

IEA Demand Side Data and Energy Efficiency Indicators Workshop for Southeast Asia

10-12 June 2025

15:00-17:00 Each day (Singapore time – online)

Why demand side data are important?

Understanding energy demand is key to building reliable, efficient, and sustainable energy systems. Demand-side data offers valuable insights into when, where, and how energy is used, supporting smarter planning, peak load management, and grid resilience. It enables better integration of renewables, targeted demand response, and energy conservation efforts. By providing detailed insights into energy consumption, demand-side data enables policymakers, researchers, and industry stakeholders to make informed decisions, track progress, and implement effective strategies. By revealing shifts in usage patterns, this data also helps assess the impact of policies, technologies, and consumer behaviour over time—making it essential for a more adaptive and secure energy future.

Reliable demand-side data also improves energy modelling, allowing for more accurate projections of future energy needs. These projections are essential for scenario development, infrastructure planning, and ensuring a stable and efficient energy supply.

Detailed demand-side energy data, coupled with activity data, enables the development of energy efficiency indicators that track progress and measure improvements over time. These indicators help distinguish between changes in energy consumption due to efficiency improvements and those driven by factors such as economic activity, structural shifts, or behavioural changes. This analysis is critical for estimating the actual energy savings achieved through efficiency measures, ensuring that the impact of policies and initiatives is accurately assessed. Efficiency indicators serve various purposes, including policymaking, monitoring targets, making energy projections, scenario development and planning, and benchmarking.

Objectives

The objective of this workshop is to build capacities in the Southeast Asian countries for production of accurate demand side energy data and efficiency indicators, in accordance with international standards, to serve better the national policy needs.

The workshop will provide participants with an understanding of the theory of data compilation in three sectors: buildings, industry, and transport. Beyond transmitting the theory, the goal is to motivate the countries to collect demand side energy data and build energy efficiency indicators in each of the sectors.

Organisation of the programme

The workshop will be conducted over three days with each day focusing on a different sector: i) industry; ii) buildings and iii) transport. Each section covers several questions: What additional insights can we learn from demand side energy data and efficiency indicators? How do we collect data? Why are these data important for policymaking and policy evaluation?

The IEA has been working on data in the region over an extended period, most recently with a particular focus on energy demand data and efficiency indicators. Its strategic partner for energy data activities, Asia-Pacific Economic Cooperation (APEC), will contribute to the workshop by delivering targeted presentations on regional practices and lessons learned in end-use data collection and analysis.

Targeted participants

The targeted participants of the workshop are producers and users of demand side energy data and efficiency indicators from national statistical offices, ministries in charge of energy and other relevant institutions, from Southeast Asian countries and from India.

Registration to workshop is available under [this link](#).

Organizer of the workshop

The [International Energy Agency](#) is at the heart of global dialogue on energy, providing authoritative analysis, data, policy recommendations, and real-world solutions to help countries provide secure and sustainable energy for all. The IEA recently opened its first office outside of its headquarters in Paris.

The new [Regional Cooperation Centre based in Singapore](#) marks a pivotal step in bringing the IEA closer to its partners in Southeast Asia and beyond. The Centre will help deepen longstanding relationships and serve as a hub for the IEA's activities and engagement in the region, providing policy guidance, technical assistance, training and capacity building across areas such as scaling-up the deployment of renewables and other clean energy technologies, increasing cross-border power trade, and improving access to finance for clean energy investment.

The [Clean Energy Transitions Programme](#) (CETP) is the IEA's flagship programme for taking action to achieve a clean energy transformation worldwide. CETP leverages the insights and influence of the world's leading energy authority to accelerate clean energy transitions, particularly in emerging and developing economies. Activities include data and analytical work, technical cooperation, policy advice and implementation, tracking the scale and speed of transitions, training and capacity building, and strategic/political dialogues.

Agenda

June 10-12, 2025

Day 1: 10 June 2025 – Focus on industry

Chair: Roberta QUADRELLI

Time (SGT)*	Content	Presenter
15:00 – 15:05	Welcome from the IEA	Roberta QUADRELLI, IEA Natalie KAUF, IEA
15:05 – 15:15	Importance of demand side data and indicators for policy - industry	Renee STEPHENS, IEA
15:15 – 16:30	What can we learn from the energy balances? What additional insights can we learn from demand side energy data and efficiency indicators in industry? How can we collect industry data? Q&A	Agnieszka KOSCIELNIAK, IEA Thomas ELGHOZI, IEA
16:30 – 16:40	Demand side data and efficiency indicators in APEC	Matthew DUMLAO, APEC
16:40 – 16:50	Country presentation	Ministry of Energy and Mineral Resources, Indonesia
16:50 – 17:00	Conclusion of the workshop and group photo	Roberta QUADRELLI, IEA

**All times are reflected in local Singapore time (SGT)*

Day 2: 11 June 2025 – Focus on buildings

Chair: Roberta QUADRELLI

Time (SGT)	Content	Presenter
15:00 – 15:05	Welcome from the IEA	Roberta QUADRELLI, IEA Natalie KAUF, IEA
15:05 – 15:15	Importance of demand side data and indicators for policy – buildings	Renee STEPHENS, IEA
15:15 – 16:30	What can we learn from the energy balances? What additional insights can we learn from demand side energy data and efficiency indicators in buildings? How can we collect building sector data? Q&A	Sonia GARCIA LORENZANA, IEA Agnieszka KOSCIELNIAK, IEA
15:20 – 16:30	Demand side data and efficiency indicators in APEC	Elvira GELINDON, APEC
16:40 – 16:50	Country presentation	The Department of Energy, Philippines
16:50 – 17:00	Conclusion of the workshop and group photo	Roberta QUADRELLI, IEA

Day 3: 12 June 2025 – Focus on transport

Chair: Roberta QUADRELLI

Time (SGT)	Content	Presenter
15:00 – 15:05	Welcome from the IEA	Roberta QUADRELLI, IEA Natalie KAUF, IEA
15:05 – 15:15	Importance of demand side data and indicators for policy - transport	Renee STEPHENS, IEA
15:15 – 16:30	What can we learn from the energy balances? What additional insights can we learn from demand side energy data and efficiency indicators in transport? How can we collect transport data? Q&A	Thomas ELGHOZI, IEA Agnieszka KOSCIELNIAK, IEA
15:20 – 16:30	Demand side data and efficiency indicators in APEC	Edito BARCELONA, APEC
16:40 – 16:50	Country presentation	India, Bureau of Energy Efficiency, Energy Data Management Unit
16:50 – 17:00	Conclusion of the workshop and group photo	Roberta QUADRELLI, IEA