



ENERGY
TRANSITION
PARTNERSHIP

Powering Prosperity and Enabling Sustainability in Southeast Asia

The ETP brings together a range of partners focused on supporting the energy transition in Southeast Asia including:



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History



Fund
Manager



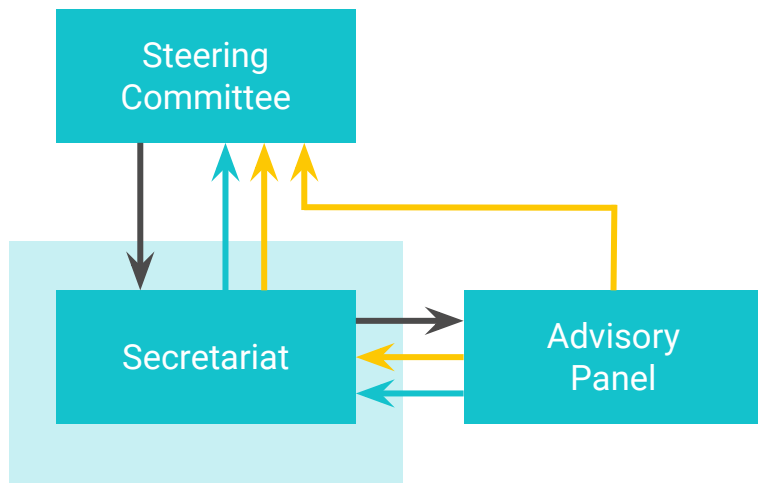
Duration of the
Partnership



Countries of
Operations



Organization



- GUIDES
- ACCOUNTABLE TO
- SUPPORTS

The ETP **Steering Committee** (Donors) is the highest decision-making body for all strategic concerns and approvals for the ETP technical assistance projects.

The ETP **Secretariat** implements our projects, coordinates with aligned programmes and conducts dialogues with the energy transition partners and stakeholders to encourage the integration of renewable energy into the energy mix in Southeast Asia. The Secretariat is also fully responsible for daily management and operation of the SEA ETP Programme, and supports the SEA ETP Steering Committee.

The work of the Secretariat and Steering Committee is supported by an **Advisory Panel** created of energy experts providing strategic and programmatic advice to ensure successful implementation of the programme. Our country partners are internationally acknowledged as leaders and subject-matter experts in areas such as policy, economics, finance, energy or other cross-cutting themes.



Aligning EE/RE policies with climate commitments

We provide high level technical advisory support to improve RE and EE policies, regulations and laws. We work towards aligning energy policy targets with climate action commitments.



De-risking EE/RE investments

We aim to unlock large-scale renewable energy investments by national and international financial institutions, while increasing de-risking of projects and making them bankable.



