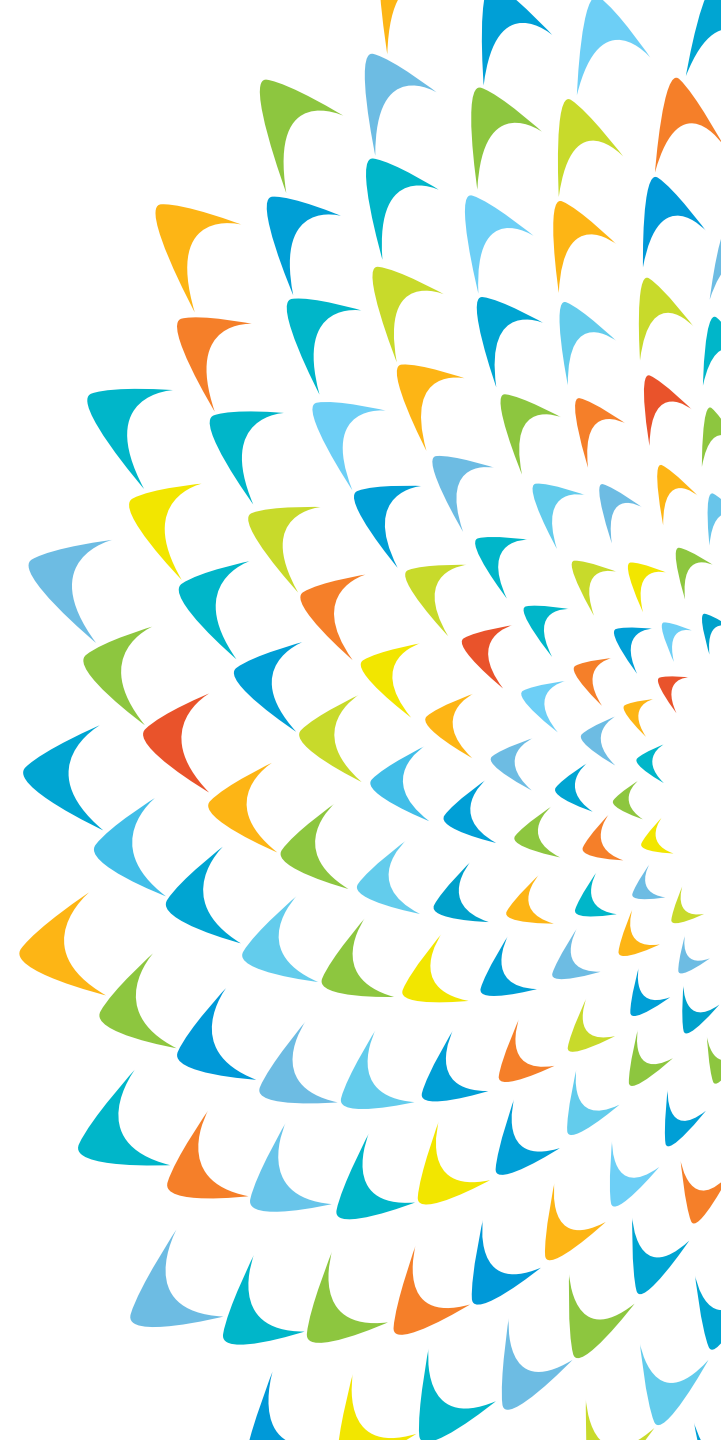




***TORs for the
GMS Energy Transition
Taskforce (ETTF)***





ETTF Rationale

- Energy transition (ET) to cleaner fuels (solar, wind, sustainable hydropower, and energy storage coupled with energy efficiency) is a global focus to reduce greenhouse gas (GHG) emissions (limiting the global temperature rise by 1.5 C)
- Challenges of ET:
 - determining what will be the energy mix and transmission grid flexibility requirements
 - how to use battery energy storage (BESS) within transmission and distribution systems for grid stability as well as assessing need for longer-term energy storage back-up
 - infrastructure required for electric vehicles



ETTF Rationale

- GMS needs a transition vision that puts emphasis on the region's inclusive development of clean energy in transitioning away from fossil fuels
- A clear pathway for adopting renewable energy including smart solar, biofuels, battery energy storage system (BESS), and energy efficiency for the future shared prosperity of the GMS
- Cross border power trade also moves to multi-lateral energy trade
- These are areas that will be discussed and addressed within the GMS Energy Transition Task Force (ETTF)
- Later ETTF may consider green hydrogen and carbon capture and storage (CCS) when these technologies are mature enough



ETTF Objectives

To assist GMS countries in answering:

- what role can sustainable energy play in realizing the desired future clean energy supply as required for national climate goals that are aligned with Paris agreement
- which technologies can support the energy transition from fossil fuels to renewables
- what opportunities will this create for GMS companies?, how will this create new jobs?, how these opportunities can be realized and maximized while ensuring a just and equitable transition for power plant workers and communities
- how GMS countries can address energy affordability?.



