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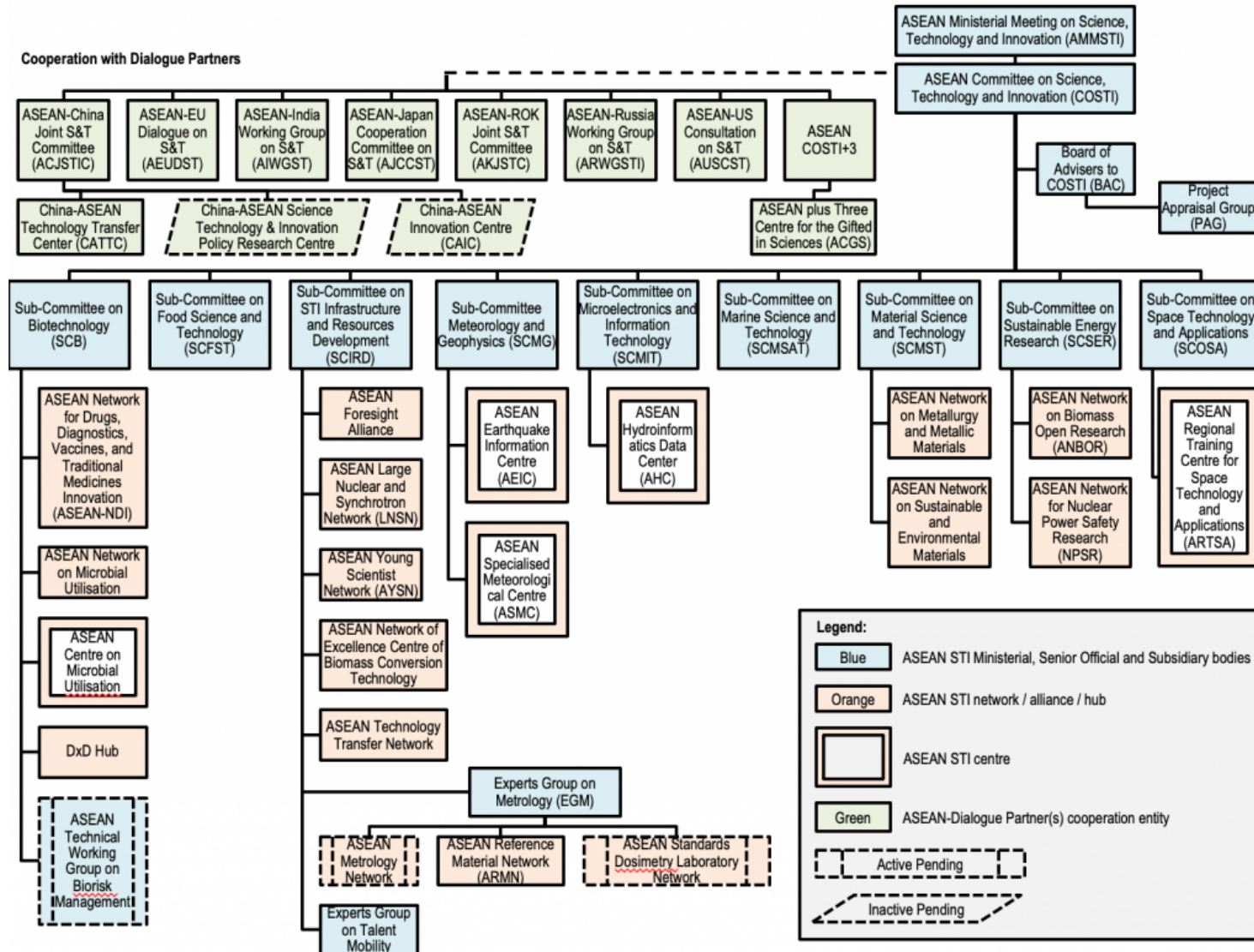
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How Should ASEAN NSPR Work with ASEAN?

