



BUREAU OF ENERGY RESOURCES OF THE
UNITED STATES DEPARTMENT OF STATE



Clean EDGE Asia Conference

Energy Transitions and Equitable Development in Southeast Asia

January 30-31, 2024

Day 1 | 9:30 a.m.–6:00 p.m.

Day 2 | 9:30 a.m.–4:30 p.m.

At the Mandarin Oriental, Jakarta, Indonesia
Diponegoro and Imam Bonjol Rooms (Level 3)

Hosted by The National Bureau of Asian Research

By midcentury, the growing economies of the Indo-Pacific will account for over half of global energy consumption and will collectively be the largest energy importers in the world. Rising energy demand from these economies coincides with worldwide efforts to reduce carbon emissions, creating a challenging balancing act between security and sustainability across the region. Given that Southeast Asian countries have a wide range of energy demands and transition pathways, they offer a strong forum for policy discussions at a pivotal moment.

Indonesia has assumed a leading role in regional and international energy transition efforts, hosting the 2022 G-20 Presidency and the ASEAN Summit in 2023. It also leads the Indonesian Just Energy Transition Partnership (JET-P) in collaboration with the International Partners Group. The **2024 Clean EDGE Asia Conference** will be held in Jakarta and will bring together key stakeholders, technical experts, and policymakers from Southeast Asia, the United States, and across the Indo-Pacific to discuss priorities, lessons learned, and challenges faced during their respective energy transitions. With the objective of improving collective understanding and producing actionable policy recommendations to support and accelerate Southeast Asia's equitable energy development, the conference will be held in the wake of COP28 and on the eve of Indonesia's national election.

Day One

9:30 a.m.–9:35 a.m.

Welcome and Opening Remarks

Roy Kamphausen

The National Bureau of Asian Research

9:35 a.m.–10:20 a.m.

Opening Keynote Remarks

Representatives from the U.S. and Indonesian governments will share updates on the state of energy transitions and equitable development locally and within the region, highlighting how the two countries can further collaborate to facilitate and accelerate energy transitions in the Indo-Pacific.

Minister Arifin Tasrif

Ministry of Energy and Mineral Resources, Republic of Indonesia

Jason Rebholz

Acting Deputy Chief of Mission, U.S. Embassy Jakarta, Republic of Indonesia

Kate Rebholz

Chargé d’Affaires ad interim, U.S. Mission to ASEAN

Moderated by Roy Kamphausen

The National Bureau of Asian Research

10:20 a.m.–11:35 a.m.

Panel I

Southeast Asia in the Energy Transition

Recent developments in Southeast Asia make the current discussion on energy transitions very timely. Indonesia’s 2022 G-20 presidency, Vietnam’s publication of its 8th Power Development Plan, ASEAN’s growing ambitions to reach net zero by 2050, and commensurate investment from international partners via the United States’ Just Energy Transition Partnership, Japan’s Green Transformation Policy, and South Korea’s New Southern Policy have all helped build momentum. This panel will explore the current state of play across Southeast Asia at a pivotal moment in energy development.

Moderator:

Clara Gillispie

The National Bureau of Asian Research

Panelists:

Siripha Junlakarn

Energy Research Institute, Chulalongkorn University

Hakimul Batih

The Organization for Economic Cooperation and Development

Lixia Yao
Energy Studies Institute, National University of Singapore

11:35 a.m.–11:50 a.m. **Break**

11:50 a.m.–12:50 p.m. Panel II

Development Financing

To meet the Paris Agreement goals of net-zero emissions by midcentury, countries in Southeast Asia and across the Indo-Pacific will require trillions of dollars in investment to fund equitable regional energy transitions. While national and multilateral banks will be key facilitators of this funding, significant volumes of private investment must be unlocked to finance massive infrastructure developments required for new energy systems. This panel will examine the barriers to energy investment and equitable development in the region.

Moderator: Angga Antagia
US-ASEAN Business Council

Panelists: Yoshio Ohkawa
Japan Bank for International Cooperation

Lazeena Rahman
Asian Development Bank

Sylvi Gani
PT Sarana Multi Infrastruktur (Persero)

12:50 p.m.–1:50 p.m. **Lunch Break**

1:50 p.m.–2:20 p.m. **Lunch Keynote**

Gigih Udi Atmo
Director of Energy Conservation, Ministry of Energy and Mineral Resources, Republic of Indonesia

Moderated by Soichiro Shibata
Monitor Deloitte

2:20 p.m.–3:20 p.m. Panel III

Pathways to Net Zero: The Role of Fossil Fuels in the Indo-Pacific

The release of greenhouse gases from the burning of fossil fuels is the primary driver of climate change, making fossil fuel phasedown a growing imperative as countries seek to decarbonize their economies. However, existing infrastructure, economic dependencies, and energy resource insecurity prompted by tumultuous geopolitical dynamics have made it difficult for developed and developing nations alike to decrease fossil fuel consumption and production. This session dissects the complex role fossil fuels continue to play in the Indo-Pacific amid national and regional energy transitions.

