

International Forum for Sustainable Asia and the Pacific (ISAP)

Thematic Tracks 2 (TT-2)

1 November 2024

Introductions of participants and objective of the workshop

Institute for Global Environmental Strategies
Research Manager / Project Leader (Mitigation and Adaptation Integration)
Yosuke Arino

The research project on long-term roadmap to synergise mitigation and adaptation, aiming for developing methodology (guidance) for ACCSAP, is supported by the Environment Research and Technology Development Fund (JPMEERF20221C06) of the Environmental Restoration and Conservation Agency provided by MOEJ.

Speakers and Panelists



Speaker

Rizaldi BOER,
Professor, IPB University
/ Head of the
International Research
Institute for Environment
and Climate Change



Speaker

**Damasa
MACANDOG,**
Adjunct Professor,
School of
Environmental
Science and
Management,
University of the
Philippines Los
Banos



Speaker

**Bundit
LIMMEESHOKCHAI,**
Head of Research Unit
in Sustainable Energy &
Built Environment,
Faculty of Architecture
and Planning,
Thammasat University



Speaker

TRAN Thanh Thuy,
Director, Department of
Science, Training,
International Cooperation,
and Journal, Viet Nam
Institute of Meteorology,
Hydrology, and Climate
Change (IMHEN)

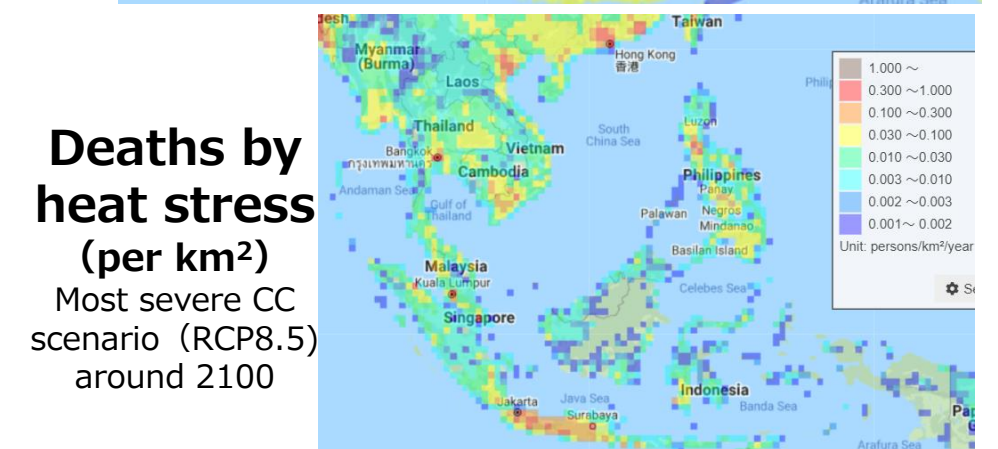
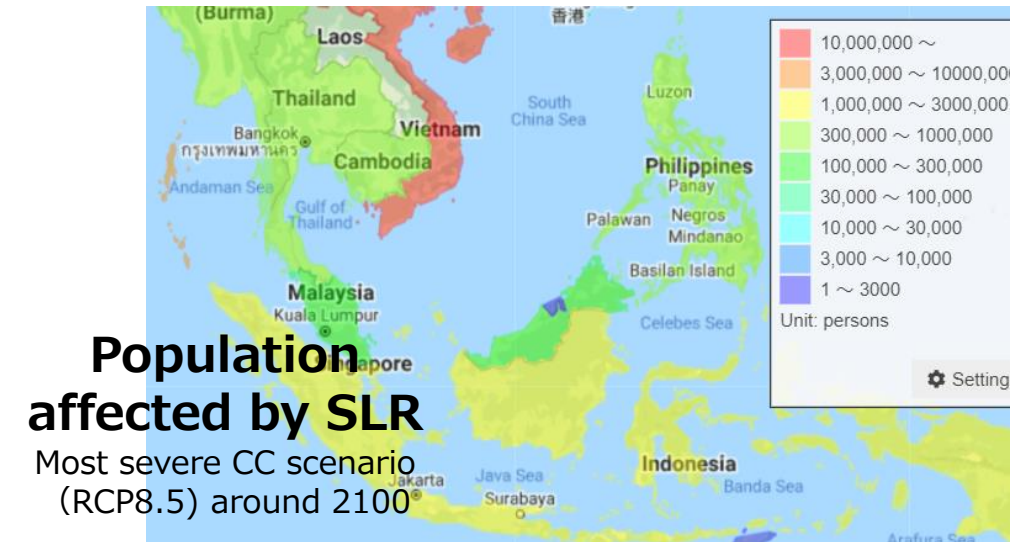
Future impacts of climate change

