



**CASE**  
for Southeast Asia

On behalf of



Federal Ministry for the  
Environment, Nature Conservation  
and Nuclear Safety

of the Federal Republic of Germany

# Clean, Affordable and Secure Energy for Southeast Asia (CASE) – Indonesia

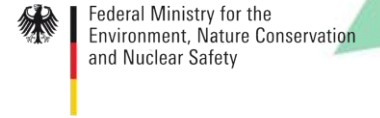
**Kick-Off Workshop – 2<sup>nd</sup> February 2021**



# Agenda



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of the Federal Republic of Germany

## 1. Why CASE?

- Addressing Global Challenges

## 2. CASE Project Overview

- Project Outline, Approach & Methodology
- Consortium & Organisational Structure in Indonesia

## 3. CASE Indonesia Activities



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# 1. Why CASE?

# Addressing Global Challenges



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## 1) Climate Change

**Paris Agreement:** Global commitment to limit global warming to 2° C

## 2) Energy Transition

Energy main contribute of global Greenhouse Gas emissions  
Urgent need to **decarbonize our energy system**

Globally, highly relevant region to address (future) fossil fuel emissions: Asia –  
China, India and **Southeast Asia (SEA)**

→ CASE target countries: Indonesia, Philippines, Thailand, and Vietnam

# Power Sector Trends in Southeast Asia / Indonesia



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Renewable capacity is rising!

... but fossil fuel still dominate the sector.

**NIKKEI ASIAN REVIEW**

**Southeast Asia's energy majors pivot sharply to green power**

Renewables tapped to feed region's steep rise in power demand

YOHEI MURAMATSU, JUN SUZUKI and YUJI OHIRA, Nikkei staff writers  
 APRIL 15, 2019 07:45 JST

**The Jakarta Post**

NEWS > BUSINESS

**Ministry mulls retiring giant Suralaya coal plant, replacing it with solar farm**

Norman Harsono  
 The Jakarta Post

Jakarta / Mon, November 30, 2020 / 05:38 pm

31 Oct 2019

**Indonesia Target: 23% RE by 2025!**

20 March 2020

**The Jakarta Post**

NEWS > BUSINESS

**Government studies plant to convert old power plants into renewables**

Norman Harsono  
 The Jakarta Post

30 Nov 2020

**New coal power capacity still under construction & planning**

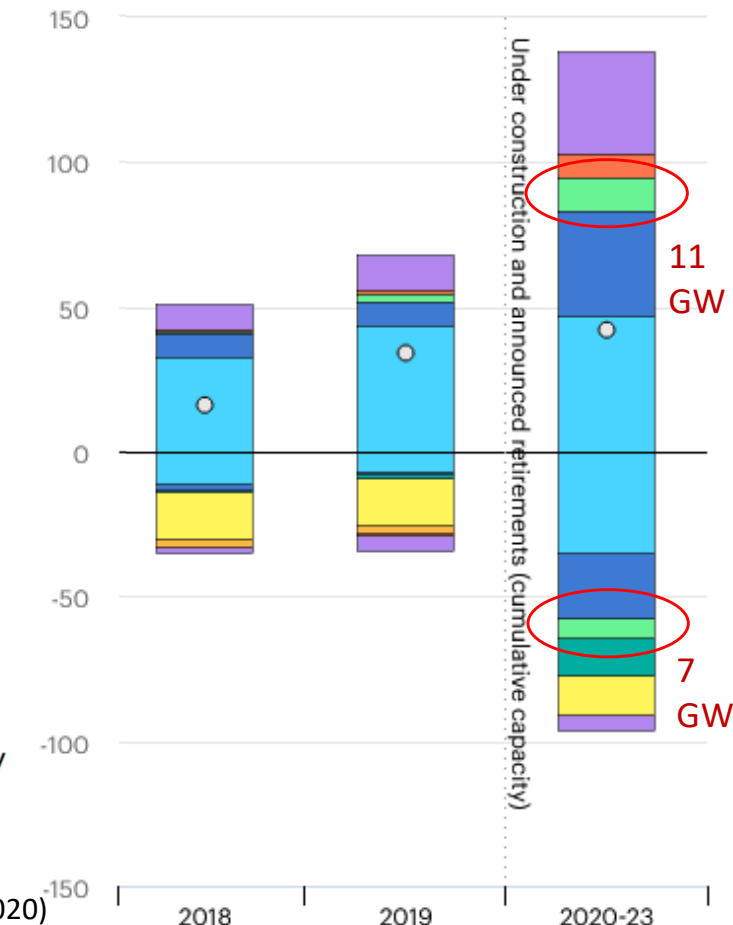
Indonesia Power Mix 2019:

- Coal 49,9% (34,7 GW)
- RE 14,8% (10,3 GW)

(Source: Handbook Of Energy & Economic Statistics Of Indonesia 2019, Kementerian ESDM)

- China
- India
- Indonesia
- Germany
- United States
- United Kingdom
- Japan
- Rest of the world
- Net additions

**Net annual additions, retirements and construction of coal-fired plants by region**



Data Source: IEA (May 2020)

<https://www.iea.org/data-and-statistics/charts/net-annual-additions-retirements-and-construction-of-coal-fired-plants-by-region-2011-2023>

# Scope of CASE Project

Meeting the **Energy Transition Challenge** means careful balancing of the three core sustainability dimensions



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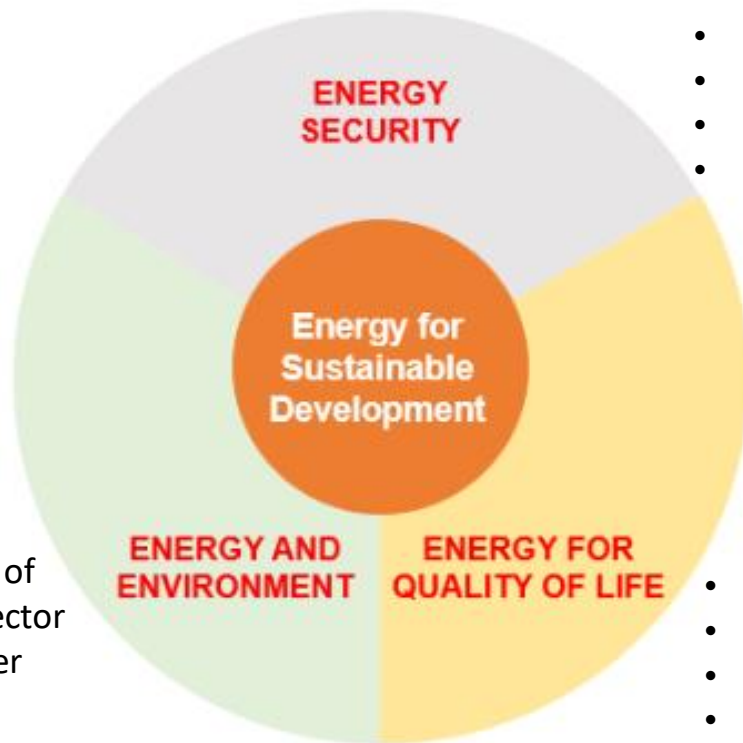
CASE supports Indonesia to **Decarbonize its Power Sector** to achieve its national targets and increase ambitions:

## Paris Climate Accord

- NDCs: Officially Ratified in **Undang-Undang no. 16 Tahun 2016**
- Indonesia to reduce its GHG emission by **29%/41%** by 2030 (unconditional/conditional)

## Sustainable Energy / 2030 Agenda

- SDG 7 targets
- Renewable Energy in primary energy mix: 23% / 2025, 31% / 2050
- Energy Efficiency: 17% / 2030 from Final Energy Consumption BAU Scenario



- Energy System Resilience
- Import Dependencies
- Energy Intensity of Economy
- Global competitiveness
- ...

- Energy Access
- Job Creation
- Energy Affordability
- ...

