

## 2<sup>nd</sup> GMS Energy Transition Task Force Committee Meeting

4–6 December 2023

Sofitel Angkor Phokeethra Golf & Spa Resort

Siem Reap, Cambodia



### 2<sup>nd</sup> GMS ENERGY TRANSITION TASK FORCE COMMITTEE MEETING

#### AGENDA

DAY 1, 4 December 2023	
Time (Cambodia)	Item
8:00 – 8:30	<p><b>Registration/Log-in Zoom</b></p> <p><b>Zoom Link/Details for Day 1 and 2:</b> <a href="https://adb-org.zoom.us/j/96374333736?pwd=Mt9RaVhjd1c0K2h3dnNWMErWYjNqUT09">https://adb-org.zoom.us/j/96374333736?pwd=Mt9RaVhjd1c0K2h3dnNWMErWYjNqUT09</a></p> <p><b>Meeting ID:</b> 963 7433 3736 <b>Passcode:</b> GMSETTF23</p>
8:30 – 8:45	<p><b>Welcome Address by GMS Energy Transition Task Force (ETTF) Chairperson:</b> <i>Harnessing Regional Power Trade for Sustainable Energy Transition in the GMS</i> <i>His Excellency Victor Jona, Under Secretary of State and the Chairperson of the Second ETTF Committee Meeting, Ministry of Mines and Energy, Kingdom of Cambodia</i></p> <p><b>Opening Address by ADB:</b> ADB's Commitment to Promoting Regional Power Trade and Energy Transition in the GMS <i>Mr. Keiju Mitsuhashi, Director, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i></p> <p><b>Introduction of Country Delegates and Participants</b></p>
8:45 – 10:00	<p><b>Energy Transition towards ASEAN decarbonization: Actions and Progress</b> <i>Mr. Prihastya Wiratama, Project Manager of ASEAN Power Interconnection Power, Fossil Fuel, Alternative Energy, and Storage (PFS) Department, ASEAN Centre for Energy (ACE)</i></p> <p><b>The development of the ASEAN Power Grid (APG) and the ASEAN Interconnection Master Plan Study (AIMS) III</b> <i>Mr. Iman Faskayana, Alternate Secretary-in-Charge, Heads of ASEAN Power Utilities/Authorities (HAPUA)</i></p> <p><b>Promoting Regional Power Market and Interconnection Development in the GMS and other subregions in ASEAN</b> <i>Ms. Hyunjung Lee, Senior Energy Economist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i></p>
10:00 – 10:15	<b>Coffee / Tea Break</b>

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<b>Country Presentations (including Q&amp;A)</b>	
10:15 – 10:30	<i>Country Presentation: Cambodia*</i> <i>Mr. Heang Theangseng, Chief of Office, Department of Energy Development</i>
10:30 – 10:45	<i>Country Presentation: People’s Republic of China*</i>
10:45 – 11:00	<i>Country Presentation: Lao PDR*</i>
11:00 – 11:15	<i>Country Presentation: Myanmar*</i>
11:15 – 11:30	<i>Country Presentation: Thailand*</i>
11:30 – 11:45	<i>Country Presentation: Viet Nam*</i>
11:45 – 12:00	Q&A
12:00 – 13:30	<b>Lunch</b>
<p><b>*Note:</b> Each country makes a presentation showing:</p> <ul style="list-style-type: none"> <li>the country’s latest power sector development (e.g., new policies, plans, tariff regulations) and energy transition strategy and roadmap (if available);</li> <li>latest development of high-voltage cross-border power interconnections, i.e., new MOU, new agreement, new projects;</li> <li>report about the actual data of cross-border power trade, future projections of demand and supply;</li> <li>provide the list of existing and future planned high voltage interconnections that are at 115kV to 500kV across borders (e.g., Thailand and Cambodia, Cambodia and Viet Nam, and Lao PDR and Cambodia, Lao PDR and Thailand, Lao PDR and Viet Nam, Lao PDR and PRC, and PRC and Viet Nam)</li> <li>plans for the development of renewable energy, energy storage, smart grids, electric vehicle, demand response, energy efficiency, etc.;</li> <li>investment requirements and financing challenges for energy transition; and</li> <li>identify specific areas of capacity building needs needed in the energy transition.</li> </ul>	
<p><b>Regional Power Trade for Sustainable Energy Transition in the GMS</b>  <i>High-level discussions by Development Partners (DFs) on their support for GMS countries’ regional power trade interconnections that support energy transition plans in terms of technical assistance, pilot investments, capacity building, and knowledge sharing (e.g., USAID, DFAT Australia, AfD, UNESCAP, ASEAN Secretariat, ACE, and World bank) and possible collaboration opportunities with GMS programs.</i></p>	
13:30 – 13:50	<b>Lessons learned from the Laos-Thailand-Malaysia-Singapore-Power Integration Project (LTMS – PIP)</b> <i>Dr. Mirza Huda, ISEAS – Yusof Ishak Institute (Virtual)</i>
13:50 – 14:10	<b>Green Power Corridors and lessons from ESCAP’s Regional Roadmap on Power System Connectivity</b> <i>Ms. Yejin Ha, UNESCAP (Virtual)</i>

