



Regional Consultation on Achieving SDGs through Sector-focused STI Policies

27-28 August 2018, Bangkok, Thailand

(**Venue:** Meeting Room H, United Nations Conference Centre (UNCC), United Nations Building, Rajadamnern Nok Ave., Bangkok, Thailand)

Organized by

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

Jointly with

Thailand Institute of Scientific and Technological Research (TISTR)

and

Ministry of Science and Technology, Royal Thai Government

Background

Science, technology and innovation (STI) are widely recognized as the critical means for achieving Sustainable Development Goals (SDGs). SDG 17 focuses on strengthening the means of implementation and revitalizing the global partnership for sustainable development and targets 17.6-17.8 specifically focuses on effective application of STI for achieving SDGs¹. Technology is a game changer when leveraged effectively. Technology can also help countries to leapfrog in development and bridge gaps between technologically advanced developed economies and countries with special needs.

The complex and interactive web of knowledge flows and relationships between industry, government and academia and making them work systematically to sustain innovation and science and technology development efforts is known as National Innovation System (NIS). The innovative performance of a country depends to a large extent on how these NIS actors relate to each other as elements of collective system of knowledge creation and use, as well as the technologies they use². NIS can consist of Sectoral Innovation Systems (SIS), which are closely associated with a specific sector or industry. Among the various technological sectors, renewable energy and ICT assumes great significance due to their tremendous potential in helping countries achieve SDGs.

The rapid development of ICT-based services and systems is transforming the way traditional sectors operate and how societies benefit from them. New and emerging ICT applications such as the Internet of Things (IoT), robotics and artificial intelligence, 3-D printing are bringing a radical shift in healthcare, education, energy services, agriculture, and environmental monitoring and protection applications³. ICT applications in renewable energy sector also offer promising solutions to efficient management of energy through smart grids, industrial automation processes that optimizes performance and so on. These applications are helping countries to become more energy secure and less dependent on fossil fuels thereby reducing global greenhouse gas emissions.

This regional consultation, organized in partnership with the Thailand Institute of Scientific and Technological Research (TISTR) and the Ministry of Science and Technology of the Royal Thai Government is part of ongoing efforts of APCTT-ESCAP to strengthen the capacities of countries in the Asia-Pacific region to achieve SDGs through effective application of STI. In particular, this consultation will focus on sharing experiences and best practices in implementing STI policies in sectors of renewable energy and ICT for achieving SDGs. The deliberations during the meeting

¹ Source: Sustainable Development Knowledge Platform;
<https://sustainabledevelopment.un.org/topics/technology>

² Source: OECD; <https://www.oecd.org/science/inno/2101733.pdf>

³ Source: ICT and SDGs; http://unsdsn.org/wp-content/uploads/2015/09/ICTSDG_InterimReport_Web.pdf

would also discuss various challenges standing in the way of effective implementation of such policies and will consider mitigating actions.

Objectives

- To facilitate knowledge sharing on innovative policy mechanisms for planning and implementing STI policies directed towards achieving relevant SDGs linked to the selected sectors
- To raise awareness on the need to align sectoral strategies (renewable energy and ICT) into overall STI policy formulations
- To enhance the understanding on global mechanisms for facilitating knowledge sharing on sector specific STI for achieving SDGs
- To learn about possibilities for cross-border cooperation in technology transfer in selected sectors among countries through sector-specific knowledge networks on STI

Expected Outputs

- Presentations on national as well as regional scenarios and best practices in policy formulation for planning and implementing STI policies in areas of renewable energy and ICT
- Recommendations at sectoral levels to advance implementation of relevant SDGs
- Recommendations and strategies for fostering regional cooperation on technology transfer

Expected Outcomes

- Improved understanding on STI policy with special emphasis on renewable energy and ICT sectors to achieve relevant SDGs
- Increased awareness on best practices and challenges in implementing STI policy in renewable energy and ICT sectors.
- Enhanced knowledge on global mechanisms for facilitating knowledge sharing on STI for achieving SDGs
- Formation of a collaborative network to enable further discussions and knowledge sharing within the region going forward

Organizers

- This Regional Consultation is jointly organized by the Asian and Pacific Centre for Transfer of Technology (APCTT) of the United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) with the Thailand Institute of Scientific and Technological Research (TISTR), the Ministry of Science and Technology of the Royal Thai Government and ASEAN, in cooperation with the Trade and Investment Division of ESCAP.

Participants

- Senior experts involved in STI policy formulation and implementation in ESCAP Member States
- Government officials from relevant Ministries and representatives from academia, public institutions, development organizations and the private sector in Thailand
- Representatives from the United Nations and other international organizations based in Thailand working on cross-sectoral interventions of STI towards helping countries to achieve SDGs

Tentative Programme

| Regional Consultation on Achieving SDGs through Sector-focused STI Policies | | |
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| 27 August 2018 (Monday) | | |
| 08:30-09:00 | Registration | |
| OPENING SESSION: | | |
| 09:00-09:45 | <p>Welcome Remarks</p> <p>Opening Remarks</p> <p>Inaugural Address</p> <p>Group Photo</p> | <p>Ms. Michiko Enomoto Head, Asian and Pacific Centre for Transfer of Technology ESCAP</p> <p>Ms. Aparat Mahakhant, Deputy Governor, Thailand Institute of Scientific and Technological Research</p> <p>Mr. Permsuk Sutchaphiwat, Chief Inspector General, Ministry of Science and Technology, Thailand</p> |
| 09:45-10:15 | Tea / Coffee | |
| <p>Session I: Achieving SDGs through Sector-focused STI Policies – Global and Regional Perspectives</p> <p>Moderator: Dr. Jeong Hyop Lee, Senior Advisor, Science, Technology and Innovation Policy Institute (STIPI), King Mongkut’s University of Technology Thonburi (KMUTT), Thailand</p> | | |
| 10:15-11:15 | Principles and Methodologies for STI Strategy Development – Experiences and Best Practices from Republic of Korea | Dr. Jeong Hyop Lee, Senior Advisor, Science, Technology and Innovation Policy Institute (STIPI), King Mongkut’s University of Technology Thonburi (KMUTT), Thailand |
| 11:15-11:45 | STI and Technology Transfer for Inclusive Development | Ms. Michiko Enomoto Head of Asian and Pacific Centre for Transfer of Technologies, ESCAP |