Kampanart SILVA, Researcher

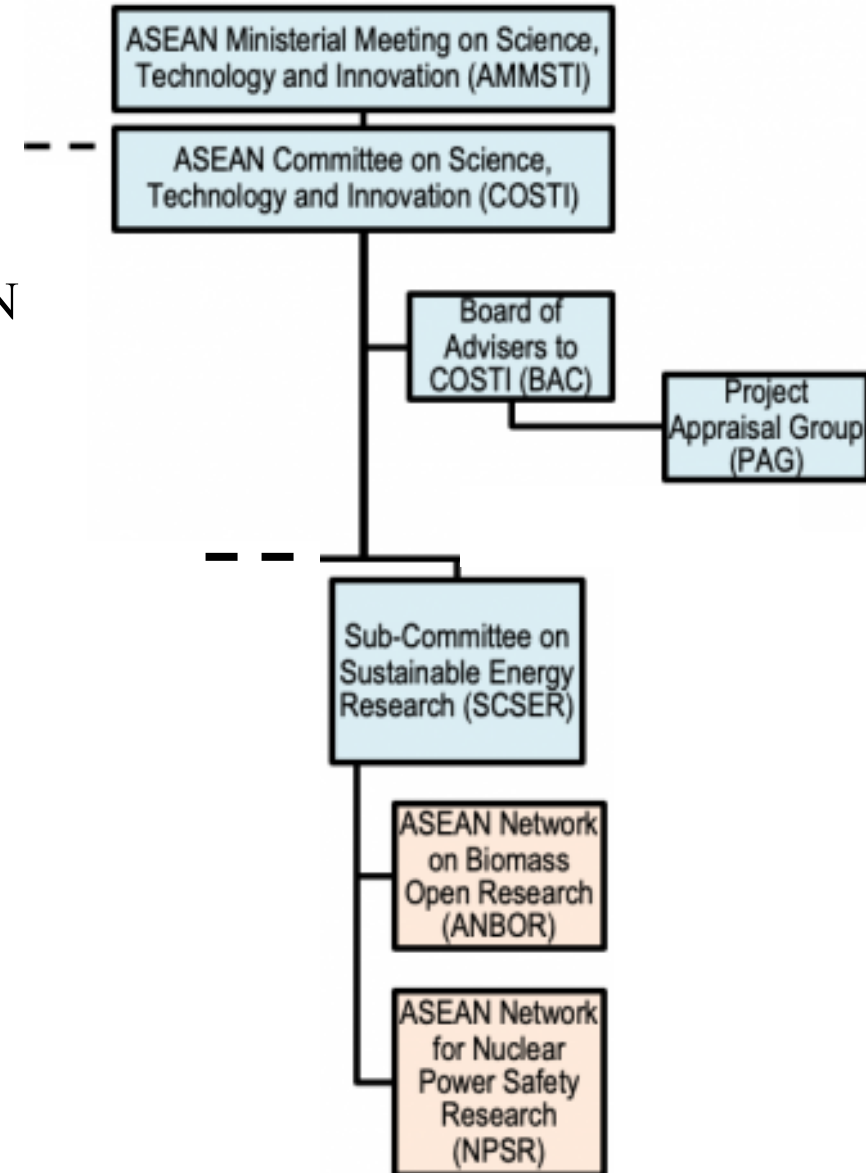
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ASEAN COSTI Structure



ASEAN COSTI Structure

- AMMSTI is governing the direction of STI in ASEAN
 - Representatives to AMMSTI are basically ministers of a relevant ministry
- COSTI reports to AMMSTI
 - Representatives to COSTI are basically permanent secretaries of a relevant ministry
- BAC provides advice to COSTI to assist the decision-making
- **SCSER reports to COSTI**
- **NPSR is a network being monitored by SCSE**
 - **NPSR reports to SCSE**
 - **SCSER Chair will summarize the updates and report to COSTI**





What Thailand Reported at SC SER-50

- SC SER meeting has not been held since 2019 because of COVID-19.
 - **SC SER-50 was held on October 6, 2022.**
 - ASEAN NPSR needed to report the completion of the project proposed in 2017, and the updates on the network activities.
- **The completion of the project** entitled “Enhancing ASEAN Research Competency in Nuclear Power Emergency Preparedness and Response” funded by **ASEAN STI Fund (ASTIF)** was acknowledged by SC SER, along with its outputs and outcomes were introduced.
 - **Two academic articles**
 - **Correct understanding of transboundary dispersion characteristics of an NPP accidental release**
- ASEAN NPSR **current status** was also introduced.
 - **Nine member countries**
 - **Chairmanship was passed to Singapore**, and will be passed back to Thailand in 2023.
 - Next benchmark problem(s) will be discussed at the 5th Annual Meeting

How Shall We Work Further?

- ASEAN NPSR needs to report to SC SER.
 - **Choice 1: Previous Lead Country**
 - **Choice 2: Lead Country**
 - **Choice 3: ...**
- ASEAN can be one of the sources of funding (esp. for the next benchmark problem).
 - The next call of ASTIF will not be opened soon.
 - Funding can be requested to a Dialogue Partner, though we need to align with its interest.
 - Procedure is troublesome, though it will help gain recognition of the network.