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14:10 – 14:30	<b>USAID SPP Support to Progressing on ASEAN Power Grid</b> <i>Grayson Heffner, Director, Utility Modernization and Power Trade, USAID SE Asia Smart Power Program</i>
14:30 – 15:10	Discussions and Q&A
15:10 – 15:40	<b>Coffee / Tea Break</b>
15:40 – 16:40	<b>ETTF Operations strategy: Enhanced cooperation with ASEAN and other development programs</b>  <i>Presentation by</i> <i>(i) ETTF Chairperson; and</i> <i>(ii) Ms. Hyunjung Lee, Senior Energy Economist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i>  <i>Comments by</i> <ul style="list-style-type: none"><li>• Cambodia</li><li>• People's Republic of China</li><li>• Lao PDR</li><li>• Myanmar</li><li>• Thailand</li><li>• Viet Nam</li></ul>
16:40 – 17:00	<b>Wrap-up of the day and key takeaways</b>  <i>Ms. Architrandi Priambodo, Senior Energy Specialist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i>

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DAY 2, 5 December 2023	
Time (Cambodia)	Item
8:00 – 8:15	<b>Overview of Day 2</b> <i>Mr. Joao Aleluia, Energy Specialist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i>
8:15 – 9:15	<b>Regional Power Trade Trends and Opportunities in Other Regions</b> Presentation on the regional power trade potential in the GMS countries following lessons learned from Eastern African and Southern African Power Pool  <i>Presentation by:</i> <i>(i) Mr. Jonathan Hedgecock, International Regional Power Trade Expert, ADB Consultant; and</i> <i>(ii) Mr. Hans-Arild Bredesen, International Power Market Expert, ADB Consultant</i>
9:15 – 10:15	<b>Regional Power Market Pilot and Shadow Trade Project in GMS/ASEAN</b> <ul style="list-style-type: none"><li>- <b>Final Concept Note Endorsement</b></li><li>- <b>Discussion on the TORs and Implementation Arrangement</b></li></ul> <p>The session will review and endorse the final concept note on the regional power market pilot and shadow trade project and discuss the implementation plan, including the consulting services terms of reference (TORs) and implementation arrangement. Based on this discussion, ADB will process a new regional technical assistance to support establishing a regional power market within GMS/ASEAN to accelerate energy transition through bilateral and multilateral power trade. The regional TA will support develop the roadmap for a regional power market development and country specific action plan, support the procurement and operation of shadow and pilot trading market platform, conduct various scenario analysis on different subregions (Laos-Thailand-Cambodia, Laos-Viet Nam-Cambodia, LTMS, Singapore-GMS countries, Singapore-ASEAN southern grid, BIMP, etc.) to maximize the existing infrastructure and identify new interconnections, review various existing PPAs and identify the actions to be taken to unlock the existing dedicated infrastructure, and assist the countries to adopt common operating rules and technical standards for interconnection operation, set up a third party access regulations, and establish a harmonized methodology for wheeling charges. This TA is aligned with ASEAN and GMS initiatives to enhance cross-border electricity trade and facilitate the development of power interconnection projects to optimize renewable energy resources, and thereby enhancing energy security and resilience.</p> <i>Presentation by</i> <i>(i) Ms. Hyunjung Lee, Senior Energy Economist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group ADB; and</i> <i>(ii) Mr. Anthony Jude, GMS Senior Advisor, ADB Consultant (Virtual)</i>