ETTF Key workstreams

- i. **Sustaining GMS cooperation on Regional Power trade; planning and executing future bilateral or multilateral interconnections, including a multi-country pilot.** This includes regular updating of GMS Power Interconnection Projects including planned new interconnections with capacity in MW, indicative timeline of commercial operation, amount of electricity to be traded, and prices during peak and off-peak periods; and planning and executing future bilateral or multilateral interconnections.
- ii. **Technology Capacity Building Programs on Renewable Energy, Energy Storage (BESS and pump storage hydro) in improving grid stability; leveraging electric vehicles.**
- iii. **Accelerating Energy Efficiency programs to promote more competitive industries through energy cost savings.**
- iv. **Training on Green financing and Green bonds to support GMS countries in raising finance for their transition to cleaner energy.**





ETTF Activities — Regional Power trade

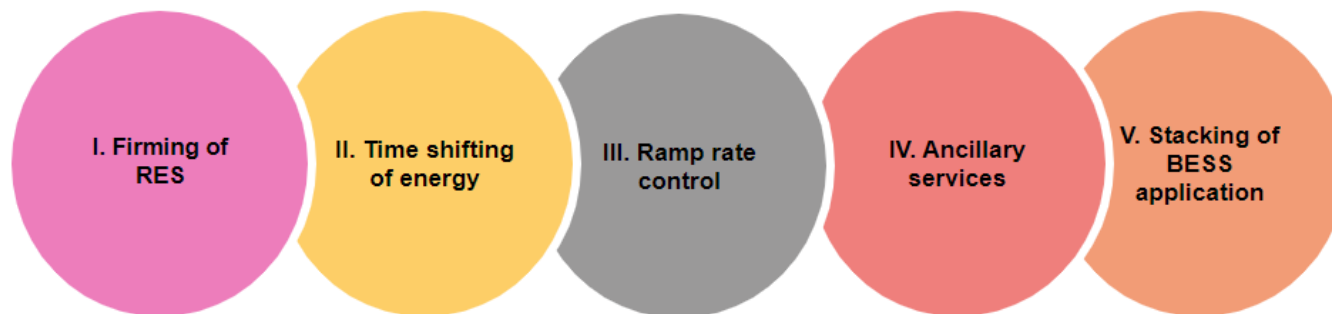
- **Updating of existing and planned GMS Cross-border power interconnections.**
 1. Questionnaire and template to be drafted and circulated to GMS countries on the existing and planned power interconnections over the next two-years. This will include amount of power traded, price of electricity sold during peak and off-peak periods.
 2. The update will be on regular basis e.g., every year the resulting collated information will be posted on ADB GMS website
- Identifying and/or review cross-border projects multilateral implications (cross-border interconnections with 3 or more countries) targets, for inclusion in future reviews of the GMS Regional Investment Framework (RIF) implementation plan.





ETTF Activities — Renewables & BESS

- **Trainings on BESS** and how it can be used to manage the intermittency of power supply from renewables in improving transmission and distribution grid stability.

