



## SUMMARY NOTES

### EEAP WEBINAR 14

#### Evaluation of Energy Programs and Policies in the Asia Pacific

On December 10, 2024, the Energy Evaluation Asia Pacific (EEAP) hosted its 14th webinar focusing on the topic of ‘Evaluation of Energy Programs and Policies in the Asia Pacific’. This insightful webinar featured two notable speakers:

- Jacqueline Lam, Regional Director, Asia, Sustainable Energy for All (SEforALL)
- Dang Quoc Bao, Deputy General Director, Trung Nam Construction Investment Corp. (Trungham Group)

Jacqueline’s presentation focused on advancing energy efficiency across Asia-Pacific to achieve SDG 7, highlighting investment needs, policy challenges, and initiatives like Mission Efficiency that drive collaboration and support in clean energy transitions. Bao’s presentation focused on Vietnam’s renewable energy potential, emphasizing its unique ability to harness both wind and solar resources, the market’s evolution, policy developments, and infrastructure challenges, along with the private sector’s role in driving installations and sustainability efforts.

The webinar highlighted the critical role of energy efficiency and renewable energy in advancing sustainable transitions across Asia-Pacific, showcasing Vietnam’s unique renewable energy potential and the importance of collaborative efforts, investments, and policy alignment to overcome challenges and achieve global clean energy and efficiency goals.

This document summarizes the key discussion points from the webinar.

### Webinar Agenda

Time (China Standard Time)	Sessions/Speakers
9:00-9:05 AM	<b>Welcome Remarks &amp; Context Setting</b>  <i>Edward Vine, Affiliate, Lawrence Berkeley National Laboratory (LBNL) and Steering Committee Member, Energy Evaluation Asia Pacific (EEAP)</i>
9:05-9:40 AM	<b>Presenters</b>  <b>1. Jacqueline Lam</b> , Regional Director, Asia, Sustainable Energy for All (SEforALL)

	<p><b>“Mission Efficiency: Partnerships and Collaboration for Energy Efficiency”</b></p> <p><b>2. Dang Quoc Bao</b>, Deputy General Director, Trung Nam Construction Investment Corp. (Trungham Group)</p> <p><b>“Advancing Direct Power Purchase Agreements (DPPA) and Rooftop Solar in Vietnam”</b></p>
9:40- 9:55 AM	<p><b>Moderated Audience Q&amp;A</b></p> <p>Moderated by <b>Edward Vine</b>, Affiliate, Lawrence Berkeley National Laboratory (LBNL) and Steering Committee Member, Energy Evaluation Asia Pacific (EEAP)</p>
10:00 AM	<p><b>Concluding Comments &amp; Vote of thanks</b></p> <p><b>Edward Vine</b> , Affiliate, Lawrence Berkeley National Laboratory (LBNL) and Steering Committee Member, Energy Evaluation Asia Pacific (EEAP)</p>

## Introduction and Context Setting

Edward Vine, Affiliate, Lawrence Berkeley National Laboratory (LBNL) and Steering Committee Member, Energy Evaluation Asia Pacific (EEAP)



Ed Vine, a member of the Steering Committee for EEAP, greeted the participants and speakers, introduced EEAP and provided a context of the webinar.

## **Introduction to Energy Evaluation Asia Pacific (EEAP)**

Ed introduced EEAP to the participants. Established as a non-profit organization in 2018, and modelled after IEPEC (US, since 1983) and IEPPEC (Europe, since 2010), EEAP is focused on expanding the practice of objective evaluation in the Asia Pacific region. EEAP's mission is to lead in expanding evaluation practices, building capacity, and understanding the impact of energy efficiency and renewable energy programs and policies, aiming to provide a strong evidence basis for continuous improvement in these areas.

EEAP fosters exchange and interaction among evaluators, NGOs, government agencies, and academics to promote the value of energy evaluation and capacity building. EEAP offers a database of resources on best practices, holds webinars on various topics, and organizes international events and conferences, particularly in relation to the Sustainable Development Goals (SDGs). EEAP brings stakeholders together to support data-driven decision-making in the energy sector. One of its main objectives is capacity building, especially in the rapidly growing Asia Pacific region.

Ed also informed the audience that EEAP is planning to have a conference next year in Indonesia. The details will be shared by the end of this year on EEAP’s website and social media.

Ed introduced the speakers and the topic they talked about.