*Projected climate change and impacts by climate models
(from AP-PLAT etc.)*

1. The projected climate change varies from country to country within the ASEAN region
2. General trend in **increased extreme events** such as an increase in extreme precipitation events, increase in hot days, extreme floods, and change in the behavior of typhoons and droughts.
3. **Climate change impact on crop productivity is significant** in the ASEAN region. For rice crop, the CO₂ fertilization effect can also be seen prominently.
4. **Significant economic impact and number of people affected due to sea level rise (SLR)** in Indonesia, Thailand and Vietnam
5. The **heat stress impacts** are significantly higher in countries such as Myanmar, the Philippines, Thailand and Vietnam. A need to introduce adaptation practices.



AP-PLAT
Asia-Pacific
Climate Change Adaptation
Information Platform



GHG emission pathways toward 2100

The global 1.5 °C target calls for ASEAN to achieve a **net-zero CO₂ emission in 2050** while ASEAN needs to achieve **net zero GHG emissions in 2065** on average across models.

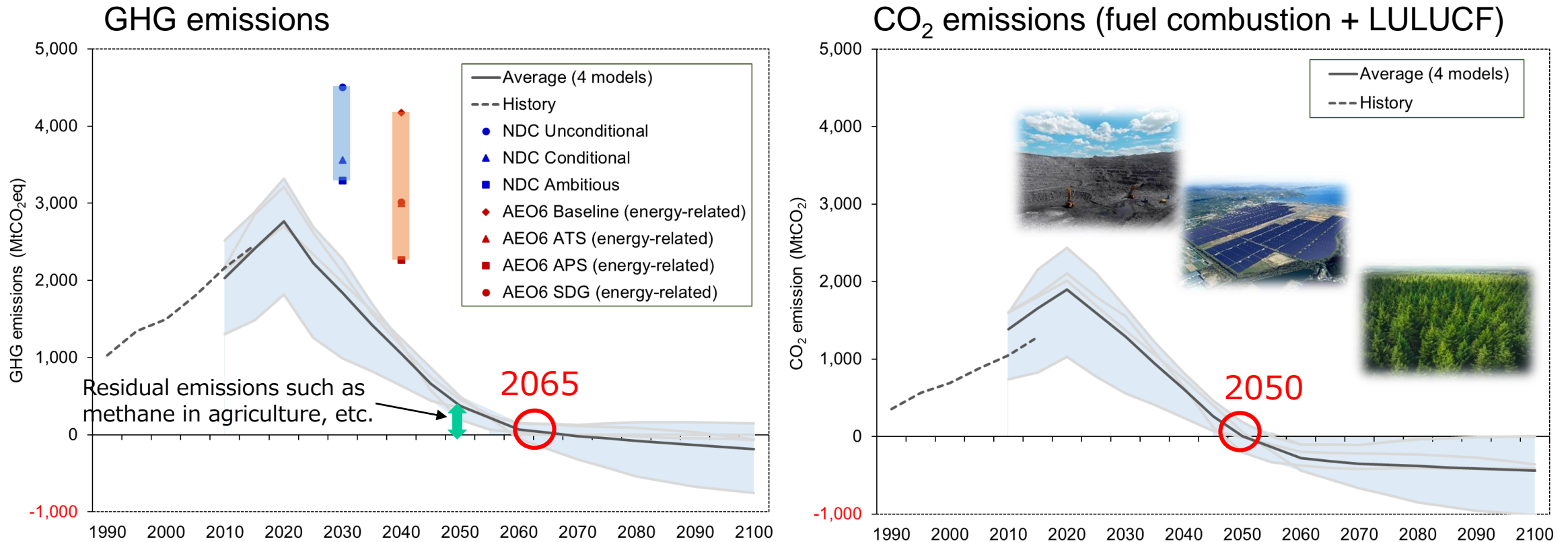
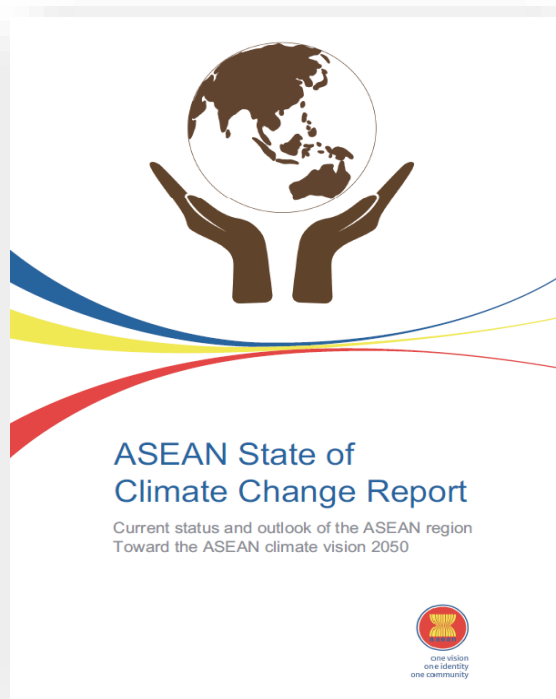


