



CASE
for Southeast Asia

On behalf of



Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety

of the Federal Republic of Germany

CASE programme and RPTCC

28th Regional Power Trade Coordination Committee (RPTCC-28), 27 August 2021



The CASE programme



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Federal Ministry for the
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Coordinator



Regional Implementing Partners



Aligned programme of



National Implementing Partners



About the CASE programme



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of the Federal Republic of Germany



Objective: The narrative of the direction of the energy sector in Southeast Asia has substantially shifted towards an **evidence-based energy transition**, aiming to increase political ambition to comply with the Paris Agreement.

Outputs



Research and Evidence

The evidence base for an energy transition in SEA is improved



Transparency and Mapping

Synergies between different energy transition activities in the region are maximized due to increased transparency and cooperation



Dialogue Non-energy sector

The dialogue on energy transition within government bodies is improved



Technical Assistance (energy)

The capacities of key energy sector stakeholders to undertake an energy transition are strengthened



Promoting public discourse

A public discourse on energy transition is established

Research & Assessment Framework: Key challenges facing the energy transition



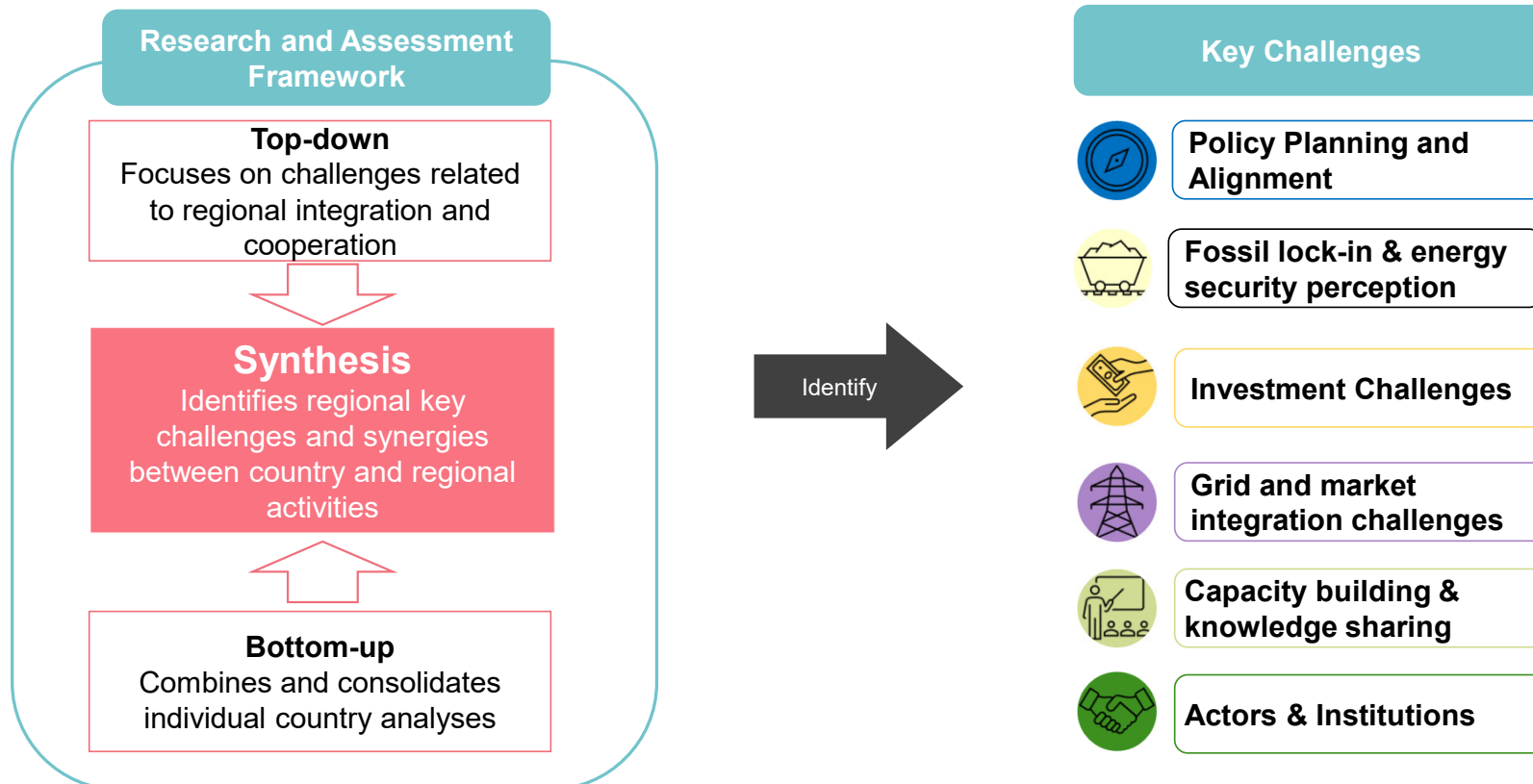
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Policy and institutional challenges



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Policy Planning and Alignment



Fossil lock-in and perception of energy security



Capacity building & knowledge sharing



Actors and Institutions

Grid and market challenges



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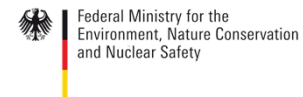
Grid and regional market integration challenges

- The benefits of a regional grid are not yet well understood: Regional grid integration could be a regional solution to accommodate higher shares of renewables in all ASEAN countries.
- VRE grid integration challenges will appear separately in each country as shares of variable renewables increase.
- Current policy planning, market design and system operations in the region may be outdated and assumptions that represent additional barriers to the integration of renewables (e.g. prevailing idea of grid management with baseloads)

CASE (suggestion) *Regional Multilateral Market Design*



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Goals

- **Identifying and quantifying benefits of regional grid integration**
- **Support design of regional multilateral power market structure** and trading, providing evidence to accelerate the clean energy transition through commercialise ASEAN Power Grid (APG)
- **Support regional ASEAN stakeholders** by providing evidence into discussions for regional grid integration
- **Cooperate and synergies with other institutions** working on regional grid integration to streamline policy pipeline and reduce overlaps
- **Strengthen regional angle into country discussions** and planning

Potential content

- **Current status, plans and potential** to integrate VRE and support energy transition
- **Quantification of impacts** (security of supply, economic advantage, investment costs)
- Interconnection market Operation (e.g. trading protocol)
- Discussion and assessment of the **actions and policy planning harmonization** needed
- Assess/ complement existing long-term visions of regional power planning (from AEOs)
- Provide policy recommendations to regional stakeholders

Scope: Regional (with country detail)

Potential partners: RPTCC, ACE, REPP SSN, HAPUA, power developers, etc.

Timeline: 2022

Potential next steps:

1. CASE finalisation of research proposal and ToR for regional grid workstream (Q4 2021)
2. Circulation of proposal to RPTCC and regional stakeholders for input, to optimize CASE activities in supporting ASEAN objectives
3. Explore options of building consortium through MOU agreements to implement research, share knowledge and data, and develop robust policy recommendations
4. Finalization and presentation of research activity

Other potential cooperation opportunities



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- **Targeted research and TA** on other specific needs identified through internal and external resources
- **Capacity building** related to specific tools developed by CASE and others
- **Joint events** (e.g. Regional energy transition dialogue, cross sectoral event around ET etc.)
- **Workshops** to support peer-to-peer exchange on ET within and outside of the region
- **Others... ?**



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