- Carbon footprint of energy sector
- Air / water pollution



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## 2. CASE Project Overview

Indonesia

# About the CASE programme



**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**.



**To drive the energy transition, a diverse set of stakeholders is required!**

**Everyone has a role to play!**





# Methodology and approach

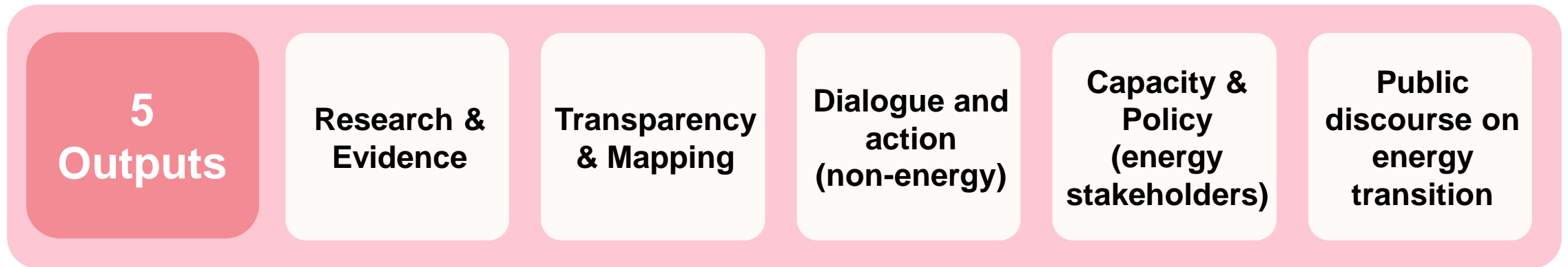


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**CASE will propose evidence-based solutions to the challenges met by decision makers in the design and implementation of the energy transition (ET) and build societal support around those solutions.**