ASEAN State of Climate Change Report

Moving towards Carbon Neutrality

- ASEAN's goal for tackling climate change
 - Overall goal: **Development goals should be incorporated** into achievement of any climate change interventions.
 - Development goal: ASEAN aims to realize the **AMS developmental goals**, based on an understanding of the extent of multi-dimensional trade-offs and synergies among the SDGs
 - Adaptation goal: Sectors that are commonly impacted by climate change across AMS aim to set **process-oriented and/or outcome-based goals**.
 - Mitigation goal: Mitigation actions have a clear goal of **realizing net-zero GHG emissions** as early as possible
 - Goal for synergizing adaptation and mitigation: Wherever possible, **adaptation interventions should aim for synergy with mitigation** to drive toward net-zero emissions.



ASEAN State of Climate Change Report

Current status and outlook of the ASEAN region
Toward the ASEAN climate vision 2050



one vision
one identity
one community

New Definition of Green Energy

Natural Gas and Nuclear Will Be Called “Green Energy” in Europe

EU Taxonomy: Commission presents Complementary Climate Delegated Act to accelerate decarbonisation

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The European Commission has today presented a [Taxonomy Complementary Climate Delegated Act](#) on climate change mitigation and adaptation covering certain gas and nuclear activities. The College of Commissioners reached a political agreement on the text, which will be formally adopted once translations are available in all EU languages.



