Research (PCSIR) Labs, Lahore, Pakistan

### **CLOSING SESSION**

1600-1615	Closing Remarks	<p><b>Ms. Preeti Soni</b> Head, APCTT-ESCAP</p> <p><b>Dr. Pratip Vongbandit</b> Deputy Governor, TISTR</p>
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