**Implementation Timeframe:** March 2020 to Feb 2024

# How is CASE implemented?

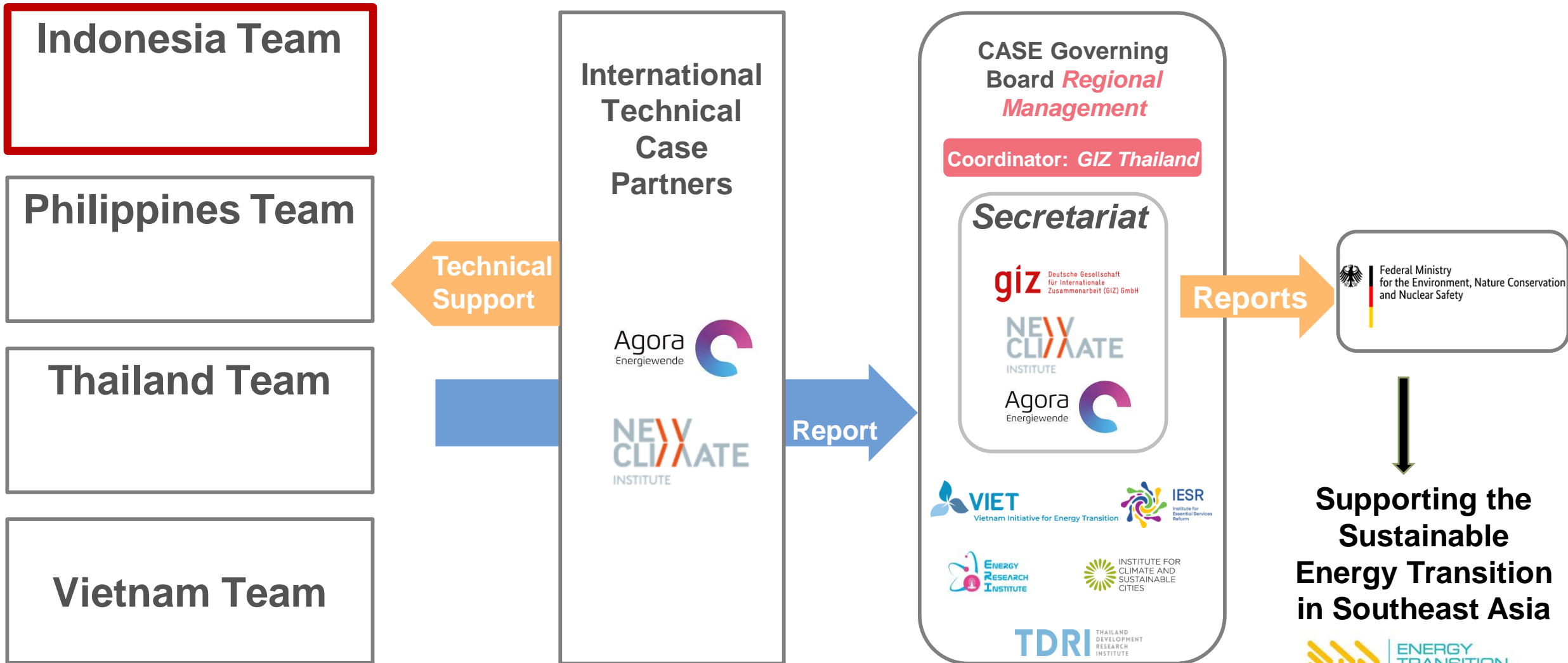
## CASE Regional Consortium



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**Supporting the Sustainable Energy Transition in Southeast Asia**



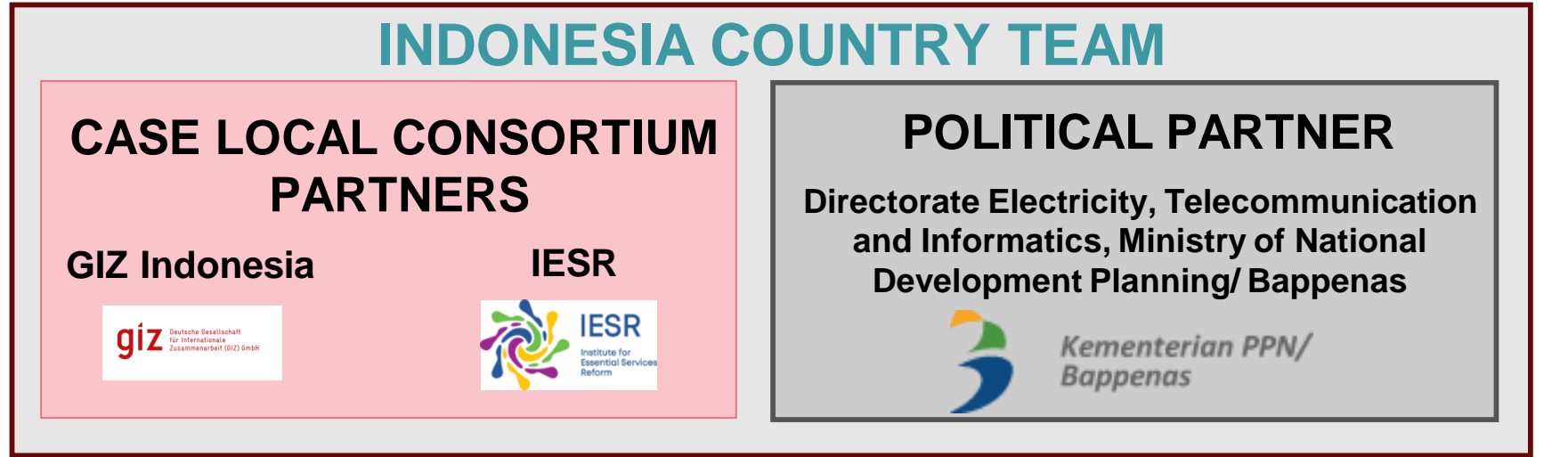
Powering Prosperity and Enabling Sustainability in South East Asia

# Implementation Approach in Indonesia



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## 3. CASE Indonesia Activities

