

# **BANGKOK**'s Efforts to Achieve – Net – Zero –

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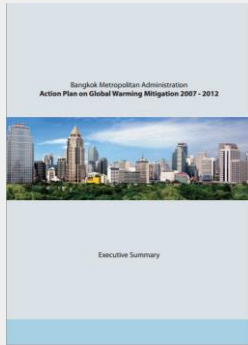
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# History of climate change efforts in Bangkok

1

## Bangkok Action Plan on Global Warming Mitigation



2007-2012

2

## Bangkok Master Plan on Climate Change



2013-2023

3

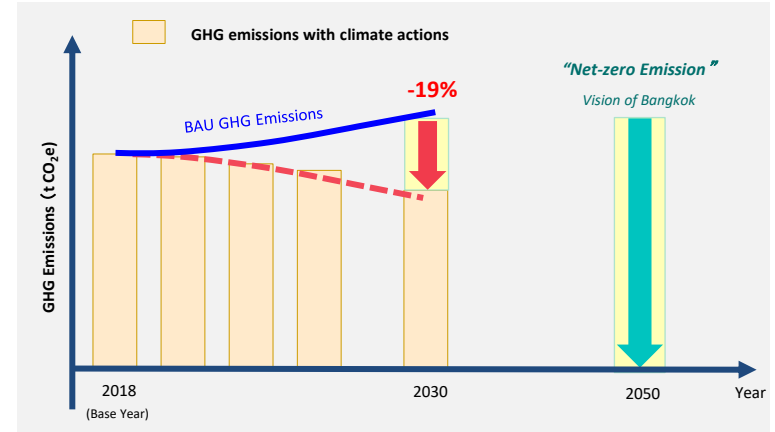
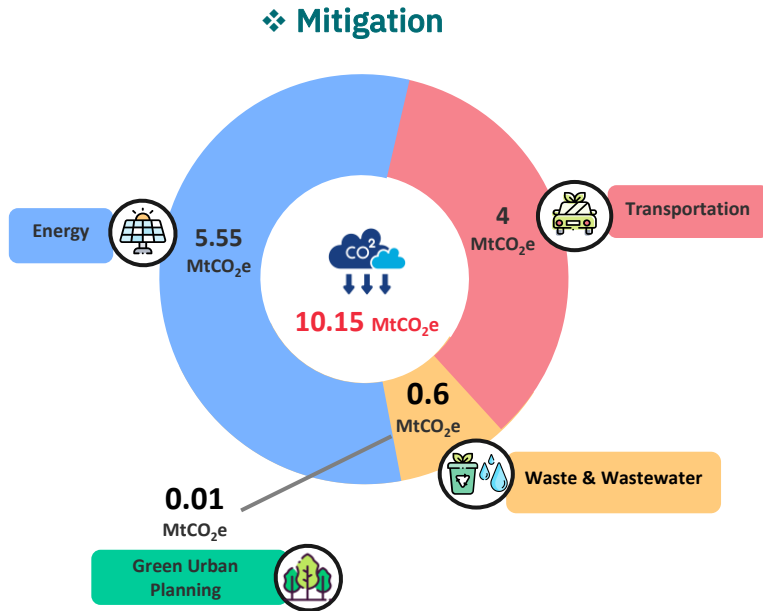
## Bangkok Master Plan on Climate Change



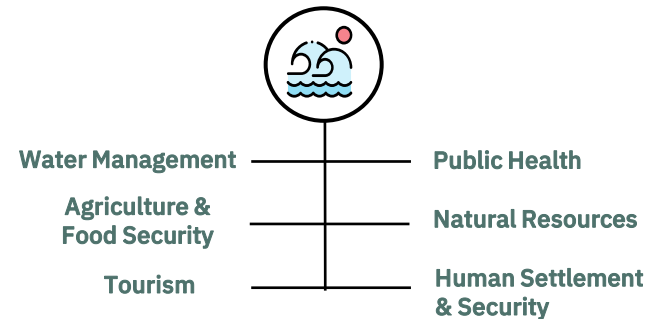
2021-2030

# Bangkok GHG Reduction Target

- Bangkok Master Plan on Climate change 2021-2030 set the target to reduce GHG 19% (10.15 MtCO<sub>2</sub>e) in 2030



## ❖ Adaptation



# Bangkok Climate Action



- Promotion of EV car
- Improvement of connectivity of public transportation

- Promotion of renewable energy (Solar PV)
- Improve and install high efficiency equipment
- Reduce Energy Consumption



- Promoting waste separation at source
- Establishment of wastewater treatment plants

- Planting trees and increasing green space
- Developing flood prevention and control systems







JICA and City to City  
Collaboration Projects



IGES and NIES



IFC

## Bangkok's Collaboration with Stakeholders



GIZ



Ministry of Natural Resources and  
Environment (Thailand)

# Bangkok Scenario toward Net Zero Emissions

❖ IGES and NIES has supported Bangkok for studying on “Bangkok Net Zero Emission Scenario” since 2022

## Scope of the Study

- To enhance the Bangkok Master Plan by analyzing scenarios for the years 2040 and 2050 towards net-zero emissions
- Asia-Pacific Integrated Model (AIM) is used for scenario analysis.