Expanding sustainable resilient infrastructure - smart grids

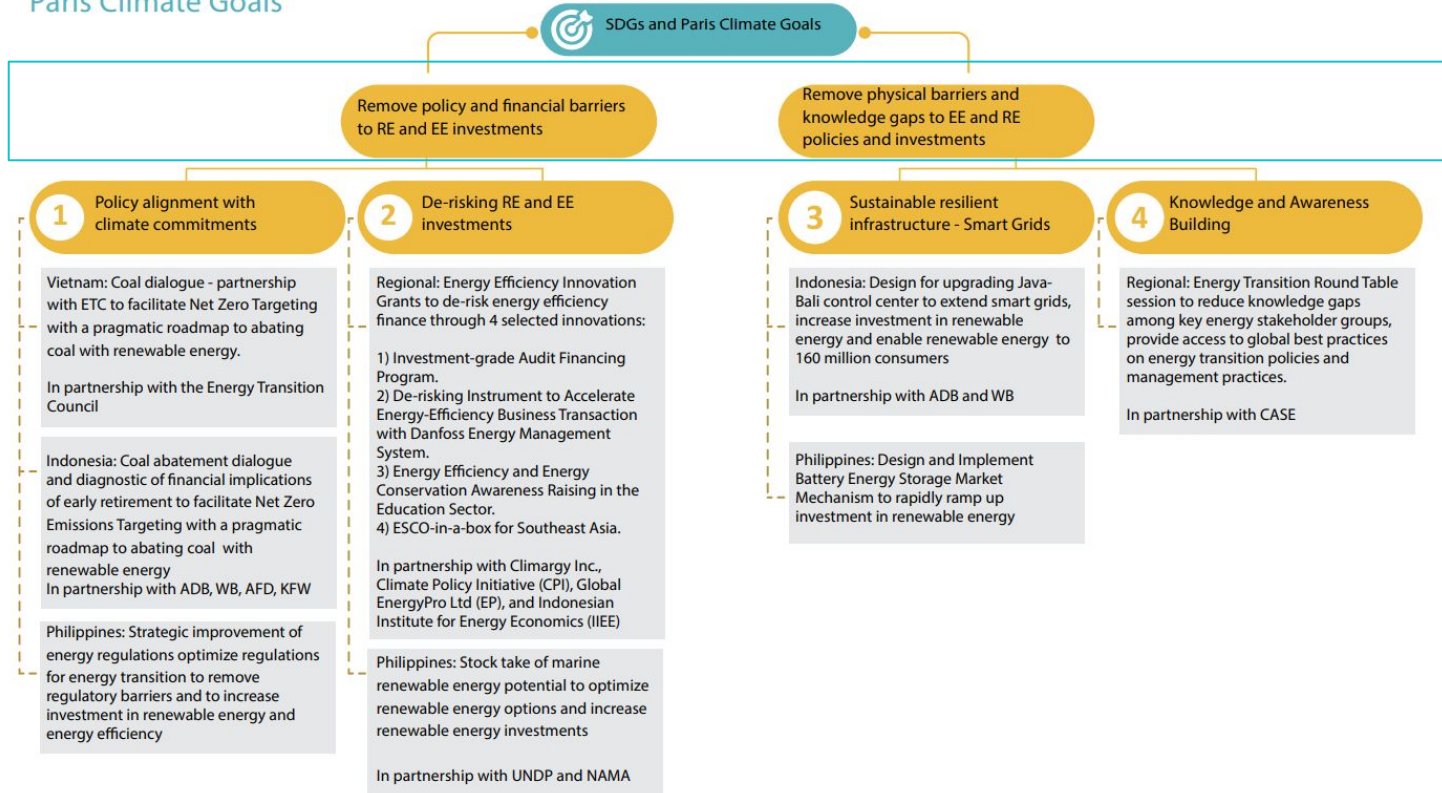
We provide technical solutions to expand smart grids, enable evidence-based planning for national grid systems, and provide capacity building for grid operators.



Knowledge, skills, awareness and capacity development

We developed a comprehensive platform to foster knowledge. We build technical and technology expertise through education programmes and establish state-of-the art centres of excellence.

Highlights of 2021: ETP Program Aims at the Sustainable Development Goals and Paris Climate Goals





Indonesia

- Started in October 2021, PLN announced its business plan (RUPTL) by prioritizing the additional renewable energy electricity up to 52% compared to the 34% coal-fired power plants.
- In September 2022, Indonesia stipulated Presidential Regulation No.112/2022 concerning the RE electricity price and mandating the establishment of a roadmap of early CFPP retirement.
- Revised its enhanced NDC and increased its commitment to reduce the CO2 emissions from 29% to 31.89% (unconditionally) and from 41% to 43.20% (conditionally).
- The JETP was announced with a USD 20 billion commitment to reach a peak emission of 290 million ton CO2 and increasing the share of RE power up to 34% in 2030.

Vietnam

- Just Energy Transition Partnership for Vietnam (JETP) was announced in December 2022.
- From the current net-zero planning peak of 240 MtCO_{2e} by 2035 with international support (down from 280 MtCO_{2e} before COP26) towards reaching a peak of no more than 170 MtCO_{2e} emissions from electricity generation by 2030.
- The country's project pipeline for coal-fired generation, currently standing at a planned capacity peak of 37GW, will be reduced towards a peak of 30.2 GW.
- The goals are challenging for Vietnam given the fact that the legal framework to facilitate rapid energy transition have either not been in place.

Philippines

- The Philippines instituted a new government in 2022.
- The Renewable Portfolio Standard (RPS), from a minimum of 1% to 2.52% annual increments.
- The first Green Energy Auction was held in mid-2022 for a total of 2,000 MW of renewable capacity
- 100% foreign ownership of solar, wind, ocean, and hydro facilities has been allowed.
- Partnerships in developing floating solar, onshore and offshore wind, electric vehicles as well as nuclear energy in the country.
- Renewables is expected to lead to additional capacities in the next 5 - 10 years.