2021 and beyond

# Research Assessment Framework: Importance of stakeholder Involvement



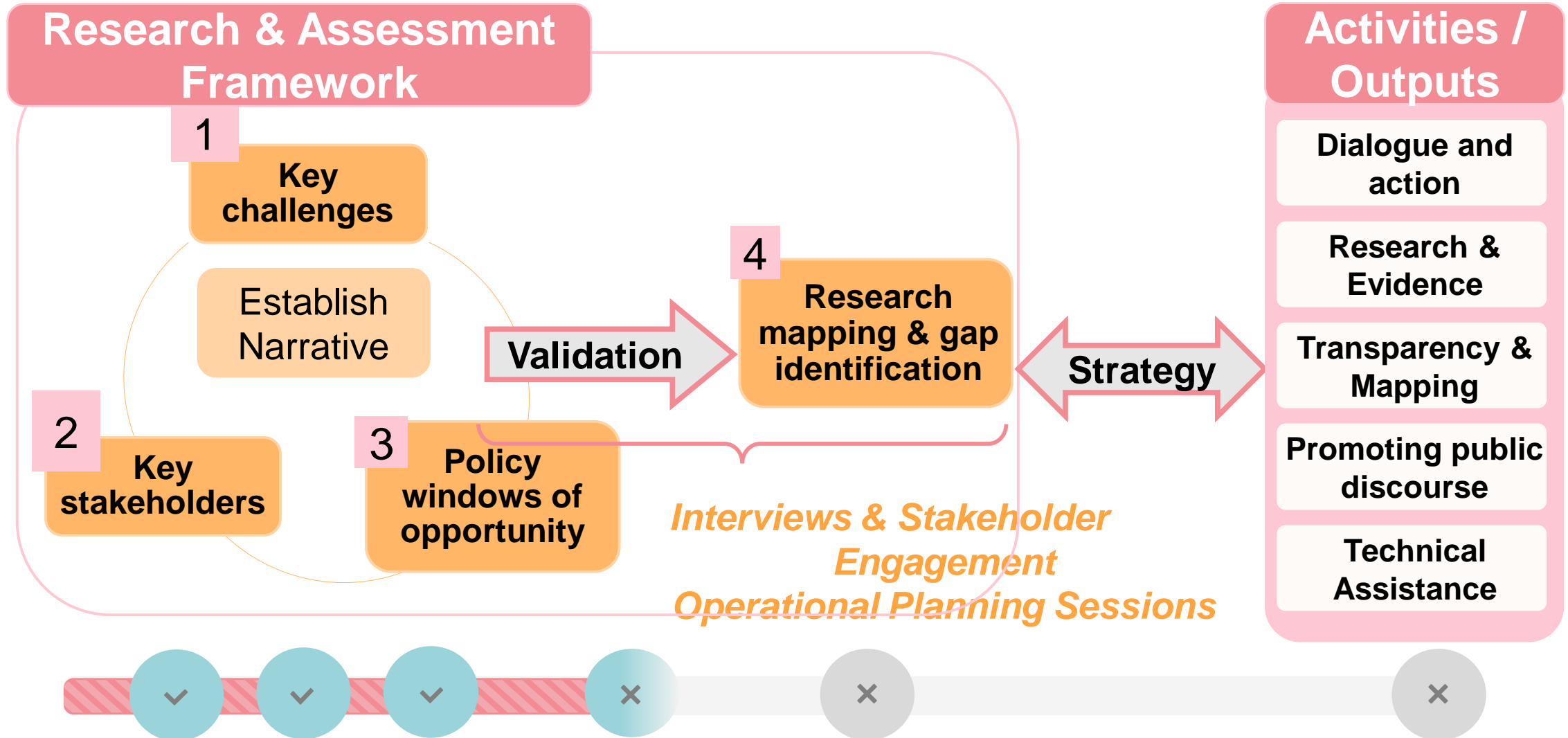
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# CASE Indonesia Analysis (2020): Challenges to Decarbonize the Power Sector



