



**INTERNATIONAL CONFERENCE**  
**INCLUSIVE ENERGY TRANSITIONS IN SOUTHEAST ASIA AND BEYOND**  
*Cross-Regional Learning from South Asia*  
**10-12 FEBRUARY 2026, JAKARTA, INDONESIA**

**A. An Inclusive and Just Energy Transition in Southeast Asia: Opportunities and Challenges**

1. Southeast Asia's Energy Transition Landscape. The global energy transition presents both opportunities and challenges, requiring *just transitions* that prioritize equity, climate justice, and social inclusion. With specific reference to *just energy transitions* from fossil fuel-based systems to renewable energy sources, *social inclusion* promotes the active participation of vulnerable and marginalised populations, and emphasizes their ownership of, and benefit from the transition.<sup>1</sup> The Association of Southeast Asian Nations (ASEAN)—which includes Brunei, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Viet Nam—is the world's fourth-largest energy consumer and has seen experienced an average annual energy demand growth of 3% over the past two decades, with emissions growth surpassing the global average rate of 1% in 2022.<sup>2</sup> Driven by rapid industrialization and economic growth, the energy demand is projected to grow by 60% by 2040. As of 2022, ASEAN's total installed power capacity stood at 300 GW, with 66% sourced from fossil fuels (coal 35%, gas 28%) and around 7% from renewables, primarily solar and wind. Indonesia's installed capacity stood at 101 GW, with renewables comprising approximately 15% of installed power capacity, while coal remains dominant at over 50%.<sup>3</sup> The ASEAN Power Grid is enhancing regional collaboration, targeting 30 GW of cross-border capacity by 2050 (up from 7 GW currently). Renewable capacity has doubled since 2015, led by Viet Nam.<sup>4</sup> However, around 30 GW of new coal capacity is still planned, posing stranded-asset risks.<sup>5</sup> Meeting future demand will require an additional 300 GW of capacity—mainly from renewables—along with investments in battery storage and grid flexibility. Working towards an energy transition landscape that centres clean energy and resource efficiency, potentially stimulates economic growth through parallel pathways of decarbonization and efficiency, stimulating green industries in manufacturing, deployment, and sales of clean technologies.<sup>6</sup> Energy efficiency could significantly reduce demand, and the ASEAN Plan for Action for Energy Cooperation sets ambitious 2025 targets: a 32% reduction in energy intensity by 2025 (from 2005 levels) and a 23% share of renewables in the overall energy mix.<sup>7</sup> Investing in energy efficiency strategies makes an important contribution towards the development of a green economy and sustainable economic growth.

2. Energy Access and Social Inclusion. Despite over 90% electricity access in ASEAN, 3.4 million households—mainly in Myanmar, Lao PDR, and the Philippines—remain unelectrified, with full access

<sup>1</sup> Mohideen, R. & Kolantharaj, J. (2024) Managing gender-inclusive, just energy transitions in South Asia. *Oxford Open Energy*, 3, oiae006. <https://doi.org/10.1093/ooenergy/oiae006>

<sup>2</sup> ASEAN Leaders for Just Energy Transition Shared Aspirations Statement. *World Economic Forum* 2024.

<sup>3</sup> Indri Dwi Apriliyanti, Diwangkara Bagus Nugraha, Stein Kristiansen, Indra Overland, To reform or not reform? *Competing energy transition perspectives on Indonesia's monopoly electricity supplier Perusahaan Listrik Negara (PLN)*, *Energy Research & Social Sc.*

<sup>4</sup> ASEAN Centre for Energy (ACE). 2022. 6th ASEAN Energy Outlook. Jakarta: ACE.

<sup>5</sup> Fazeli, Reza and Do, Thang Nam and Overland, Indra and Pradnyaswari, Indira, Southeast Asia Faces High Stranded Asset Risk from Coal Power Investments. Available at SSRN: <https://ssrn.com/abstract=5224497> or <http://dx.doi.org/10.2139/ssrn.5224497>

<sup>6</sup> Cozzi, L., Gul, T., Spencer, T., & Levi, P. (2024, April 18) *Clean energy is boosting economic growth*. <https://www.iea.org/commentaries/clean-energy-is-boosting-economic-growth>

<sup>7</sup> International Energy Agency (IEA). 2023. Southeast Asia Energy Outlook 2023. Paris: IEA.