Country targets



By 2030

- 75% GHG emissions reduction (2.71% unconditional)
- 35% RE in the power generation mix

By 2040

- 5% energy savings
- 50% RE in the power generation mix



By 2025

- 23% RE shares in the TPES
- 17% energy saving from the BAU scenario of total final energy consumption

By 2030

- 290 million tonne CO₂ peak emission in the power sector
- 34% additional RE power plant in the generation mix
- Enhanced nationally determined contribution at 31.89% for unconditional and 43.20% for the conditional conditions, for GHG emissions reduction

2050

Net zero emissions



By 2030

- 43.5% GHG emissions reduction
- Peak emission of 170 MtCO₂e, at least 47% electricity generation is attributed to renewable energy; peak coal capacity of 30.2 gigawatts

By 2050

Net zero emissions



Challenges

- ❖ Policies and regulations not harmonized
- ❖ **Delayed and weak enforcement of policies**
- ❖ Electrification reliant on diesel

What needs to be done

- ❖ **Support shift of fossil fuel use to renewable sources of energy**
- ❖ **Long-term clean energy planning embedded into policymaking**
- ❖ Remove regulatory barriers to increase smart grid investments
- ❖ Remove contradictions for VRE
- ❖ Improve competition in the generation sector
- ❖ Address ESCO procurement barriers in the public sector
- ❖ Fully harmonized EE labelling with ASEAN standard



ETP Interventions

- ❖ **Accelerating the Clean Energy Scenario with the DOE**
- ❖ Upgrading Energy Regulations for the ERC Capacity Building
- ❖ Review of Market Mechanisms for BESS
- ❖ Demand Side Management Policy
- ❖ Power Sector Assessment and RE Roadmap for Bangsamoro Region (BARMM)

Outcomes

- ❖ **More ambitious renewable energy targets**
- ❖ A roadmap for RE replacement of fossil fuel
- ❖ Aligned policy and regulations that encourages greater participation, and improves competition in the generation sector
- ❖ Stronger implementation of energy efficiency policies





Challenges

- ❖ **Energy plans with different targets**
- ❖ Electricity oversupply due to untransparent electricity business planning
- ❖ Coal Domestic Market Obligation (DMO) challenged RE development
- ❖ Untapped carbon market potential to fund RE development

What needs to be done

- ❖ **Overarching and streamlined government energy plans**
- ❖ Investment plan for early coal power retirement and RE power plant development based on transparent energy/electricity planning
- ❖ Restructuring coal Domestic Market Obligation(DMO)
- ❖ Development of carbon trading
- ❖ Power wheeling mechanism



ETP Interventions

- ❖ **Streamlining GOI energy plans on NZE target and national development plan**
- ❖ Financial impact of early CFPP retirement
- ❖ Integrated energy model with spatial tool
- ❖ Restructuring coal DMO
- ❖ Carbon trade mechanism (pilot project for SOE)
- ❖ Diagnostic of competitive arrangements for energy transition

Outcomes

- ❖ **GOI energy plans in achieving NZE target streamlined and enacted by Government Regulation**
- ❖ Clear and sound investment pathway for retiring coal power plant
- ❖ Better and more transparent energy/electricity plans guiding investment
- ❖ Establishment of pilot project on SOE carbon trading
- ❖ Guidance of power wheeling implementation



Challenges

- ❖ Country is heavily dependent on coal for electricity production
- ❖ **Lack of regulatory frameworks and support instruments to facilitate just energy transition**

What needs to be done

- ❖ **Policies: Strategies to move away from fossil fuels, and need for energy efficiency policies.**
- ❖ **Legal framework : Regulations for carbon pricing, market systems, and grid investment.**

ETP Interventions

- ❖ Net-zero study for the energy sector
- ❖ **Carbon tax and market implemented**
- ❖ **Coal, oil and gas industries net-zero transition strategies**

Outcomes

- ❖ Coal abatement scenario analysis for net-zero emission roadmaps
- ❖ SOEs strategies and NZE compliant
- ❖ Carbon tax designed and carbon market developed
- ❖ Inputs for just transition roadmap for coal, oil and gas industries
- ❖ Inputs for Legal framework development for auction mechanism



Energy Efficiency Innovation Window & Diagnostic Review

This project provides an effective pathway through which ETP can provide early-stage grant financing for innovative approaches to address the systemic problem of under-investment into energy efficiency in Southeast Asia.



Energy Transition Roundtable

This Project provides for a tailored professional forum for high caliber exchange of information to develop leadership among the region's energy transition stakeholders, endowing these with the latest context for and tools to address the issues they are challenged in their daily energy transition activities

Global Platform

This project will provide a consortium of several governments and philanthropic organizations that have come together to pursue energy transition in the Region with blended resources and efforts to generate coordination outcomes



Diagnostics for Competitive Arrangements for Energy Transition

This analysis will conduct stocktake assessment of current state and conditions of energy market mechanisms in the Region with the objective to improve competitiveness and expand RE in the Region's energy mix.