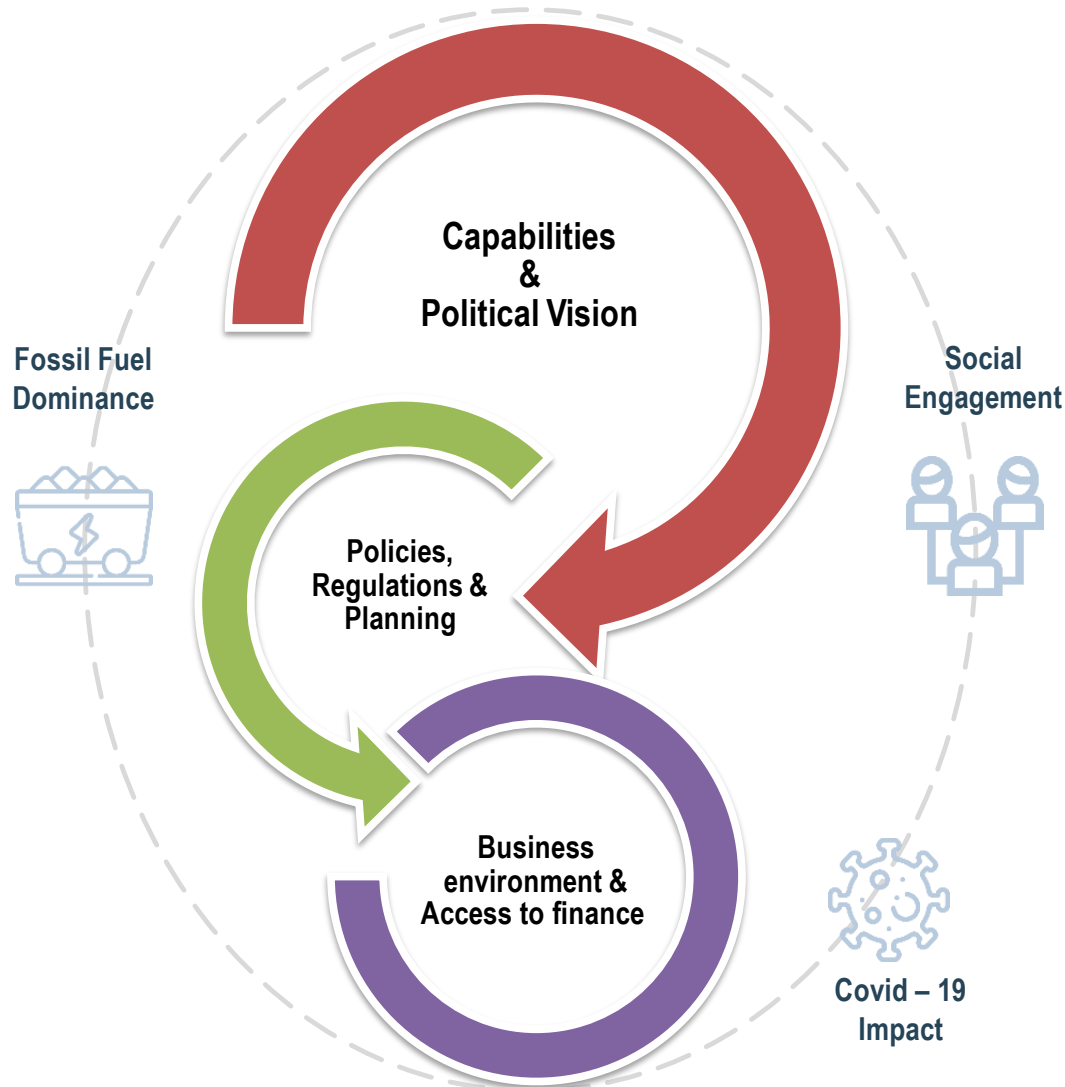
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- Stakeholder's **knowledge & awareness**
- **Sector coordination and dominant sectoral agendas** in the Energy Transition
- Cross-sector **alignment & consistency** of policies and strategies
- Fossil fuel **dominance** and infrastructure **lock-in**;
- Inclusion of energy transition in **Green recovery**
- Consideration and technology application **decentralized RE** options
- **Access to finance**
- **Low ease of business making & insufficient business environment**