expected by 2040.<sup>8</sup> However, around 15% of the region's population continues to rely on traditional biomass and coal or kerosene for cooking.<sup>9</sup> Renewable energy offers opportunities for gender equity; however, women's participation in the sector remains low (32%, mostly in non-technical roles), and women-led enterprises continue to face barriers to finance and networks. Community energy projects have proven effective in improving rural access and fostering social inclusion that takes into account the potential benefits for marginalised populations, including increasing access to education and employment in the energy sector. If new investment in Southeast Asia is focused on renewable energy and energy efficiency, the region would gain five million jobs in renewables and energy efficiency by 2050, while it would lose less than half a million jobs in fossil fuels<sup>10</sup> – further highlighting that the energy transition and economic growth can occur in parallel, particularly with improvements to social inclusion practices and policies. Job losses in coal, however, require reskilling and social protection as plants retire. Gender-responsive policies are critical to ensure equitable participation in energy planning and employment, by embedding milestones such as affordability, accessibility, gender equity, and intergenerational equity.<sup>11</sup>

3. Progress and Opportunities. ASEAN has advanced its energy transition over the past decade but will need over \$190 billion in clean energy investment by 2035 to meet its climate goals—five times current levels.<sup>12</sup> Just Energy Transition Partnership (JETP) agreements with Indonesia (\$20 billion)<sup>13</sup> and Viet Nam (\$15.5 billion, as per official announcement in December 2022)<sup>14</sup> signal strong international support. National policies, such as Indonesia's Energy Policy, Malaysia's Transition Roadmap, and Viet Nam's rapid solar expansion, have driven progress, while Singapore promotes a green economy through tech and finance initiatives.<sup>15</sup> The energy transition also impacts non-energy sectors, such as transport, urban, and agriculture, all of which are responsible for significant greenhouse gas emissions. Achieving this transition requires multi-stakeholder commitment, with implications for governments, industries, cities, and communities. A well-managed, inclusive transition can expand energy access, create jobs, and foster green industries, reducing inequality and driving sustainable development, as well as boosting economic growth in countries adopting this framework and those of their neighbours.<sup>16</sup>

## B. Background and Rationale

4. The International Conference is part of an ADB technical assistance (TA) project aimed at promoting inclusive strategies for the low-carbon energy transition in South Asia, where clean energy solutions and targeted interventions to enhance inclusive energy transitions, improving affordability, accessibility, energy security, sustainability, and gender equality as well as social inclusion, which have been piloted over the past decade. These interventions focus on marginalized and vulnerable groups, such as those living below the poverty line, low-income youth, female-headed households, the elderly, persons with disabilities, indigenous communities, and the unemployed.

5. The Inclusive Energy Solutions initiative of the ADB, implemented across South Asia and ASEAN, has demonstrated the value of structured, cross-sectoral, and participatory platforms in supporting just and inclusive clean energy transitions. Through a series of national and subregional workshops—engaging stakeholders from Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka—the initiative facilitated peer learning and generated practical approaches for integrating gender equality, social inclusion, skills development, and decentralized planning into energy sector policies and investments.

6. The International Conference in Indonesia—jointly organized by ADB's Energy Sector and the Human and Social Development Sector offices and the Indonesia Resident Mission, and Indonesia's Coordinating

<sup>8</sup> World Bank. 2022. Electricity Access Database. Washington, DC: World Bank.

<sup>9</sup> International Energy Agency (IEA). 2024. Southeast Asia Energy Outlook 2024. Paris: IEA.

<sup>10</sup> International Labour Organization (ILO). 2022. A just energy transition in Southeast Asia: The impacts of coal phase-out on jobs

<sup>11</sup> ASEAN Centre for Energy. (2025). *A Guide to a Just and Inclusive Energy Transition in ASEAN*. <https://aseanenergy.org/wp-content/uploads/2025/01/A-Guide-to-a-Just-and-Inclusive-Energy-Transition-in-ASEAN.pdf>

<sup>12</sup> International Energy Agency (IEA). 2024. Southeast Asia Energy Outlook 2024. Paris: IEA.

<sup>13</sup> Just Energy Transition Partnership Indonesia. <https://jetp-id.org/>

<sup>14</sup> [European Commission Statement. 2022. Political Declaration on establishing the Just Energy Transition Partnership with Viet Nam.](#)

<sup>15</sup> [ASEAN Leaders for Just Energy Transition Shared Aspirations Statement. World Economic Forum 2024.](#)

<sup>16</sup> Chica-Olmo, J., Sari-Hassoun, S., Moya-Fernandez, P. (2020). Spatial relationship between economic growth and renewable energy consumption in 26 European countries. *Energy Economics*, 92(2000), 104962. <https://doi.org/10.1016/j.eneco.2020.104962>



Ministry of Economic Affairs (CMEA), and Indonesia's Economic Council (NEC)—presents a timely opportunity to build on this momentum and extend knowledge exchange to Southeast Asia. It will foster cross-regional learning and South–South cooperation by drawing on operational models, community-led innovations, and multidisciplinary approaches validated in South Asia and ASEAN. The conference will serve as a capstone event to consolidate lessons learned and identify scalable pathways for inclusive energy transitions across diverse country contexts.