Moderator: Eniya Listiani Dewi
National Research and Innovation Agency, Republic of Indonesia

Panelists: Vandana Hari
Vanda Insights

Paul Everingham
Asia Natural Gas & Energy Association

Aang Darmawan
Energy Transition Partnership, United Nations Office for Project Services

3:20 p.m.–3:40 p.m. Break

3:35 p.m.–4:35 p.m. Panel IV

New Energy Technologies: Hydrogen

As countries throughout the Indo-Pacific strive to transition to low- and zero-carbon economies, hydrogen has emerged as a critical element in decarbonization strategies for various sectors such as industry, transportation, and power generation. Hydrogen’s ability to store—and transport—energy has the potential to dramatically accelerate renewable energy integration. While conventional hydrogen production methods rely on fossil fuels, “clean” hydrogen is produced through carbon-free processes like electrolysis, utilizing renewable energy or nuclear resources. This session will focus on the potential role for hydrogen during energy transitions in the region.

Moderator: Saifuddin Suaib
HDF Energy

Panelists: Zainal Arifin
PT PLN (Persero)

Andriah Feby Misna
Ministry of Energy and Mineral Resources, Republic of Indonesia

Ngoan Thi Nghiem
GIZ, Vietnam

4:40 p.m.–4:45 p.m. Closing Remarks

Gillian Zwicker
The National Bureau of Asian Research

4:45 p.m.–6:00 p.m. Networking Reception

Day Two

9:30 a.m.–9:35 a.m. Welcome Remarks and Recap

Gillian Zwicker
The National Bureau of Asian Research

9:35 a.m.–10:05 a.m. Keynote Remarks

Jodi Mahardi
Deputy Coordinating Minister, Coordinating Ministry for Maritime and Investment Affairs, Republic of Indonesia

Moderated by Eloïse O’Carroll
European Union Delegation to Indonesia

10:05 a.m.–11:05 a.m.

Panel V

New Energy Technologies: CCS and SMRs

As countries seek to decrease economy-wide greenhouse gas emissions while simultaneously meeting the demands of increasing energy consumption, carbon capture and storage (CCS), small modular reactors (SMRs), and other innovative energy transition

technologies will play important roles in near-term efforts to transition to net-zero emissions, while also enabling economic development. This panel will examine how Southeast Asian countries can implement these technologies locally and how partners like the United States can support their deployment and utilization.

Moderator: Alloysius Joko Purwanto
Economic Research Institute for East Asia and ASEAN

Panelists: Belladonna Troxylon Maulianda
Indonesia Carbon Capture and Storage Center

Rohadi Awaludin
National Research and Innovation Agency, Republic of Indonesia

Han Phoumin
Economic Research Institute for East Asia and ASEAN

11:05 a.m.–11:25 a.m. Break

11:25 a.m.–12:25 p.m. Panel VI

Critical Mineral Supply Chains

Critical minerals are a vital, but potentially limiting, resource in the global energy transition, as they make up essential components in renewable energy technologies like solar panels, electric vehicle batteries, and electricity infrastructure. Indonesia is endowed with significant deposits of several of these minerals. This panel will examine lessons learned from the United States' experience with the procurement of critical minerals, as well as Indonesia's specific policies and the broader requirements of Southeast Asian countries as suppliers and consumers of these minerals.

Moderator: Bill Rising
Freeport-McMoRan

Panelists: Satya Widya Yudha
National Energy Council, Republic of Indonesia

Niharika Tagotra
World Resources Institute, India

Laura Schwartz
Verisk Maplecroft

12:25 p.m.–1:25 p.m.

Lunch Break

1:25 p.m.–1:55 p.m.

Lunch Keynote

Dino Patti Djalal
Founder, Foreign Policy Community of Indonesia

Lydia Ruddy
AmCham Indonesia

1:55 p.m.–2:55 p.m.

Panel VII

Ensuring a Just Transition

Around the globe, governments are grappling with the dual tasks of maintaining and improving economic development, while transitioning entire economies—and populations—to new, low-emitting energy sources and technologies. This session will explore the challenges that local communities in the United States and Southeast Asia face during their respective transitions and probe potential avenues for international collaboration to ensure equitable development.

Moderator:

Rizky Fauzianto
Rocky Mountain Institute

Panelists:

Jennifer Hengstenberg
Climate Officer, U.S. Department of State

Mirza Sadaqat Huda
ISEAS-Yusof Ishak Institute

Moekti Handajani Soejachmoen
Indonesia Research Institute for Decarbonization

2:55 p.m.–3:10 p.m.

Break

3:10 p.m.–4:00 p.m.

Panel VIII

A Call to Action

This session will call on speakers and participants alike to synthesize insights gained from the previous sessions with the objective of identifying several actionable recommendations for Southeast Asian countries to accelerate regional equitable energy transitions. The session will also offer recommendations for partners like the United States and private sector players as supporters and facilitators.

Moderator: Tom Cutler
Cutler International LLC

Panelists: Andhika Prastawa
The Indonesian Institute for Energy Economics

Christopher Feather
Trade and Commerce, U.S. Embassy Jakarta

Meredith Miller
DGA-Albright Stonebridge Group

4:05 p.m.–4:25 p.m. Closing Keynote Remarks

Dadan Kusdiana
*Secretary General, Ministry of Energy and Mineral Resources,
Republic of Indonesia*

Moderated by Roy Kamphausen
The National Bureau of Asian Research

4:25 p.m.–4:30 p.m. Closing Remarks

Roy Kamphausen
The National Bureau of Asian Research