## Presentation by Speakers

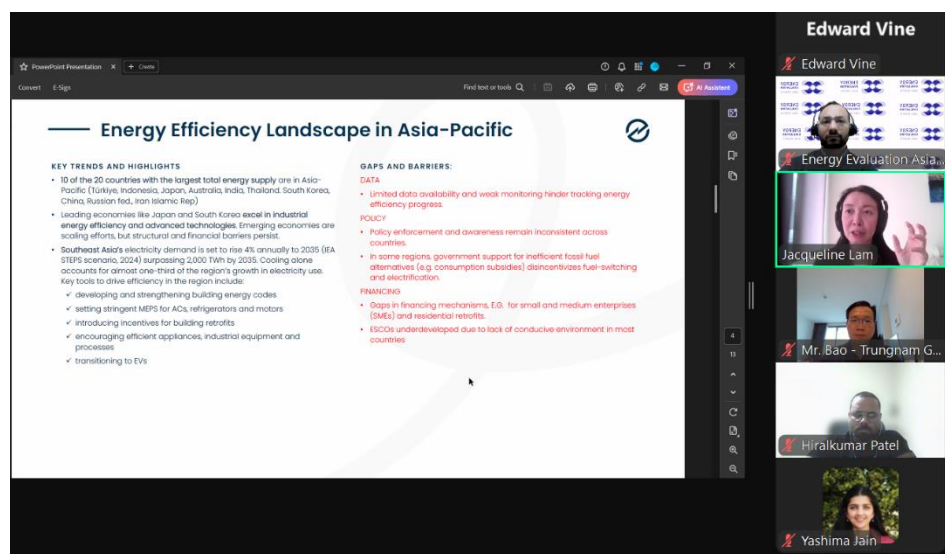
### **Mission Efficiency: Partnerships and Collaboration for Energy Efficiency**

Jacqueline Lam, Regional Director, Asia, Sustainable Energy for All (SEforALL)



Jacqueline Lam stated by introducing her organization’s efforts to achieve Sustainable Development Goal 7—ensuring clean, affordable, and universal energy access. She emphasized the importance of energy efficiency in reducing energy intensity and emissions, calling it the “first fuel” for cost savings and renewable energy deployment. Achieving global energy efficiency and renewable energy targets set during COP28 could significantly reduce energy demand, making clean energy transitions more feasible.

Jacqueline highlighted the substantial investment needs in energy efficiency across Asia-Pacific—\$50 billion in Southeast Asia, \$78 billion in India, and \$96 billion combined for Japan and South Korea. However, challenges such as fragmented policies, inconsistent incentives, and limited investor awareness hinder progress. Strong frameworks in countries like Japan and South Korea contrast with the fragmented approaches in Southeast Asia.



The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "Energy Efficiency Landscape in Asia-Pacific". The slide content includes:

- KEY TRENDS AND HIGHLIGHTS**
  - 10 of the 20 countries with the largest total energy supply are in Asia-Pacific (Turkey, Indonesia, Japan, Australia, India, Thailand, South Korea, China, Russian Fed, Iran Islamic Rep).
  - Leading economies like Japan and South Korea excel in industrial energy efficiency and advanced technologies. Emerging economies are scaling efforts, but structural and financial barriers persist.
  - Southeast Asia's electricity demand is set to rise 4% annually to 2035 (IEA STEPS scenario, 2024) surpassing 2,000 TWh by 2035. Cooling alone accounts for almost one-third of the region's growth in electricity use. Key tools to drive efficiency in the region include:
    - developing and strengthening building energy codes
    - setting stringent MEPS for A/Cs, refrigerators and motors
    - introducing incentives for building retrofits
    - encouraging efficient appliances, industrial equipment and processes
    - transitioning to EVs
- GAPS AND BARRIERS:**
  - DATA**
    - Limited data availability and weak monitoring hinder tracking energy efficiency progress.
  - POLICY**
    - Policy enforcement and awareness remain inconsistent across countries.
    - In some regions, government support for inefficient fossil fuel alternatives (e.g. consumption subsidies) discourages fuel-switching and electrification.
  - FINANCING**
    - Gaps in financing mechanisms, E.G. for small and medium enterprises (SMEs) and residential retrofits.
    - ESCOs underdeveloped due to lack of conducive environment in most countries.

The Zoom meeting grid shows participants: Edward Vine (top), Jacqueline Lam (middle), Mr. Bao - Trungnam G... (bottom left), Hiral Kumar Patel (bottom middle), and Yashima Jain (bottom right).

She introduced Mission Efficiency, a global coalition focused on elevating, supporting, and investing in energy efficiency. A key initiative involves assessing and improving energy efficiency in industrial parks across Southeast Asia. By evaluating energy intensity, activities, and growth projections, the

coalition recommends efficiency measures and fosters collaboration through its marketplace.

Jacqueline encouraged participation via the coalition’s website, [missionefficiency.org](http://missionefficiency.org), offering opportunities to endorse the mission, pledge support, or join task forces. Addressing a query, she noted the coalition’s flexibility to operate at national or sectoral levels, partnering with governments or energy service companies as needed.

She concluded by inviting further engagement and highlighting the critical role of collective action in advancing global energy efficiency goals.

## Main Takeaways

- **Energy Efficiency's Importance:** Energy efficiency is key to clean energy transitions, requiring collaboration to overcome policy gaps and investment challenges.
- **Mission Efficiency Platform:** Mission Efficiency drives global energy efficiency efforts through tailored programs and stakeholder collaboration opportunities.