7. In doing so, the event will strengthen institutional capacities, inform project design, and accelerate cross-sectoral collaboration across energy, transport, and urban development. It also aligns with ADB's broader commitments under the Poverty and Social Analysis framework, the Just Transition agenda, and the goals of socially responsive climate action. By linking technical advancement with equity-focused planning, the conference will help position clean energy transitions as a driver of inclusive, resilient, and sustainable development in Southeast Asia.

### C. Conference Objectives

8. The key Conference objectives are the following.
- Examine energy transitions in Southeast Asia and Indonesia in relation to broader *Just Transition* efforts, including alignment of agendas and consensus around core concepts and terminology.
  - Reflect and build on the experience of integrating gender equality and social inclusion in the ADB energy portfolio in South Asia and Southeast Asia, with a particular focus on the progress made in the Philippines and Indonesia, and highlight key lessons and potential pathways for replication and scale-up in Southeast Asia and beyond.
  - Facilitate knowledge sharing and collaboration among government agencies, ADB project implementers, academia, CSOs, and other key energy stakeholders.
  - Examine the risks and opportunities of a transition towards green sectors/renewable energy sources, including its impacts on the labour market, opportunities for economic diversification, fiscal planning and social protection schemes.

### D. Conference Participants

9. The participants are key stakeholders from Indonesia, ASEAN and South Asia, including the following sectors and areas.
- ASEAN and Government of Indonesia representatives from the energy sector and JET-related agencies, State Owned Enterprises (SOE), and utilities.
  - ADB experts and practitioners.
  - Experts from academic institutions.
  - Industry representatives.
  - CSOs and nongovernmental organizations (NGOs).

### E. Key Conference Themes and Topics

10. The Conference program is designed on the following key themes and potential topics listed below. The most relevant topics have been selected after consultation. Explicit links between the topics and just energy transition are prioritised within sessions.

#### **Thematic Session 1: Southeast Asia Policy and Regulatory Environment: Managing Change, Access, Affordability, and Regional Collaboration**

This session will examine equitable and inclusive policies, frameworks and the regulatory environment to support all communities—especially those disproportionately affected by climate change and energy poverty—focusing on access, affordability, equitable workforce participation and the development of Micro, Small & Medium Enterprises and support for transitioning communities to address key challenges to facilitate JET.

#### **Thematic Session 2: Cross-Regional Sharing: A South Asia Retrospective and Southeast Asia Highlights – Insights Going Forward**

This session will reflect on the experience of integrating gender equality and social inclusion into ADB's energy portfolio in South Asia, platforming a selection of case studies from Southeast Asia, as well as key lessons and potential pathways for replication and scale-up beyond the Southeast Asian context.

**Thematic Session 3: Financial and Just Energy Transition Implementation Challenges in Southeast Asia** This session will discuss the financing modalities currently being implemented to support the development of green industries, the challenges in operationalizing policies, plans and frameworks focusing on disadvantaged groups and transitioning communities, as well as the comparative costs of action versus inaction in this context.

**Thematic Session 4: Emerging Technologies – Techno-Economic and Socio-Technical Challenges** This session will examine key transition technologies—geothermal, solar, and Industry 4.0 solutions such as smart grids, AI, and digital systems—and their roles in improving access, affordability, inclusive green industry development, and a just transition. It will also examine community engagement strategies for social licence.

#### **Thematic Session 5: Green Jobs for Social Inclusion**

This session will explore the skilling and reskilling programs required to develop green industries, including the role of universities in shaping the green industrial transition. It will also highlight the importance of TVET programs and MSME development, social protection strategies, and utility perspectives in reskilling the existing energy workforce to advance green industries.

## **F. Program and Session Structures**

11. The “Program at a Glance” outlines the conference structure, featuring panel presentations, case studies, interactive lectures, and working groups for in-depth discussions of themes and topics. A feature of the program also includes the sharing of international experiences by experts.