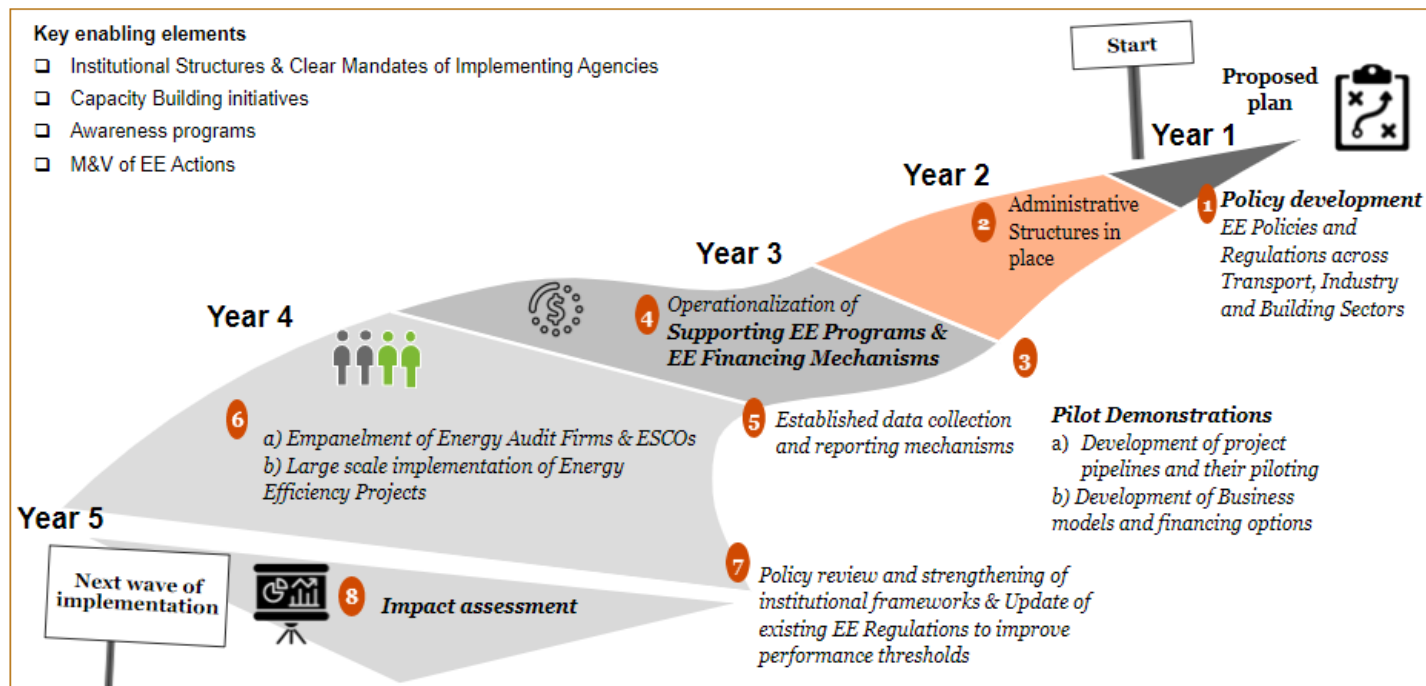


- Develop a **draft EV roadmap** over the 15-18 months that can be used as a GMS plan in phasing out of internal combustion engines.

ETTF Activities — Energy Efficiency

- Accelerating energy efficiency programs within the GMS to promote more competitive industries through energy cost savings, outreach of energy services to rural poor, efficient generation and supply, and efficient technologies and employment gains following international best practices.