# Windows of Opportunity

## Supporting Policy Processes



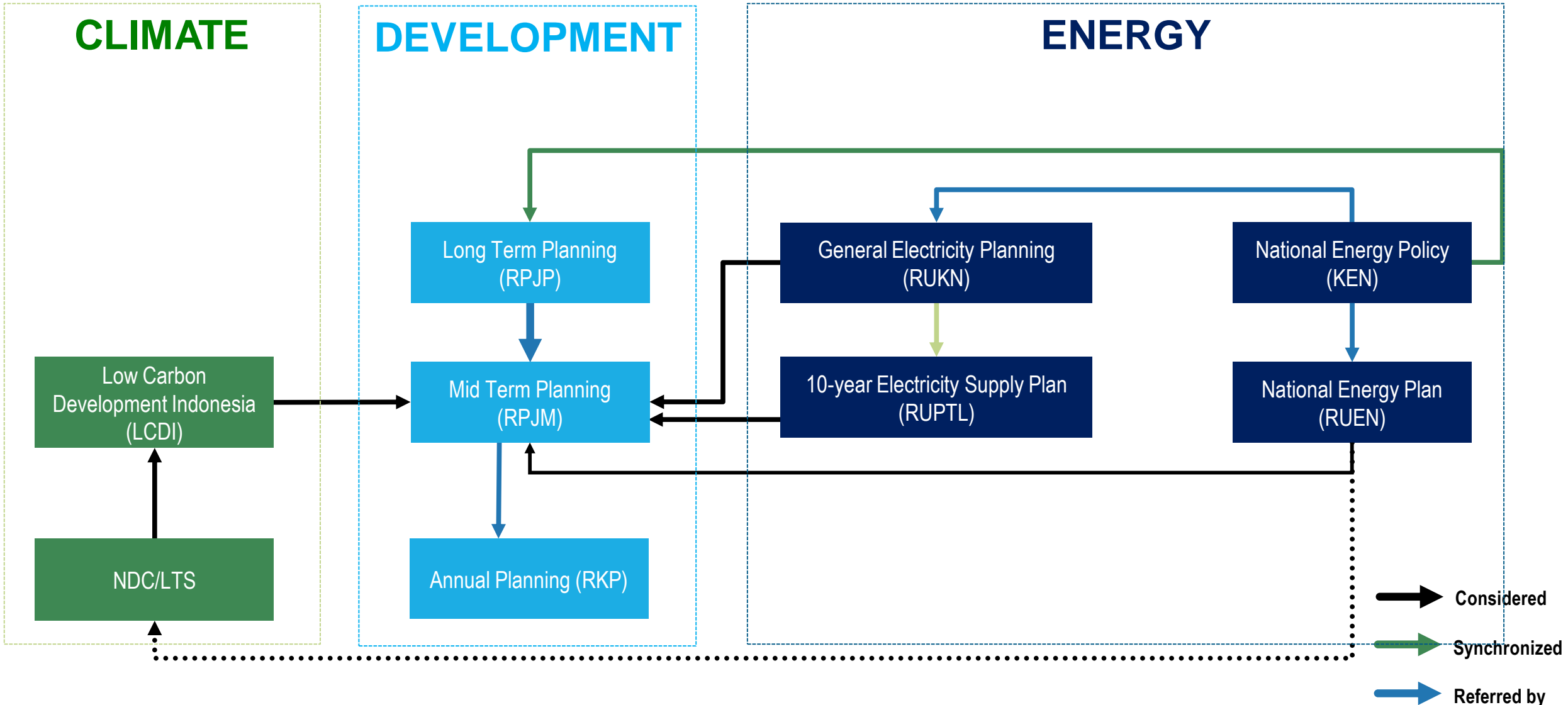
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# Major Themes for Indonesia



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## Themes in Indonesia



## Regional Activities

### CASE Knowledge Platform

- Power Sector Tracking Tool
- Stakeholder & activity mapping database
- ...

### Energy Transition Platform for SEA

- Interactive, collaborative platform for energy / power sector transition issues in SEA



# Next Steps



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- From Challenges and Broader Themes to Activities
- Stakeholder Discussions: Operational Planning Sessions
- Start Implementation of CASE Indonesia!



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# Thank you

**Lisa Tinschert**

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GIZ Energy Programme Indonesia/ASEAN

**giz** Deutsche Gesellschaft  
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Zusammenarbeit (GIZ) GmbH