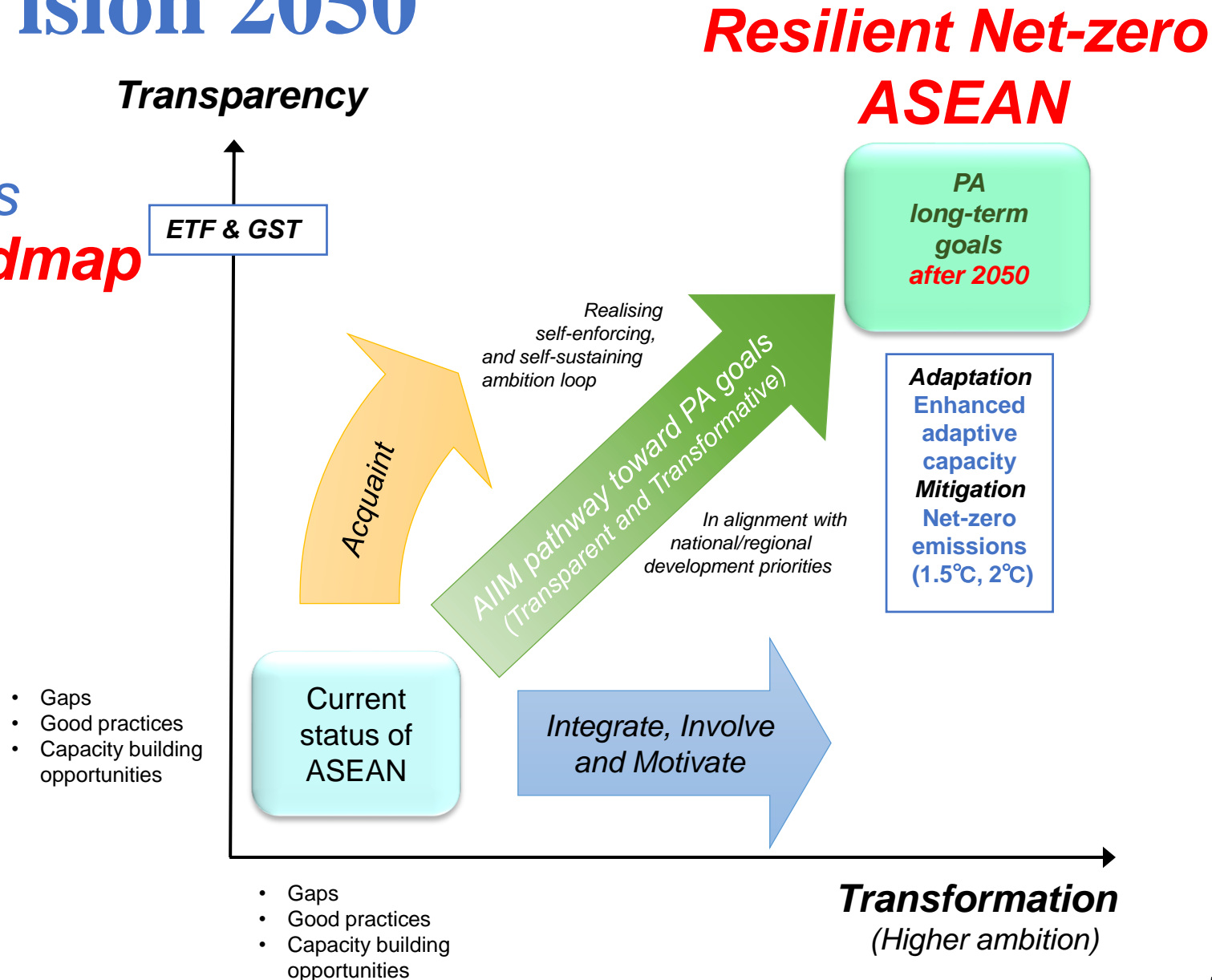
Figure 16. Historical and future GHG and CO₂ emissions pathways in ASEAN to meet the 1.5°C target on a global scale. CO₂ emissions include emissions from fuel combustion, industrial processes, and LULUCF. Four models whose simulation results shown are AIM/CGE 2.1, MESSAGEix-GLOBIOM 1.0, REMIND-MAGPIE 1.7-3.0, and WITCH-GLOBIOM 4.4.