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DAY 2, 5 December 2023	
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	Q & A
10:15 – 10:30	<b>Coffee/Tea Break</b>
10:30 – 11:15	<p><b>Energy Efficiency – Proposal for the Energy Efficiency Activities with the aim of Energy Efficiency Working Group Establishment in 2024</b></p> <p>This session will discuss options on key areas and forms/series of capacity building activities in energy efficiency and energy conservation to be implemented in 2024. The series of capacity building activities are expected to lead the GMS member countries in formulating high level key action plans to promote financing in energy efficiency and energy conservation.</p> <p><i>Presentation by</i></p> <p>(i) <i>Ms. Architrandi Priambodo, Senior Energy Specialist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB; and</i></p> <p>(ii) <i>Rajeev Ralhan, Energy Efficiency and Performance Standard Specialist, ADB Consultant</i></p> <p>Q &amp; A</p>
11:15 – 12:15	<p><b>Capacity Building and Training Needs of GMS Countries under ETTF</b></p> <p>This session will provide an opportunity for GMS countries to highlight specific areas in which they will need assistance and develop a capacity building program 2024-2025 based on the partnership with other development partners and ASEAN programs.</p> <p><i>Presentation by</i></p> <p>(i) <i>Mr. Joao Aleluia, Energy Specialist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB; and</i></p> <p>(ii) <i>Mr. Taeil Kang, GMS ETTF Renewable and Energy Efficiency Specialist, ADB Consultant</i></p> <p><b>GMS Knowledge Network: Knowledge-based Policy Dialogue in the GMS</b></p> <p><i>Presentation by</i></p> <p><i>Antonio Ressano, Principal Regional Cooperation Specialist, Regional Cooperation and Integration Unit, SERD, ADB</i></p> <p><b>Australia Study Tour Program in 2024</b></p> <p><i>Presentation by</i></p> <p><i>Richard Neumann, DFAT (Virtual)</i></p>

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	Q & A
12:15 – 13:30	<b>Lunch</b>
13:30 – 14:00	<b>GMS Program Updates (including the preparation of GMS Summit in 2024)</b>  <i>Ms. Pinsuda Alexander, Economist (Regional Cooperation), Regional Cooperation and Integration Unit, Southeast Asia Department, ADB (Virtual)</i>  Q&A
14:00 – 14:30	<b>Green Financing Training under ETTF</b>  This session will provide key takeaways from the recent green financing training organized in Bangkok on 3-4 October 2023 and a brainstorming session on key strategies and actions for green financing programs under ETTF.  <i>Presentation by Mr. Joao Aleluia, Energy Specialist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i>  Q&A
14:30 – 15:00	<b>Key takeaways on the GMS Regional Meeting: Perspective from GMS ETTF Chairperson (Cambodia)</b>  <i>Mr. Keo Vichet, Deputy Director, Department of Energy Development, General Department of Energy, Ministry of Mines and Energy Ms. Architrandi Priambodo, Senior Energy Specialist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i>  Q & A
15:00 – 15.30	<b>Coffee/Tea Break</b>
15:30 – 16:30	<b>The ETTF and Planning of Future Activities and Agreed Actions from 2<sup>nd</sup> ETTF meeting for the implementation in 2024</b>  This session will present and discuss the ETTF Work Plan and its scope of work including workstreams, working groups, and other priorities.  <i>Presentation by (iii) ETTF Chairperson; and (iv) Ms. Hyunjung Lee, Senior Energy Economist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i>

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DAY 2, 5 December 2023	
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	<p><i>Comments by</i></p> <ul style="list-style-type: none"><li>• <i>Cambodia</i></li><li>• <i>People's Republic of China</i></li><li>• <i>Lao PDR</i></li><li>• <i>Myanmar</i></li><li>• <i>Thailand</i></li><li>• <i>Viet Nam</i></li></ul> <p><i>Q&amp;A</i></p>
16:30 – 17:00	<p><b>Closing of the 2<sup>nd</sup> ETTF Committee Meeting</b></p> <p>(i) Recap of key meeting outcomes and next steps</p> <p>(ii) Closing remarks of the meeting and opening statement of the training session (day 3) by ETTF Chairperson and ADB</p> <p><b>Other Matters</b></p>
18:00 – 19:30	<p><b>Dinner</b></p>

