

Regional Power Grid Connectivity in North-East Asia: ESCAP Strategies and Support

Michael Williamson

Section Chief of Energy Division, UN ESCAP



ESCAP's Linkages to NEA

Connectivity

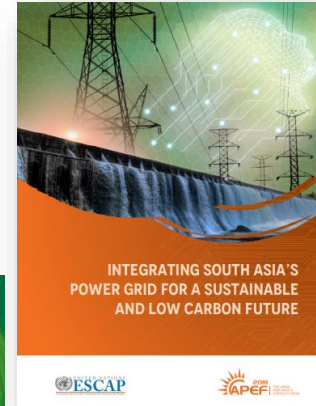
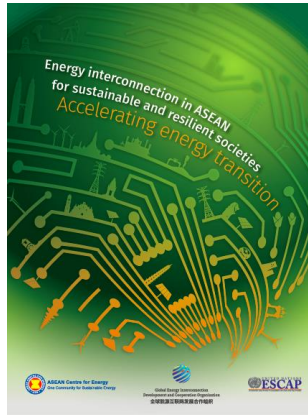
1. Asia-Pacific energy connectivity – key enabler for SDG7
2. Development of Regional Road Map for Energy Connectivity – region wide blueprint for connectivity
3. Implementing Project on *Regional power grid connectivity in North-East Asia: Policies and Strategies* (Korea-ESCAP fund)



Image courtesy K Line Group

1. Supporting Energy Connectivity for Sustainable Development

- ESCAP provides platform for inter-governmental meetings, workshops and expert group meetings to address barriers to energy connectivity from national, subregional, and regional perspectives
- Asian and Pacific Energy Forum – ministerial level meeting to, *inter alia*, align policy, overcome barriers and increase awareness of the benefits of energy connectivity
- ESCAP analytical work and publications on energy connectivity (pictured)



2. Regional Road Map for Energy Connectivity

- ESCAP resolution 73/8 established Expert Working Group on Energy Connectivity (EWG-EC).
- APEF2 Ministerial Declaration recognized role of energy connectivity in SDG7, requested EWG-EC to submit its work to the Committee on Energy.
- EWG-EC developed draft regional road map on power system connectivity, – feedback from committee finalized by 1 December 2019.



Roadmap Objectives and Strategies

The overall objective of the road map is to eventually create a pan-Asian interconnected grid that offers a more reliable, affordable and sustainable electricity supply.

This will underpin the region's social and economic development and assist the move to a low-carbon energy system

- 9 strategies outlined – including policy coordination, institutional infrastructure, master planning, finance, risk management, multilateral power trading, capacity building and SDG alignment.
- Stakeholders identified to assist implementation

Roadmap Strategies

Strategy 1: Building Trust and Political Consensus for Cross Border Electricity Trade

Strategy 2: Development of a Regional Cross-Border Electricity Grid Masterplan

Strategy 3: Develop and Implement Intergovernmental Agreements on Energy Cooperation and Interconnection

Strategy 4: Coordinate, Harmonize and Institutionalize Policy and Regulatory Frameworks

Strategy 5: Move Towards Multilateral Power Trade and Create Competitive Markets for Cross-Border Electricity

Strategy 6: Coordinate Cross-Border Transmission Planning and System Operation

Strategy 7: Mobilize Investment in Cross-Border Grid and Generation Infrastructure

Strategy 8: Capacity Building, Sharing of Information, Data, Learnings and Best Practices

Strategy 9: Ensure the Coherence of Energy Connectivity Initiatives with the Sustainable Development Goals



3. Project: *Regional power grid connectivity in North-East Asia: Policies and Strategies*

- Supported by the Republic of Korea.
- Implementation July 2018 – June 2020
- Aim: to analyze and compare the North East Asia power integration studies examining these factors:
 - Economic
 - Technical
 - Political incl. energy security issues;
 - Regulatory (the variation and discrepancies in laws and regulations); and
 - Compatibility with SDG7 and Paris Agreement.
- Will create strategies to forge a common vision among government officials to start consolidating interconnection proposals.

Upcoming Project Activities

- First draft of study will be prepared and circulated to expert reviewers by early November.
 - Early December – the ESCAP secretariat, report author, along with the expert reviewers and member State focal points will hold a consultation in Incheon, RoK to review second draft of the study.
 - Early 2020 – face to face meeting of regional policymakers to review final draft report
- {perspective from lead author Maria Pastukhova}



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