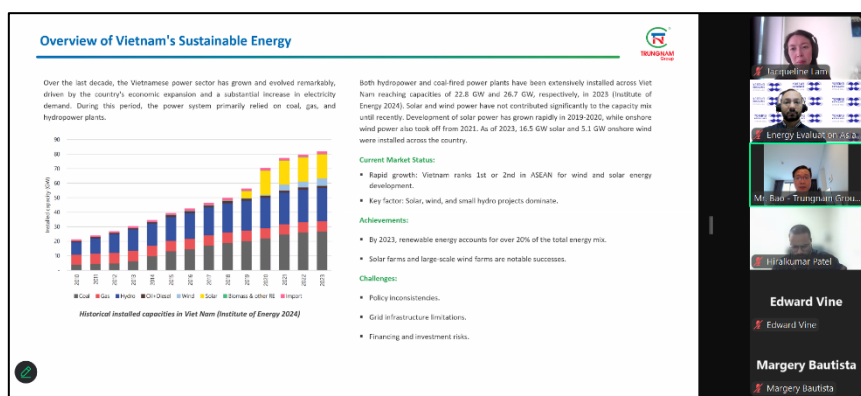
## Advancing Direct Power Purchase Agreements (DPPA) and Rooftop Solar in Vietnam

Dang Quoc Bao, Deputy General Director, Trung Nam Construction Investment Corp. (Trungnam Group)



Mr. Bao highlighted Vietnam's potential for renewable energy, focusing on wind and solar resources. Unlike other Southeast Asian countries that rely mostly on solar energy, Vietnam can harness both, offering a unique advantage. However, challenges remain, including policy inconsistencies and grid infrastructure limitations, which are managed by the state-run EVN company.

Bao outlined Vietnam's renewable energy market evolution in distinct periods. Before 2016, the market relied on coal and hydropower. From 2016 to 2021, it grew rapidly due to favorable policies like high feed-in tariffs, growing private sector participation and decreasing installation costs. But by 2021, grid infrastructure struggles and regulatory instability slowed progress. From 2022-2024, Renewable energy market faced its slowest growth in years due to Policy deadlock and lack of leadership in transitioning from FITs to new mechanisms. Post-2024, new government policies, such as direct power purchase agreements and investor selection, aimed to stabilize the market. He compared Vietnam with other Asian countries, noting reliance on hydropower and domestic coal reserves.



The private sector played a crucial role, with companies securing land for projects and driving installations. For instance, wind energy surged from 0.5% to 11% of the market by 2021. Despite high renewable energy purchase prices, the market remains a leader in Asia.

Bao concluded that Vietnam's renewable energy sector is shifting toward a more sustainable path, with new policies and infrastructure developments addressing challenges. These efforts aim to create a balanced, stable, and robust market, ensuring the continued growth of Vietnam's renewable energy landscape.

Responding to a question, Bao noted that solar panels are now cheaper and easier to replace, making recycling viable. The costs of solar panel replacement and disposal are manageable due to lower investment prices, although labor costs remain a consideration.

### **Main Takeaways:**

- **Renewable Energy Potential and Challenges:** Vietnam has strong renewable energy potential but faces policy and infrastructure challenges.
- **Market Shift Post-2021:** New policies and agreements aim to stabilize the market and address infrastructure issues.

### **Presenters' Bio**

#### **Jacqueline Lam**

Jacqueline Lam, is the Regional Director for Asia at SEforALL.

Over the past 17 years, Jacqueline has worked with Boeing, Asian Development Bank, C40 Cities Climate Leadership Group as well as the Energy Market Authority and Ministry of Trade and Industry in Singapore. With varied experience in project development, implementation and stakeholder management, Jacqueline was most recently supporting the energy transition of the aviation sector, through biofuel industry development and project deployment for sustainable aviation fuel production in Southeast Asia. She also has an extensive policy support experience in multi-sectoral decarbonisation with developing economies.

Jacqueline holds a Bachelor's degree in Political Science from the National University of Singapore, and Master's degree in Development Studies from the University of New South Wales.

#### **Dang Quoc Bao**

Bao Dang Quoc is the Deputy General Director of Trungham Group and General Manager of GEIT, a subsidiary leading Vietnam's green transformation solutions. With over 15 years of experience in energy and infrastructure, Bao has been pivotal in shaping Trungham Group's position as a top investor in renewable energy since joining in 2016.

His expertise spans project development, policy advocacy, and sustainable energy strategies, driving Vietnam's energy transition and fostering innovation in renewable solutions. Bao holds an MBA from the University of Hawai'i at Mānoa, equipping him with a strong foundation to lead impactful initiatives in the renewable energy sector.

## EEAP's Upcoming Events

### EEAP Conference 2025

Theme: "Building an evidence-based path to net zero energy transition and global sustainable development"

June 2025, Jakarta, Indonesia

For more details, please check EEAP's website and social media pages:

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