ASEAN Climate Vision 2050

Unprecedented regional challenge calls for ASEAN's **long-term vision and roadmap** to tackle climate change



Source: ASEAN Secretariat (2021)



ETF: Enhanced Transparency Framework, GST: Global Stocktake

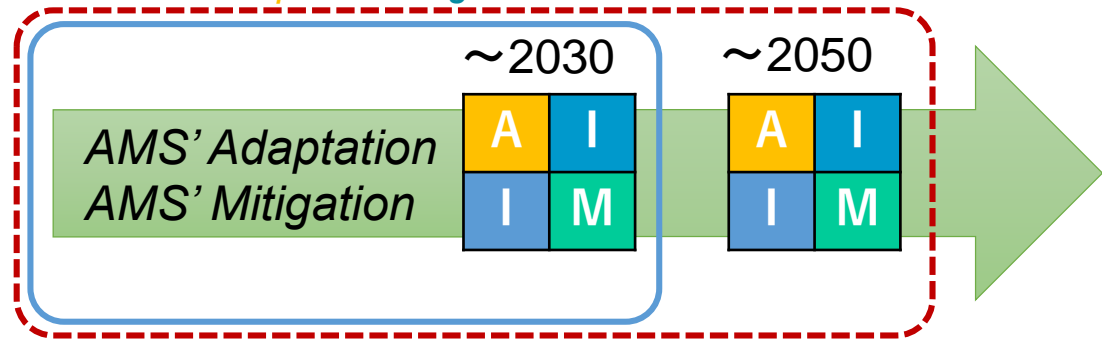
ACCSAP & Guidance on National Long-term Roadmap to Synergize Mitigation and Adaptation

AIIM PATHWAY

Acquaint-Integrate-Involve-Motivate



Current status of ASEAN



ASEAN's overall goal in line with PA goals

Development
Adaptation
Mitigation
Synergising adaptation & mitigation

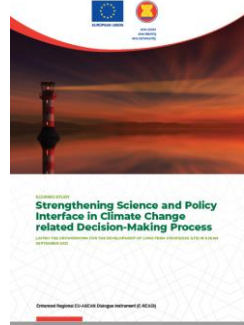
Strategic Action Plans until 2030

Long-term Roadmap

LTS' Scoping study

i) Accelerate AMS' NDC roadmaps; ii) Review and implement AAP, iii) Integrate multiple strategies/plans/programmes into strategic areas, iv) enable long-term transitions, v) support the ASEAN Centre for Climate Change

Analyses on the **National Long-Term Roadmap** to synergise **Mitigation and Adaptation**



By 2025

By 2025

ASEAN Climate Change Strategic Action Plan 2025-2030 (ACCSAP)

Guidance on the Long-Term Roadmap to Synergise M&A

Objective/ Approach

Outputs



Contribution to ACCSAP

Objective

1. To share the **preliminary results** of the ongoing international research project on the **national long-term roadmap to synergize mitigation and adaptation in ASEAN countries**
2. To provide **recommendations about the mitigation and adaptation integration at the national policy level** in ASEAN/Asian countries, featuring discussions based on the opinions and perceptions of key stakeholders such as experts, industries, and youth

ご清聴ありがとうございました。
Thank you very much for your attention.