Indonesia



- Detailed Design to Upgrade the Java-Bali Control Centre
- Study of the Financial Implications of the Early Retirement of Coal-fired Power Plants
- Pilot Guarantee Instrument for Access to Energy Efficiency Finance
- Energy Conservation Awareness in the Education Sector

Regional

- Energy Transition Roundtable
- Diagnostic Review of Barriers and Opportunities for Energy Efficiency Investments

Vietnam



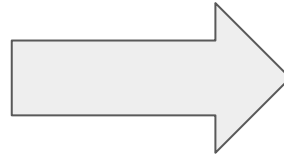
- Roadmap for the Commission for Management of State Capital toward Net-Zero Emission in Energy State-Owned Enterprises
- Criteria for Survey Licensing for Offshore Wind Development
- Impact Assessment of EU's Carbon Border Adjustment Mechanism
- Legal Support to the Development of Power Generation Projects in Vietnam

The Philippines



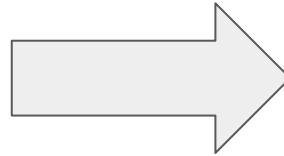
- Philippines Battery Energy Market Mechanism Support Program
- Upgrading Energy Regulations for the Energy Regulatory Commission of the Philippines
- ESCO-in-a-box for Southeast Asia for a Super-ESCO
- Investment-Grade Audit Energy Efficiency Finance Program
- Philippines Grid Diagnostic and Roadmap for Smart Grid Development

Gaining a comprehensive understanding of the transformative capacity of electricity within the specific context of developing countries.



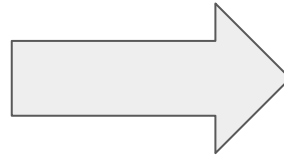
Conducting thorough and multidisciplinary studies to assess the technical, economic, socio-political, and geo-strategic implications of different alternatives for fulfilling the country's electricity requirements.

Recognizing the multifaceted impacts of the transition, including the potential adverse consequences on economic development and employment due to the decline of the coal industry.



Establishing a transition policy framework that prioritizes inclusivity and equity as guiding principles for the process of Just Energy Transition.

Anticipating a substantial surge in the demand for financial assistance and knowledge-sharing mechanisms to effectively address the challenges arising from the transition.



Enhanced international collaboration across all levels of governance, business sectors, and civil society to effectively address the challenges associated with the electricity transition.



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Thank you

Join ETP and be part of
shaping a clean tomorrow

Sumali sa ETP at maging bahagi ng paghubog
sa isang malinis ng kinabukasan • Bergabunglah
dengan ETP dan menjadi bagian untuk membangun
masa depan yang lebih bersih • Tham gia
ETP và cùng kiến tạo một ngày mai trong lành

www.energytransitionpartnership.org





ETP Mission

Theory of Change

To Paris Climate Goal

Energy transition in Southeast Asia is critical to limiting global warming of the planet to less than 1.5°C and to achieving the Paris Agreement Goals

- **Championing leadership:** Ambitious NDCs
- **Capacity building:** Breaking through policy barriers
- **Finance:** Investment in renewable energy, energy efficiency, smart grids, and knowledge





About us

Introduction

Powering prosperity
for sustainable growth

The Southeast Asia Energy Transition Partnership (ETP) is a five-year, multi-donor partnership formed by governmental and philanthropic partners to accelerate sustainable energy transition in Southeast Asia in line with the Paris Agreement and Sustainable Development Goals.

We combine the best of the public and private sector with the UN to help mobilize and coordinate technical and financial resources to build the foundations for renewable energy, energy efficiency and sustainable resilient infrastructures.

We empower our partner countries - Indonesia, Vietnam and the Philippines to transition towards a sustainable energy system, generate economic growth and ensure energy security.



New innovative platform



Think Tanks

Provides evidence-based research, and cooperates between key stakeholders' activities to facilitate the energy transition in SEA



Promotes government policy reform and regulatory adjustments; de-risking of RE and EE projects for investment



Civil Society

Provides demand for a direct transition, enables rapid change, and beneficiary engagement in cost recovery enabling improved policy conditions for a just transition and employment-rich growth



Private Finance

Provides financing and effective management for the implementation of RE and EE investment pipelines