## F.1 Program at a Glance

	DAY 1	DAY 2	DAY 3
08:00-08:30	<b>ARRIVAL &amp; NETWORKING</b>	<b>ARRIVAL &amp; NETWORKING</b>	<b>FIELD TRIP</b>
08:30-09:00	<b>OPENING SESSION</b>	<b>SESSION 4: Emerging Technologies — Techno-Economic and Socio-Technical Challenges</b>	Site 1: Pembangkit Listrik Tenaga Surya Atas Air (PLTSA) Cirata Floating Solar Power Plant (Hosted by the National Economic Council (DEN) and the Coordinating Ministry for Economic Affairs (EKON))
09:00-10:00	<b>KEYNOTE ADDRESS: <i>Indonesia's Just Energy Transition Progress – Opportunities &amp; Challenges</i></b> <b>GROUP PHOTO</b>	Session 4 International Experiences Session 4 Presentations	
10:00-10:30	<b>NETWORKING BREAK</b>	<b>NETWORKING BREAK</b>	Site 2: Bandung Science and Technology Park (STP) and Institut Teknologi Band (ITB) Tour (Hosted by ITB)
10:30-11:40	<b>SESSION 1: Southeast Asia Policy and Regulatory Environment: Managing Change, Access, Affordability, and Regional Collaboration</b>	Session 4 Case Study	
	Session 1 Fireside Chat Session 1 Presentations	Session 4 Expert Insights	
11:40-12:30	<b>SESSION 2: Cross-Regional Sharing: A South Asia Retrospective and Southeast Asia Highlights – Insights Going Forward</b>	<b>SESSION 5: Green Jobs for Social Inclusion</b>	
	Session 2 Overview Session 2 Presentations	Session 5 International Experiences	
12:30-14:00	<b>LUNCH NETWORKING BREAK</b>	<b>LUNCH NETWORKING BREAK</b> Working Session (by invitation only)	
14:00-15:00	Session 2 Case Studies	Session 5 Presentations	
15:00-15:30		Session 5 Case Study	
15:30-16:00	<b>NETWORKING BREAK</b>	<b>NETWORKING BREAK</b>	
16:00-17:00	<b>SESSION 3: Financial and Just Energy Transition Implementation Challenges in Southeast Asia</b>	Session 5 Expert Insights	
	Session 3 Panel <b>SUMMARY OF DAY 1</b>	<b>CLOSING SESSION</b>	
17:00-20:00	<b>CONFERENCE DINNER RECEPTION &amp; NETWORKING</b>	<b>CULTURAL EVENING AT THE NATIONAL MUSEUM OF INDONESIA</b>	