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| 11:45-12:30 | Multi-sectoral STI Policy Coordination for achieving SDGs – Perspectives from ASEAN | Ms. Cheong Lee Sing Head of Science and Technology Division ASEAN Secretariat |
| 12:30-12:50 | Q&A | |
| 12:50-13:50 | Lunch | |
| Session II: Renewable Energy and SDGs: Policy, Technological and Business Perspectives Moderator: Mr. Michael Williamson, Chief, Energy Section, Energy Division, United Nations Economic and Social Commission for Asia and the Pacific | | |
| 13:50-14:20 | Policy Opportunities to Incentivise Innovation for Renewable Energy | Mr. Michael Williamson, Chief, Energy Section, Energy Division, ESCAP |
| 14:20-14:50 | Policy and Regulatory Environment for Development and Transfer of Renewable Energy Technologies | Ms. Aparat Mahakhant Deputy Governor, Thailand Institute of Scientific and Technological Research, Thailand |
| 14:50-15:20 | Promoting Innovative Entrepreneurship in Renewable Energy – Perspectives from The Philippines | Mr. Edgar Garcia Director, Technology Application and Promotion Institute, Department of Science and Technology, The Philippines |
| 15:20-15:50 | Tea / Coffee | |
| 15:50-16:20 | Renewable Energy Cooperation-Network for the Asia Pacific (RECAP) for Promoting Knowledge Sharing and Partnerships | Mr. Krishnan S. Raghavan Coordinator, APCTT-ESCAP |
| 16:20-16:50 | Development of Renewable Energy in Thailand – Private Sector Perspectives | Mr. Arthit Vechakij, Vice Chairman, Renewable Energy Industry Club, Federation of Thai Industries |
| 18:30-20:00 | Welcome Dinner at Nanda Heritage Hotel | |

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| 28 August 2018 (Tuesday) | | |
| Session III: Innovative ICT Applications for Achieving SDGs: Policy, Technical Regulatory Perspectives | | |
| Moderator: Mr. Matthew Perkins, Economic Affairs Officer, ICT and Disaster Risk Reduction Division (IDD), ESCAP | | |
| 09:00-09:30 | Asia Pacific Information Superhighway: Powering Frontier Technologies for Achieving the SDGs | Mr. Matthew Perkins Economic Affairs Officer, ICT and Disaster Risk Reduction Division (IDD), ESCAP |
| 09:30-10:00 | Promoting Regional Cooperation in Southeast Asia in R&D on Information and Communication Technologies | Mr. Nobuyuki Asai Acting Director, National Institute of Information and Communications Technology (NICT) Asia Center, Bangkok, Thailand |
| 10:00-10:30 | ICT Applications for achieving SDGs in Sri Lanka | Mr. WJLS Fernando, Chairman, National Engineering Research and Development Centre, Sri Lanka |
| 10:30-11:00 | Tea / Coffee | |
| 11:00-11:30 | Advanced ICT Applications for Manufacturing Industries – Experience from Malaysia | Ms. Nur Zuriyany Zaki Analyst, Academy of Sciences Malaysia, Malaysia |
| 11:30-12:00 | Promoting Thai Startups for Sustainable Development | Mr. Damien Durand Executive Business Development Manager, True Corporation Plc., Thailand |
| 12:00-13:30 | Lunch | |
| Session IV: Technology Transfer & Commercialization - Promoting Regional Cooperation | | |
| Moderator: Mr. WJLS Fernando, Chairman, National Engineering Research and Development Centre (NERDC), Sri Lanka (TBC) | | |
| 13:30-14:15 | Promoting Cross-sectoral Innovation and Technology Commercialization – Experiences and Best Practices from | Mr. Akash Bhavsar, Managing Director, SkyQuest Technology Ventures, |

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| | India | Ahmedabad, India |
| 14:15-14:45 | Promoting Sectoral Innovation Through Regional Collaborative Networks – Perspectives from APCTT-ESCAP | Mr. Satyabrata Sahu Coordinator, Asian and Pacific Centre for Transfer of Technologies, ESCAP |
| 14:45-15:30 | Technology Transfer and Commercialization – Private Sector Perspectives | Ms. Sawita Sarah Tinsuntisook International Coordination Director, Renewable Energy Industry Club, Federation of Thai Industries |
| 15:30-16:00 | Tea/Coffee | |
| 16:00-16:30 | Technology Transfer and Commercialization – Private Sector Perspectives | Ms. Wilaiporn Chetanachan, Director, Corporate Technology Office, Siam Cement Group |
| 16:30-16:45 | Closing Remarks | Ms. Aparat Mahakhant Deputy Governor, Thailand Institute of Scientific and Technological Research, Thailand Ms. Mia Mikic Director, Trade, Investment and Innovation Division, ESCAP Ms. Michiko Enomoto Head, Asian and Pacific Centre for Transfer of Technologies, ESCAP |