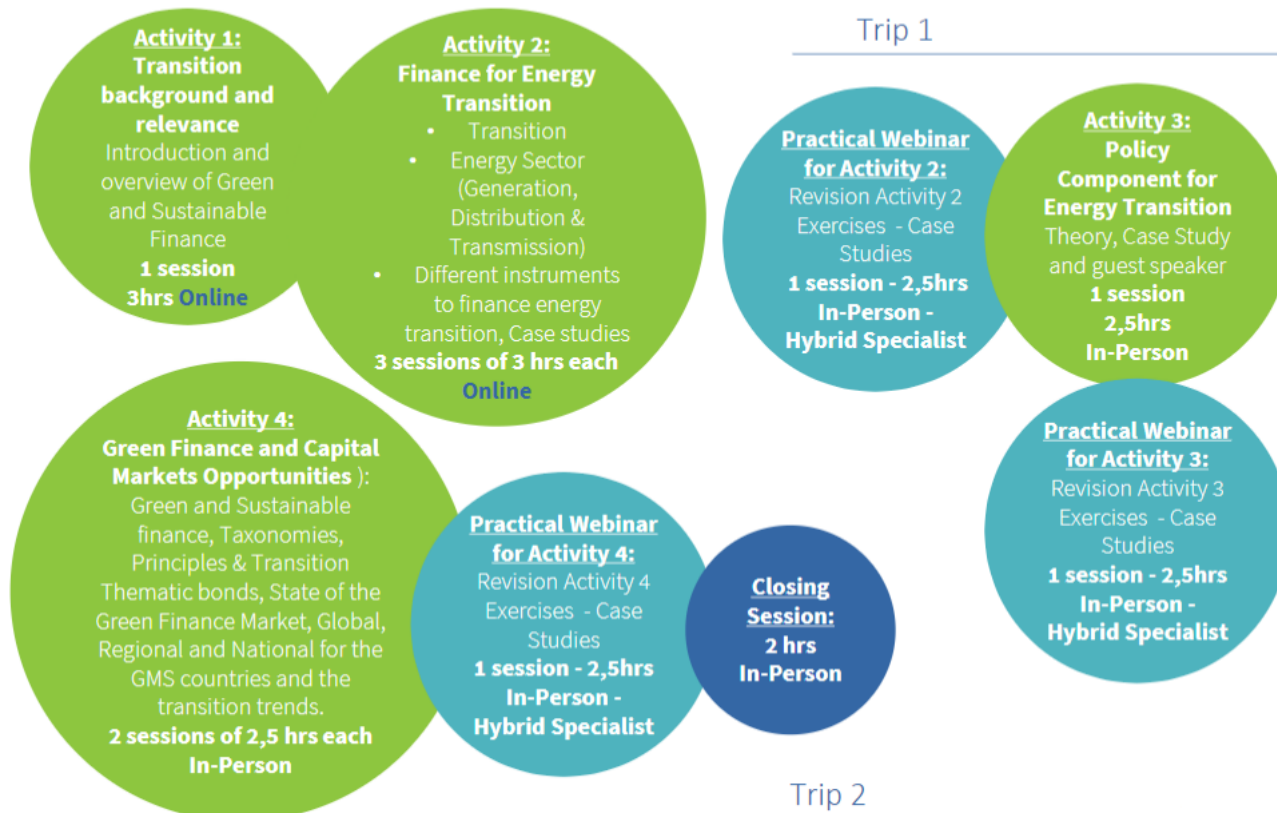
High Level Roadmap for Energy Efficiency Transition in GMS Countries





ETTF Activities – Green Finance & Regional Cooperation

1. Development of **Green Financing and Green Bonds** for the GMS to invest in clean energy projects to displace fossil fuels.





ETTF membership

- Each GMS country will nominate four persons to be ETTF members, headed preferably by the GMS National Coordinator (NC+4).
- The suggested members of the Task Force are high-level officials (Director General/Deputy Director General) of relevant ministries.
- Three persons from ADB will also be assigned to the ETTF.
- Within each GMS country's ETTF delegation, one official shall be designated as the Core Coordination member of their country's delegation to the Energy Transition Task Force. The Core Coordination member shall serve as Chair of the Task Force.





ETTF coordination

- To support the work of Energy Transition Task Force, the following resources shall be allocated:
- Chair: Host country's lead ETTF member
- Co-Chair: Director, Southeast Asia Energy Division (SEEN), Southeast Asia Regional Department (SERD)
- Secretariat: ADB SERD
- Southeast Asia Regional Cooperation and Operations Coordination Division (SERC) and SEEN.

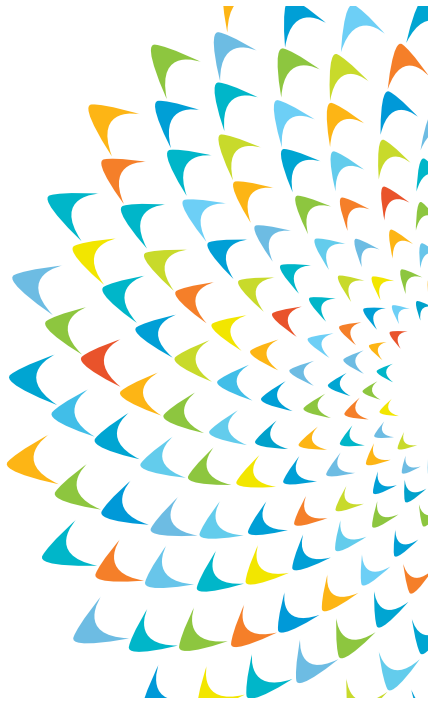


Training plan timeline over the next year

GMS Training plan				
Milestone description	Q3 2022	Q4 2022	Q1 2023	Q2 2023
Regional Power trade pilots				
On-going support				
Renewable Energy & BESS				
Training 1				
Study Tour		Combined with EE Study tour		
Training 2				
Training 3				
Ongoing Webinars				
Energy efficiency				
Training 1				
Study Tour		Combined with RE & BESS Tour		
On-going webinars				
Green Financing & Green bonds				
Training 1 & 2				
Training 3				
On-going webinars				



ADB



Thank you !