## F.2 Detailed Agenda

DAY 1							
08:00-08:30	<b>ARRIVAL &amp; NETWORKING</b>						
	<b>OPENING SESSION</b>						
	NATIONAL ANTHEM						
08:30-09:00	<ul style="list-style-type: none"> <li>Conference Chair: Reihana Mohideen, Principal Advisor, Inclusive Energy Transitions, Nossal Institute for Global Health, The University of Melbourne (UoM)</li> <li>Welcome Remarks: Bobur Alimov, Country Director, Indonesia Resident Mission (IRM), ADB</li> <li>Opening Remarks: Priyantha Wijayatunga, Senior Director, Energy Sector Office (SD1-ENE), ADB</li> </ul>						
	<b>KEYNOTE ADDRESS</b>						
09:00-09:50	<b>Indonesia's Just Energy Transition Progress – Opportunities &amp; Challenges</b>						
	Introduced by: Reihana Mohideen, UoM						
	<ul style="list-style-type: none"> <li>Luhut Binsar Panjaitan, Chairman, National Economic Council (NEC), GOI</li> </ul>						
09:50-10:00	<b>GROUP PHOTO</b>						
10:00-10:30	<b>NETWORKING BREAK</b>						
	<b>SESSION 1 Southeast Asia Policy and Regulatory Environment: Managing Change, Access, Affordability, and Regional Collaboration</b>						
	<i>Objective: To explore how inclusive policies, frameworks and regulations can expand access for disadvantaged groups, promote equity in workforce participation and MSME development, and address key challenges to facilitate JET within ASEAN.</i>						
	<i>Topics: ADB Energy Policy; ASEAN Overview; State Owned Enterprises Accelerating Indonesia's Just Transition; Planning for a Just Energy Transition in Indonesia</i>						
	Moderator: Keiju Mitsuhashi, Director Energy, SD1-ENE (Southeast Asia), ADB						
	<b>Session 1 Fireside Chat</b>						
10:30-11:00	<table border="1"> <tr> <td>a. ADB Energy Policy: Implications for Southeast Asia JET</td> <td> <ul style="list-style-type: none"> <li>with Priyantha Wijayatunga, ADB</li> </ul> </td> </tr> </table>	a. ADB Energy Policy: Implications for Southeast Asia JET	<ul style="list-style-type: none"> <li>with Priyantha Wijayatunga, ADB</li> </ul>				
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	<b>END OF SESSION POLLING</b>						
	<b>SESSION 2 Cross-Regional Sharing: A South Asia Retrospective and Southeast Asia Highlights – Insights Going Forward</b>						
	<i>Objective: To reflect on the experience of integrating gender equality and social inclusion in the ADB energy portfolio in South Asia, highlighting a selection of case studies from Southeast Asia, and identifying key lessons and potential pathways for replication and scale-up.</i>						
	<i>Topics: Retrospective of ADB South Asia Energy Portfolio and Key Lessons; Regional Collaboration to Improve Access and Affordability; Case Studies – Sociotechnical Lessons</i>						
11:40-12:00	Moderators: Sujata Gupta, Director, SD1-ENE (South Asia) and Farah Herliantina, Assistant Deputy for Accelerating Energy Transition, CMEA						
	<b>Session 2 Overview</b>						
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<b>Session 2 Presentations: Regional Collaboration to Improve Access and Affordability</b>							
12:00-12:30	<table border="1" style="width: 100%;"> <tr> <td style="width: 40%; vertical-align: top;"> <p>b. The Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation</p> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• Pankaj Batra, Former Chair CEA, Energy Transition Specialist, Integrated Research and Action for Development (IRADe), India</li> </ul> </td> </tr> <tr> <td style="vertical-align: top;"> <p>c. ASEAN Power Grid: A Holistic Approach - Reducing Cost, Emissions and Enhancing Equity</p> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>• Anthony Maxwell, Principal Energy Specialist, ADB</li> </ul> </td> </tr> </table>	<p>b. The Bay of Bengal Initiative for Multi-Sectoral Technical and Economic Cooperation</p>	<ul style="list-style-type: none"> <li>• Pankaj Batra, Former Chair CEA, Energy Transition Specialist, Integrated Research and Action for Development (IRADe), India</li> </ul>	<p>c. ASEAN Power Grid: A Holistic Approach - Reducing Cost, Emissions and Enhancing Equity</p>	<ul style="list-style-type: none"> <li>• Anthony Maxwell, Principal Energy Specialist, ADB</li> </ul>		
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<p>d. India: How DERs Empower Low-Income Energy Access</p> <p><i>India's Distributed Energy Resources (DERs), through the Ministry of New and Renewable Energy's rooftop solar program, are expanding affordable, reliable power for low-income households. The initiative lowers energy costs while advancing an inclusive clean energy transition.</i></p>	<ul style="list-style-type: none"> <li>• Ashish Batham, Under Secretary, Ministry of New and Renewable Energy (MNRE), Government of India</li> <li>• Jaimes Kolantharaj, Principal Energy Specialist, ADB</li> <li>• Deepa Ahluwalia, Senior Social Development Officer, India Resident Mission (INRM), ADB</li> </ul>						
<p>e. Electrifying Indonesia: Rural Electrification Roadmap for Equitable Energy Access to All Indonesians)</p> <p><i>PLN's Rural Electrification Program has pushed Indonesia to near-universal electricity access by combining grid expansion with decentralised renewable energy development to frontier, outermost and underdeveloped areas (3T). PLN is reaching remote and island communities while improving reliability in rural areas. For rural households, this means dependable power for daily life, public services, and small businesses—supporting livelihoods, connectivity, and more inclusive regional development.</i></p>	<ul style="list-style-type: none"> <li>• Putu Eka Astawa, Vice President of Planning and Management of Rural Electrification for Sumatera, Kalimantan, Java, Madura, and Bali Region, PT Perusahaan Listrik Negara (Persero) (PLN), GOI</li> </ul>						
<p>f. Nepal: Mainstreaming GESI in NEA Operations (SASEC)</p> <p><i>Nepal is mainstreaming Gender Equality and Social Inclusion (GESI) in Nepal Electricity Authority operations under the South Asia Subregional Economic Cooperation (SASEC) program to promote equitable energy access. By embedding GESI in planning and implementation, the initiative strengthens inclusive and just energy outcomes.</i></p>	<ul style="list-style-type: none"> <li>• Chandha Parajuli Neupane, Director, Project Management Directorate, Nepal Electricity Authority (NEA), Government of Nepal</li> <li>• Pushkar Manandhar, Energy Specialist, ADB</li> </ul>						
<b>OPEN FORUM</b>							
<b>END OF SESSION POLLING</b>							
<b>15:30-16:00 NETWORKING BREAK</b>							
<b>SESSION 3 Financial and Just Energy Transition Implementation Challenges in Southeast Asia</b>							
16:00-16:50	<p><i>Objective: This session will discuss financing mechanisms for developing green industries, challenges in operationalizing policies, plans and frameworks, with a focus on disadvantaged groups and transitioning communities, and the costs of action versus inaction.</i></p> <p><i>Topics: The Financial Challenges in Achieving Indonesia's NDC Targets; Operationalizing JETP Framework; Comprehensive Investment and Policy Plan (CIPP); Southeast Asia Energy Transition Partnership; State Owned Enterprises Accelerating Indonesia's Just Transition; Role of Companies Promoting JET</i></p> <p><b>Moderator: Gaffari Ramadhan, Executive Director of Policy and Strategic Economic, NEC, GOI</b></p>						