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DAY 3, 6 December 2023 (Training Session, Regional Power Trade Working Group)	
Time (Cambodia)	Item
7:30 – 8:00	<p><b>Registration/Log-in Zoom</b></p> <p><b>Zoom Link/Details:</b> <a href="https://adb-org.zoom.us/j/98494826894?pwd=d056dVRyV2RiYkpJSHJ1eDhCaWREQT09">https://adb-org.zoom.us/j/98494826894?pwd=d056dVRyV2RiYkpJSHJ1eDhCaWREQT09</a></p> <p><b>Meeting ID:</b> 984 9482 6894 <b>Passcode:</b> ADB12345</p>
8:00 – 8:30	<p><b>Overview of Day 3</b> <i>by Ms. Hyunjung Lee, Senior Energy Economist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i></p>
8:30 – 9:45	<p><b>Recap of the regional power market fundamentals</b> This will give a brief recap of the presentations done in the 2-day workshop in Vientiane to bring the participants up to speed and allow potential new participants to get an introduction.</p> <p><i>Presentation by</i> <i>(i) Mr. Hans-Arild Bredesen, International Power Market Expert, ADB Consultant;</i> <i>and</i> <i>(ii) Mr. Jonathan Hedgecock, International Regional Power Trade Expert, ADB Consultant</i></p>
9:45 – 10:00	<p><b>Coffee/Tea Break</b></p>
10:00 – 10:45	<p><b>Regional Power Trade in a Day-ahead market in the GMS</b> Continued presentation on the Day-ahead market fundamentals and introduction on how to trade.</p> <p><i>Presentation by</i> <i>(i) Mr. Hans-Arild Bredesen, International Power Market Expert, ADB Consultant;</i> <i>and</i> <i>(ii) Mr. Jonathan Hedgecock, International Regional Power Trade Expert, ADB Consultant</i></p>

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<b>DAY 3, 6 December 2023 (Training Session, Regional Power Trade Working Group)</b>	
<b>Time (Cambodia)</b>	<b>Item</b>
10:45 – 12:00	<p><b>The Shadow Power Market and Pilot Multilateral Power Trade setup</b></p> <p>The session presents a real trading platform illustrating how a future shadow trading environment will look like and setting the stage for our hands-on training session.</p> <p><i>Presentation by</i></p> <p><i>(i) Mr. Hans-Arild Bredesen, International Power Market Expert, ADB Consultant; and</i></p> <p><i>(ii) Mr. Jonathan Hedgecock, International Regional Power Trade Expert, ADB Consultant</i></p>
12:00 – 13:30	<p><b>Lunch</b></p>
13:30 – 14:30	<p><b>Hands-on training – demonstration of the platform</b></p> <p>This session will show through live examples how this market will work.</p> <p><i>Presentation by</i></p> <p><i>(i) Mr. Hans-Arild Bredesen, International Power Market Expert, ADB Consultant; and</i></p> <p><i>(ii) Mr. Jonathan Hedgecock, International Regional Power Trade Expert, ADB Consultant</i></p>
14:30 – 15:30	<p><b>Hands-on training on a test platform</b></p> <p>This session will allow all market participants in the training to get access to the market trading platform and through structured scenarios try to enter orders into the market and get a result.</p> <p>We will discuss both the orders from each participant as well as the results coming after the price calculation has been finalized.</p> <p><i>Facilitated by</i></p> <p><i>(i) Mr. Hans-Arild Bredesen, International Power Market Expert, ADB Consultant;</i></p> <p><i>(ii) Mr. Jonathan Hedgecock, International Regional Power Trade Expert, ADB Consultant; and</i></p> <p><i>(iii) Mr. Mr. Vanthong Inthavong, Project Officer (Infrastructure), LRM</i></p>
15:30 – 15:45	<p><b>Coffee / Tea Break</b></p>
16:15 – 16:45	<p><b>Hands-on training on a test platform - continued</b></p> <p><i>Facilitated by</i></p> <p><i>(i) Mr. Hans-Arild Bredesen, International Power Market Expert, ADB Consultant;</i></p> <p><i>(ii) Mr. Jonathan Hedgecock, International Regional Power Trade Expert, ADB Consultant; and</i></p> <p><i>(iii) Mr. Vanthong Inthavong, Project Officer (Infrastructure), LRM</i></p>

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<b>DAY 3, 6 December 2023 (Training Session, Regional Power Trade Working Group)</b>	
<b>Time (Cambodia)</b>	<b>Item</b>
16:15 – 16:45	<p><b>Summary of results and participants views</b> <i>Moderated by Ms. Hyunjung Lee, Senior Energy Economist, Pacific and Southeast Asia Team, Energy Sector Office, Sectors Group, ADB</i></p> <p><b>Comments by all participants</b></p>
16:45 – 17:00	<p><b>Closing of the training session</b></p> <p>(i) Next steps (iii) Closing remarks by ETTF Chairperson and ADB</p>