Outcomes and lessons learned from the Comprehensive Review
-Energy Sector-

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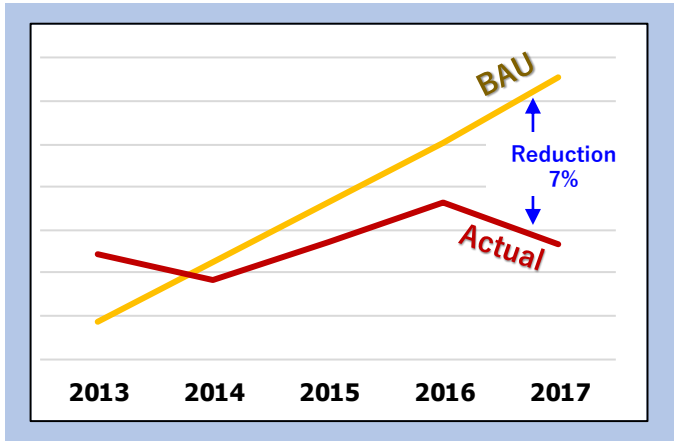
1. Outcome

Progress of Implementation

☐ GHG emission status (Decreasing trend)

Unit: million t-CO2e

	BAU GHG emission	Actual GHG emission (Targeted GHG emission in 2020)
2013	25.60	25.22
2016	26.52	25.81
2020	30.94	26.85



☐ Major causes of GHG emission trend

- Electricity consumption in residential sector increase over than our BAU, while in commercial sector decrease lower than BAU by installing high- efficiency equipment i.e. LED, SEER air condition
- Implementing EE measures from DEDE program resulting in decreasing of electricity consumption in major department stores and hospitals
- Decreasing of LPG consumption in residential sector and decreasing of petroleum products consumption in industry and commercial building

☐ Activities that lead to success

- Replace the existing air-condition by high- efficiency equipment: the project of renovation for Department of Public Work building, and Department Drainage and Sewerage building
- Construct the high energy efficiency building: Taksin Hospital, and Dindaeng district office Building
- Support energy saving exhibition continuously eg. 60+ Earth Hour 2018 and World Environment Day
- Circulate the official letter from Department of Environment to all BMA department – asking for cooperation in energy saving by reducing energy consumption from electricity devices such as air condition, lighting system, computer and etc

2. Challenges and lessons learned

◻ Challenges met and lessons learned

Groups	Challenges	Lessons learned
BMA	• Limitation of budget to retrofit the existing building • The knowledge of BMA staffs for designing the energy conservation building • No dissemination the modern technology knowledge to the public	• Support from higher administration level is needed for driving the project • Some of BMA staffs lack in-depth of energy conservation technology knowledge to disseminate to public
All Bangkok	• In overview, people are aware of energy conservation but access to technology is limited. • Energy consumption in public area is still a problem	• the energy conservation awareness should be cultivated since childhood

3. Proposal for enhanced actions

◻ Mitigation/adaptation actions

1. Technology: Plan to increase the installation of high-efficiency equipment in new and retrofit buildings

2019	2020	2021	2022	2023
New Building: 1. Taksin hospital 2. Dindaeng district office 3. Khlong sam wa hospital		**New Building:** 1. Lat Krabang Hospital 2. Hospital in Bangna district 3. Bangna district office		

2. Human resource development: Feasibility study of applying the energy conservation knowledge into the curriculum of school in Bangkok

Dindaeng District Office

Taksin Hospital