<b>Session 3: Expert Perspectives Panel</b>	
<i>A moderated group chat on the following topics: Operationalizing JETP Framework; Comprehensive Investment and Policy Plan (CIPP); Southeast Asia Energy Transition Partnership; State Owned Enterprises Accelerating Indonesia's Clean Energy Transition; Role of Companies Promoting JET</i>	
<ul style="list-style-type: none"> <li>• Paul Butarbutar, Executive Director of Indonesia Climate and Growth Dialogue, United Nations Development Programme (UNDP), Indonesia</li> <li>• Achmed Sharam Edianto, ETP Indonesia Country Coordinator, Southeast Asia Energy Transition Partnership</li> <li>• Maya Rani Puspita, Executive Vice President of Corporate Finance, PLN, GOI</li> <li>• Ha Quoc Trung, Deputy Director, National Center for Technological Progress, Ministry of Science and Technology, Government of Viet Nam</li> <li>• Swati Dsouza, Climate Change Specialist (Just Transition), ADB</li> </ul>	
<b>OPEN FORUM</b>	
<b>END OF SESSION POLLING</b>	
16:50-17:00	<b>Highlights of Day 1</b>
<b>CONFERENCE DINNER RECEPTION AND NETWORKING</b>	
17:00-20:00	Hosted by: <ul style="list-style-type: none"> <li>• Dida Gardera, Act. Deputy Industry, manpower, and tourism, CMEA</li> <li>• Septian Hario Seto, Executive Secretary, NEC</li> </ul>



<b>DAY 2</b>					
08:00-08:30	<b>ARRIVAL &amp; NETWORKING</b>				
08:30-08:45	NATIONAL ANTHEM <i>Field Trip Arrangements</i>				
08.45-09:15	<b>SESSION 4</b> <b>The New Grid and Emerging Technologies — Techno-Economic and Socio-Technical Challenges</b>				
	<i>Objective: This session will examine key transition technologies—geothermal, solar and Industry 4.0 solutions—and their contribution to access, affordability, inclusive green growth, and a just transition, alongside community engagement strategies to strengthen social licence.</i>				
	<i>Topics: International Experiences; Philippines, Offshore Wind Development and Sociotechnical Challenges; Sri Lanka, AI Fostering Prosumer Participation; Indonesia, Geothermal Power and Social License; Case Study – Sociotechnical Lessons; Sustainable Energy Access in Eastern Indonesia;</i>				
	Moderator: Navina Sanchez, Senior Climate Change Specialist (Just Transition), ADB				
	<b>Session 4 International Experiences</b>				
	<table border="1"> <tr> <td>a. Industry 4.0: Sociotechnical Approaches and Opportunities</td> <td> <ul style="list-style-type: none"> <li>Reihana Mohideen, UoM</li> </ul> </td> </tr> <tr> <td>b. Transition Technologies: Sociotechnical Challenges</td> <td> <ul style="list-style-type: none"> <li>Daniel del Barrio Alvarez, Researcher, International Project Lab, Department of Civil Engineering, The University of Tokyo</li> </ul> </td> </tr> </table>	a. Industry 4.0: Sociotechnical Approaches and Opportunities	<ul style="list-style-type: none"> <li>Reihana Mohideen, UoM</li> </ul>	b. Transition Technologies: Sociotechnical Challenges	<ul style="list-style-type: none"> <li>Daniel del Barrio Alvarez, Researcher, International Project Lab, Department of Civil Engineering, The University of Tokyo</li> </ul>
a. Industry 4.0: Sociotechnical Approaches and Opportunities	<ul style="list-style-type: none"> <li>Reihana Mohideen, UoM</li> </ul>				
b. Transition Technologies: Sociotechnical Challenges	<ul style="list-style-type: none"> <li>Daniel del Barrio Alvarez, Researcher, International Project Lab, Department of Civil Engineering, The University of Tokyo</li> </ul>				
09:15-10:00	<b>Session 4 Presentations</b>				
	c. Philippines: Offshore Wind Development -- Technoeconomic and Social Challenges	<ul style="list-style-type: none"> <li>Shigeru Yamamura, Principal Energy Specialist, ADB</li> </ul>			
	d. Sri Lanka: AI Fostering Prosumer Participation	<ul style="list-style-type: none"> <li>Janaki Rupasingha, Deputy General Manager, Ceylon Electricity Board, Government of Sri Lanka</li> <li>Prathaj Haputhanthri, Project Officer (Energy), ADB</li> </ul>			
	e. Indonesia, Geothermal Power Development: Social License through Community Engagement	<ul style="list-style-type: none"> <li>Bintang Sasongko, Senior Advisor QHSSE &amp; Safeguard, Geo Dipa Energy Indonesia</li> </ul>			
	<b>OPEN FORUM</b>				
10:00-10:30	<b>NETWORKING BREAK</b>				
10:30-10:50	<b>Session 4 Case Study: Sociotechnical Lessons</b>				
	<table border="1"> <tr> <td>f. Sustainable Energy Access in Eastern Indonesia—Electricity Grid Development Program Phase 2 in Kalimantan, Maluku and Papua  <i>The program has expanded socially inclusive electricity access in Eastern Indonesia, reaching poor households—including female-headed households and persons with disabilities—and supporting local businesses. Annual connection targets have been consistently exceeded, complemented by JFPR grant funding, while consumer education workshops ensure at least 30% female participation and accessibility for persons with disabilities. Small-scale renewable energy investments, including around 40 solar PVs per year, have strengthened reliable electricity supply, enabling productive activities, income generation, and economic development in remote communities.</i></td> <td> <ul style="list-style-type: none"> <li>Ira Palupi, Senior Project Officer (Infrastructure), ADB</li> </ul> </td> </tr> </table>	f. Sustainable Energy Access in Eastern Indonesia—Electricity Grid Development Program Phase 2 in Kalimantan, Maluku and Papua  <i>The program has expanded socially inclusive electricity access in Eastern Indonesia, reaching poor households—including female-headed households and persons with disabilities—and supporting local businesses. Annual connection targets have been consistently exceeded, complemented by JFPR grant funding, while consumer education workshops ensure at least 30% female participation and accessibility for persons with disabilities. Small-scale renewable energy investments, including around 40 solar PVs per year, have strengthened reliable electricity supply, enabling productive activities, income generation, and economic development in remote communities.</i>	<ul style="list-style-type: none"> <li>Ira Palupi, Senior Project Officer (Infrastructure), ADB</li> </ul>		
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	<b>OPEN FORUM</b>				
10:50 -11:20	<b>Session 4 Expert Insights</b>				
	Moderator: Anthony Maxwell, Principal Energy Specialist, ADB				
	<i>Selected group of experts providing critical reflections on the session</i>				
	<ul style="list-style-type: none"> <li>Crinezza Veil L. Mendoza, Director IV, Department of Transportation, Government of the Philippines</li> <li>Joonho Hwang, Director Energy (East, Central and West Asia), ADB</li> <li>Ahmed Ali, Ministry of Tourism and Environment (Energy Department), Director General, Government of the Maldives</li> </ul>				
	<b>END OF SESSION POLLING</b>				



