This is a comprehensive and practical training program focused on energy efficiency and conservation (EE&C) policies and fundamental technologies in commercial and residential sector, which includes a series of lectures and field trips on relevant technologies such as air conditioning, lighting and smart grid. The expected candidates are technical officials or engineers involved in EE&C in the above sector.

**Objective/Outcome**

- **Objective**: Action plan of policies and activities on EE&C in commercial and residential sector is proposed.
- **Outcome**:
  1. To understand EE&C policies, especially those in commercial and residential sector, in Japan, to utilize the knowledge for proposing policies and activities on EE&C in commercial and residential sector in the trainees’ own countries.
  2. To acquire EE&C technologies for buildings and houses, to consider applicable technologies for their own countries.
  3. To propose action plan for promoting EE&C in commercial and residential sector, utilizing the knowledge acquired from the training.
  4. To consider the action plan in respective organizations after returning home.

**Contents**

1. [LECTURE] global environment and EE&C, system and history of promotion of EE&C, laws and policies of EE&C (especially in commercial and residential sector) in Japan, EE&C in small and middle enterprises, basic strategy of EE&C policy planning, etc
   - [FIELD TRIP] Eco-museum, Eco-town
2. [LECTURE] basics of EE&C technologies (heat, fluid machinery, Air conditioning, Lighting, etc.)
   - [FIELD TRIP] models of EE&C in buildings and supermarkets, Visualized management of energy, Eco-house, ESCO,
   - [PRACTICE] Energy Auditing in building
3. Discussion and preparation of action plan
4. Submission of report to the trainees’ organizations

**Target Organization / Group**

- **Governmental/Non-Governmental/Public organization engaged in policy or promotion of EE&C in commercial and residential sector**
- **Technical officials or engineers in charge of EE&C in the target organization, who has at least 5 years’ experience**