

Executive Summary

Literature Report is one of the main deliverables for the project, “Study on the Formation of the ASEAN Power Grid Generation and Transmission System Planning Institution (AGTP)” by TEPCO and provides case examples about this field in Japan, Europe and Southern African region to refer and learn.

Another coupled project “Study on the Formation of the ASEAN Power Grid Transmission System Operator Institution (ATSO)” is performed by Nord Pool Consulting and two deliverables are coordinated and harmonized supported by ERIA, the implementation agency for both projects.

The other two main deliverables are the AGTP guideline and the AGTP implementation plan. The former contains the principles, framework, and other technical arrangements for the establishment of APP and the latter deals with the roadmap of actions for the establishment of the APP.

In this document, last two chapter is the summary of above two deliverables:

- Summary of the AGTP guideline
- Summary of the AGTP implementation plan

This document includes various key examples especially about system planning and its organization as follows:

- How they define their mission and vision.
- Functions and basic procedures of system planning part
- Current grids with many interconnections and how to develop their interconnections.
- Proposed regulations for APP based on Japanese case example

According to technical analysis and global trend, followings are main points about the development of interconnections:

- In general, security, economy and grid stability are key reasons to connect the grids with neighbouring countries.
- It's very important to respect such as current electrical mechanism, development stage, philosophy of each countries.
- As seen in many regions, it's possible to connect the grids under agreed regulation and leave different systems, schemes and methodology.
- It's necessary to discuss agreed documents including establishment of APP and share their clear goals of short-term, mid-term and long-term.

Three deliverables surely contribute for AMS policy makers, experts and all stakeholders to understand international case examples, how to proceed these complex and tough steps and start to discuss to build connected grids, effective markets and harmonized corporation of AMS.