World ▾ Business ▾ Legal ▾ Markets ▾ More ▾



EU's green gas and nuclear investment rules head for final vote

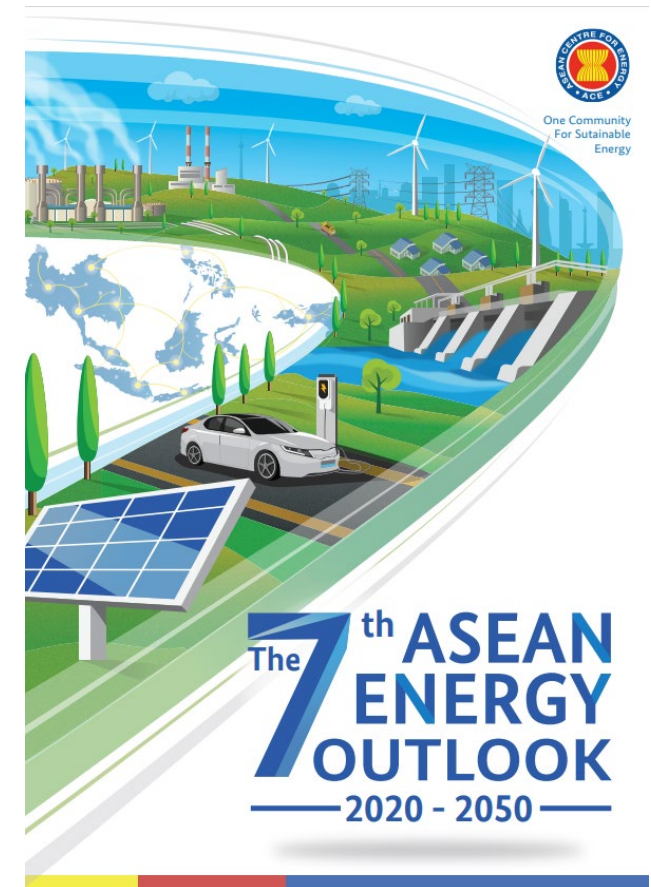
By Kate Abnett



7th ASEAN Energy Outlook

Capturing the Movement of AMSs towards Nuclear

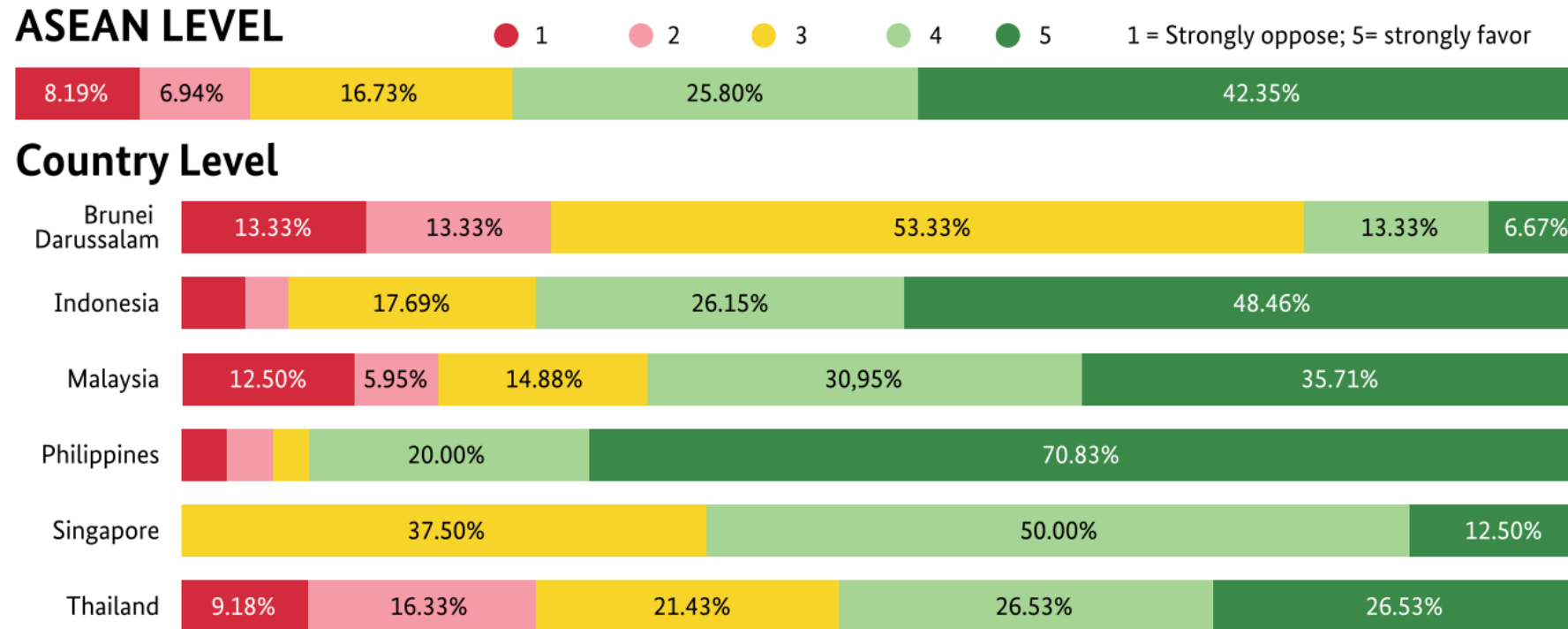
- *AEO7 also explored the implications of promoting least cost planning in the electric sector through the **LCO Scenario** to achieve regional RE generation targets.*
 - **Nuclear energy is also introduced in the region**, with 5.2 GW deployed by 2050 (<1% of the power mix).
 - **A notable addition to the investment cost is nuclear energy** which may account for up to 3.72% of the power investments in later years.
- *Chapter 4: Assessing measures for energy resilience*
 - **Nuclear power has the potential** to address some of the most pressing concerns of our time, from energy security and climate change to sustainable development and economic well-being.
 - **Nonetheless, negative perceptions about nuclear power persist** in several countries and need to be addressed if it is to achieve its full potential in contributing to the global transition to clean and reliable energy



7th ASEAN Energy Outlook

Social Acceptance of Nuclear Power

Figure 4.16 Civilian Nuclear Energy Public Survey in ASEAN

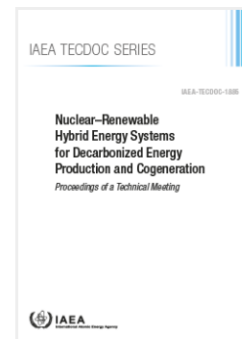


Nuclear – RE Hybrid System

- Our idea
 - **Nuclear:** NEGATIVE PERCEPTION / BASELOAD SUPPLY
 - **Renewable energy:** SOCIAL ACCEPTANCE / INTERMITTENCY
 - **Hydrogen:** BYPRODUCT
- This synchronizes with IAEA (INPRO)'s idea.

Nuclear–Renewable Hybrid Energy Systems for Decarbonized Energy Production and Cogeneration


Proceedings of a Technical Meeting Held in Vienna, 22–25 October 2018



IAEA-TECDOC-1885

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Key Takeaways

ASEAN NPSR has a mandate to report to ASEAN SCSEER.

Joint funding schemes with ASEAN Dialogue Partners can be a potential source of funding for future projects.

ASEAN is reconsidering nuclear power as a promising choice to achieve carbon neutrality.

Thailand proposes a joint study on nuclear-RE hybrid system, focusing on the feasibility of the idea and its safety aspects.



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Thank You

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