	<b>SESSION 5   Green Jobs for Social Inclusion</b>	
	<i>Objective: This session will explore skilling programs for green industries, with a focus on equitable participation in TVET programs and MSME development, social protection strategies, and utility perspectives on reskilling the existing energy workforce, along with the role of universities in shaping green industries.</i>	
	<i>Topics: International Experiences: Why Disability Inclusion Matters in Workforce Development Programs, Just Coal Transition, Promoting Green Jobs and Social Protection and Philippines, Educational and Skills Ecosystem for JET; Social Protection Strategies for the Transitioning Workforce; Cambodia, TVET for the Future Economy; Indonesia, Developing a Skills Roadmap for an Inclusive Transition; Case Study, Indonesia -- The Role of Universities in Shaping Green Industry</i>	
	Moderator: Yumiko Yamakawa, Principal Education Specialist, Human and Social Development, ADB	
	<b>Session 5 International Experiences</b>	
11:20-12:30	a. Why Disability Inclusion Matters in Workforce Development Programs	<ul style="list-style-type: none"> <li>Alex Robinson, Disability Inclusion and Rehabilitation Head, Nossal Institute, UoM</li> </ul>
	b. Just Coal Transition: Promoting Green Jobs and Social Protection	<ul style="list-style-type: none"> <li>Ade Cahyat, Lead Just Transition, Minerals &amp; Mining. Energy Program, GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit) Indonesia &amp; ASEAN</li> </ul>
	c. Philippines: Educational and Skills Ecosystem for JET	<ul style="list-style-type: none"> <li>Jacqueline Jamillah J. Ali, Chief Technical Education and Skills Development Specialist, Technical Education and Skills Development Authority (TESDA)</li> <li>Virgilio Manzano, Jr., President, Mariano Marcos State University (MMSU)</li> <li>Ambrosio B. Cultura II, University of Science and Technology of Southern Philippines (USTP)</li> <li>Vishal Potluri, Social Sector Economist, Human and Social Development, ADB</li> </ul>
	<b>OPEN FORUM</b>	
12:30-14:00	<b>LUNCH NETWORKING BREAK</b> 13:30-14:00 Working Session (by invitation only)	
	<b>Session 5 Presentations</b>	
14:00-15:00	d. Social Protection Schemes to Facilitate Just Transitions	<ul style="list-style-type: none"> <li>Ippei Tsuruga, Social Protection Program Manager, ILO Indonesia</li> </ul>
	e. Cambodia – TVET for the Future Economy	<ul style="list-style-type: none"> <li>Ky Sereyvuth, Deputy Secretary General, General Secretariat of the National Council for Minimum Wage, Ministry of Labour and Vocational Training, Government of Cambodia</li> <li>Sarin Chan, Vice Dean, Faculty of Electrical Engineering, Institute of Technology of Cambodia</li> </ul>
	f. Indonesia – Developing a Skills Roadmap for an Inclusive Transition	<ul style="list-style-type: none"> <li>Muhammad Fathahillah Zuhri, Programme Management Senior Officer, Southeast Asia Energy Transition Partnership</li> </ul>
	<b>OPEN FORUM</b>	
	<b>Session 5 Case Study</b>	
15:00-15:30	g. Indonesia: Universities Driving Green Industry (PRIME STeP)	<ul style="list-style-type: none"> <li>Sugeng Joko Sarwono, Director, ITB (Institut Teknologi Bandung), Science and Technology Park (STP)</li> <li>Chairul Hudaya, Director of Innovation and High Impact Research, UI (Universitas Indonesia)</li> </ul>
	<i>The PRIME STeP project is modernizing science and technology parks at major Indonesian universities to boost applied research, R&amp;D commercialization, and start-up incubation. By improving labs, incubators, and research capacity, it strengthens university–industry partnerships and innovation.</i>	
	<b>OPEN FORUM</b>	
15:30-16:00	<b>NETWORKING BREAK</b>	