Bangkok  
Metropolitan  
Administration

- Involvement of stakeholders
- Validation of the scenario



The Creagy

- Data collection
- Validation of the scenario



Institute for  
Global Environmental  
Strategies

- Scenario analysis
- Data collection



E-Konzal  
National Institute for  
Environmental Studies,  
Japan

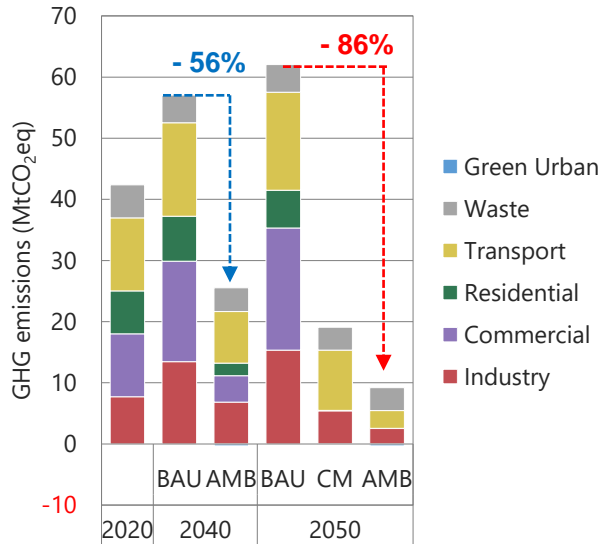


Japan International  
Cooperation  
Agency

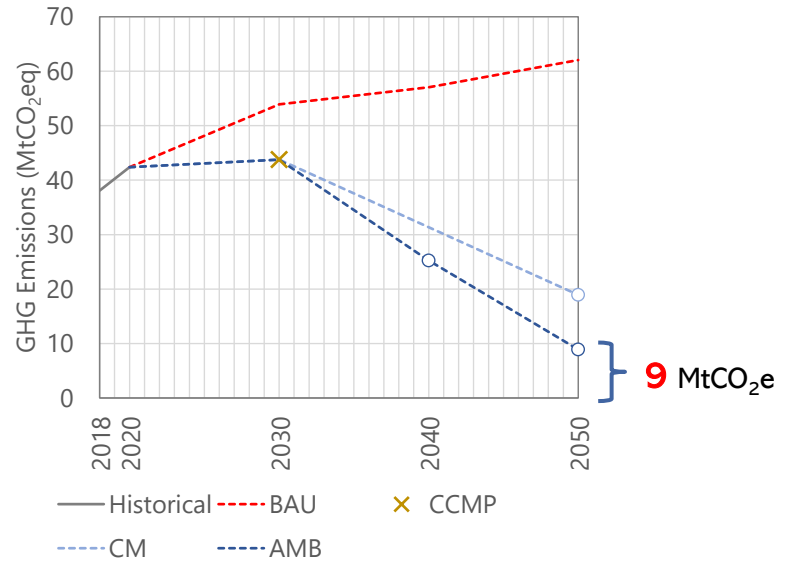
- Coordination

# Bangkok Scenario toward Net Zero Emissions

- ❖ The reductions of GHG emissions in 2040 and 2050 for AMB (Ambitious) scenario relative to BAU scenario are 56% and 86%.
- ❖ GHG emissions will be reduced to 9MtCO<sub>2</sub>eq in 2050.
- ❖ Additional measures such as negative emission technologies are required to achieve net-zero emissions by 2050.



GHG Emissions by Sector



Emission Trajectory



# Challenges and Opportunities



## Technological and Innovation

- Carbon Capture
- Green Hydrogen



## Financial Investment

- Planning and preparation of sufficient budget
- Potential to access green finance



## Global Collaboration

- Exchange of best practices and knowledge
- Financial and technical expert support



## Carbon Credit

- Develop the pilot project for carbon credit



**2030**  
Reduce GHG  
10 MtCO<sub>2</sub>e

**2050**  
Net Zero



**BMA**



**Let's Move Forward**

**in Solidarity for a GREEN WORLD**



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