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# Green Electricity Demand for a Green Economy [Green Industry Sub-committee]

GIZ Thailand

on behalf of Clean, Affordable and Secure Energy (CASE) for Southeast Asia



# Green Electricity Demand for a Green Economy

## CASE Green Industry Sub-committee

### Background & Context

- The transition toward green electricity is a key driver of Thailand's green economy.
- More than **200+ companies**, including Delta, participated in the study.
- The study aims to understand the **clean electricity demand of Thailand's industrial sector**.



### Industrial Sectors Covered

- Automotive
- Electronics
- Food & Beverage
- Chemicals & Petrochemicals
- Healthcare



### GIZ' Role

We will stand with Thailand as a **knowledge partner, financier, and convener** — supporting its journey toward a green, competitive, and inclusive economy.

#### We will help unlock all key areas:

- Advanced and green manufacturing
- Digital trade and data foundations
- Traceable food systems
- The **skills pipelines** to staff them.



### Objective of the Study

- Assess the impact of renewable electricity adoption on **GDP, employment, and industrial competitiveness**.
- Analyze **renewable electricity demand** across major industrial sectors.
- Identify **risks and opportunities** for competitiveness during the green transition.
- Provide **policy frameworks and support mechanisms** to accelerate the clean energy transition.

# Purpose and methodology

## Why identify key industries?

To prioritize and calibrate the national green electricity transition strategy, it is essential to focus on industries with the highest electricity demand and potential for impactful decarbonization. **These industries will serve as the foundation for deeper assessments, scenario modeling, and stakeholder engagement.**

## How were they selected?

**A high-level screening methodology is developed using a set of strategic criteria:** electricity intensity, emissions reduction potential, technology factors, economic contribution, and future growth potential. Each industry is scored on a high/medium/low scale across these criteria, with weighted importance applied to reflect relative influence.

## What are the results?

Five key industries emerge as high-potential candidates for Thailand's green electricity transition: **automotive, semiconductors, rubber, food & beverage, construction and construction materials (cement).** South Pole has also identified large-scale companies within each of these sectors to target for further engagement through surveys and interviews.

# Green Electricity Demand for a Green Economy

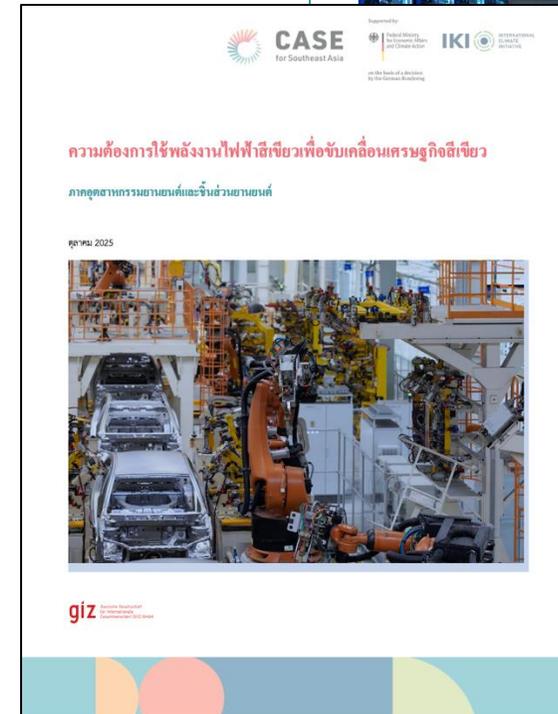
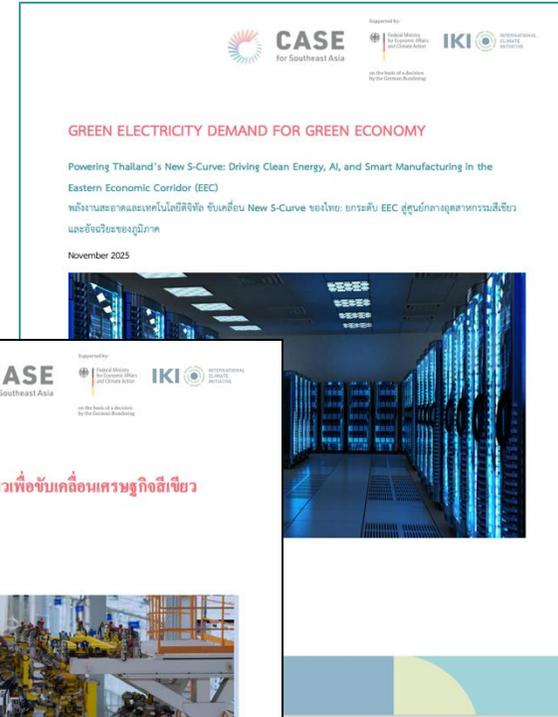
## Stakeholder Consultation Timeline – 2026



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On behalf of



of the Federal Republic of Germany

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