	<p><b>Session 5 Expert Insights</b></p> <p>Moderator: Mohammed Faiz Shaul Hamid, Senior Labor Economist (Green Jobs), ADB</p> <p><i>Selected group of experts providing critical reflections on the session</i></p> <ul style="list-style-type: none"> <li>• Nguyễn Duy Bắc, Deputy Head, Technical Department, Viet Nam National Coal and Mineral Industries Group</li> <li>• Mumui Kalisi Kisina La'akulu, Senior Lecturer (Science), Faculty of Education, Arts and Humanities, Tonga National University</li> <li>• Nasheeba Selim, Principal Social Development Officer (Gender), Bangladesh Resident Mission (BRM), ADB</li> <li>• Nicanor Bon, Assistant Regional Director, Department of Labor and Employment (DOLE)</li> </ul> <p><b>END OF SESSION POLLING</b></p>
16:00-16:30	
	<p><b>CLOSING SESSION</b></p> <ul style="list-style-type: none"> <li>• Closing Remarks: Farah Herliantina, CMEA</li> <li>• Key Takeaways and Ways Forward: Francesco Tornieri, ADB</li> <li>• Closing Remarks: Keiju Mitsuhashi, ADB</li> </ul>
16:30-17:00	
17:00-20:00	<p><b>CULTURAL EVENING AT THE NATIONAL MUSEUM OF INDONESIA</b> Organized by ADB</p>



DAY 3		
Field Trip		
07:00-17:00	<b>SITE 1 (Maximum 50 participants)</b>  <b>Pembangkit Listrik Tenaga Surya Atas Air (Floating Solar Power Plant) (PLTSA) Cirata (Hosted by DEN and EKON)</b>  The PLSTA Cirata project represents a milestone for Southeast Asia, being the largest floating solar plant in the region. The project demonstrates how innovative renewable solutions (like floatovoltaics) can address land constraints in densely populated or land-scarce regions and other social considerations, while contributing to Indonesia's net-zero goals.	<b>SITE 2 (Maximum 50 participants)</b>  <b>Bandung Science and Technology Park (STP) and ITB Tour (Hosted by ITB)</b>  Bandung STP, is part of the ADB-financed PRIME STeP project to strengthen and modernize science and technology parks at four major Indonesian universities, including UGM, UI and STP. The goal is to boost applied research, deepen R&D commercialization, and support start-up incubation by improving infrastructure (labs, pilot units, co-working/incubator spaces), enhancing capability of research administrators, and facilitating stronger university–industry partnerships.

*Additional ADB resource persons:*

**Country Energy and Social Inclusion Focal Points:** *Ranishka Wimalasena, Senior Energy Specialist (Climate Finance); Architrandi Priambodo, Senior Energy Specialist, Tonga; Tika Limbu, Principal Energy Specialist, Papua New Guinea (PNG); Alfredo Bano Leal, Senior Energy Specialist, Uzbekistan; Seung Duck Kim, Principal Energy Specialist, Pakistan; Lazeena Rahman, Senior Climate Finance Specialist, Indonesia Resident Mission; Mashiur Rahman, Associate Project Officer (Energy); Praveen K. Manikpuri, Principal Project Officer (Skills Development), India Resident Mission; Samrat Ray, Senior Project Officer (Energy); Abhik Debbarma, Project Officer (Energy); Ranmini Vithanagama, Consultant*

**Country Liaisons:** *Lydia Domingo, Senior Social Development Officer (Social Protection); Brenda Batistiana, Lead GESI Consultant; Samreen Shahbaz, Social Development Expert (We-POWER Coordinator); Andrew Fransciscus, Senior Programs Officer*