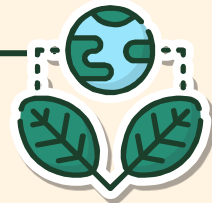


National Government Role In Subnational Climate Action

Case Study : Bangkok (City to City Collaboration Project)

Mrs. Sermsook Noppun
Head of Climate Change Strategy Sub-Division
Environment Department, BMA



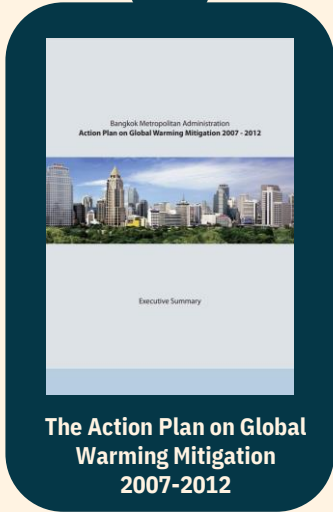
Milestone of Bangkok Climate Change MP Development



20-year Bangkok Development Plan



1



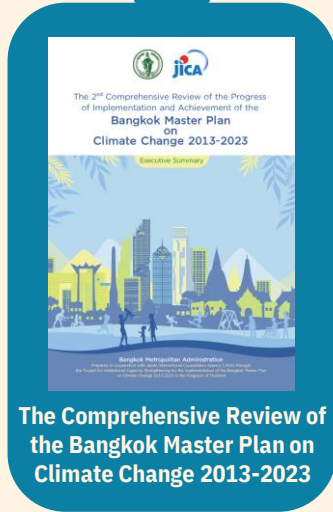
The Action Plan on Global Warming Mitigation 2007-2012

2



The Bangkok Master Plan on Climate Change 2013-2023

3



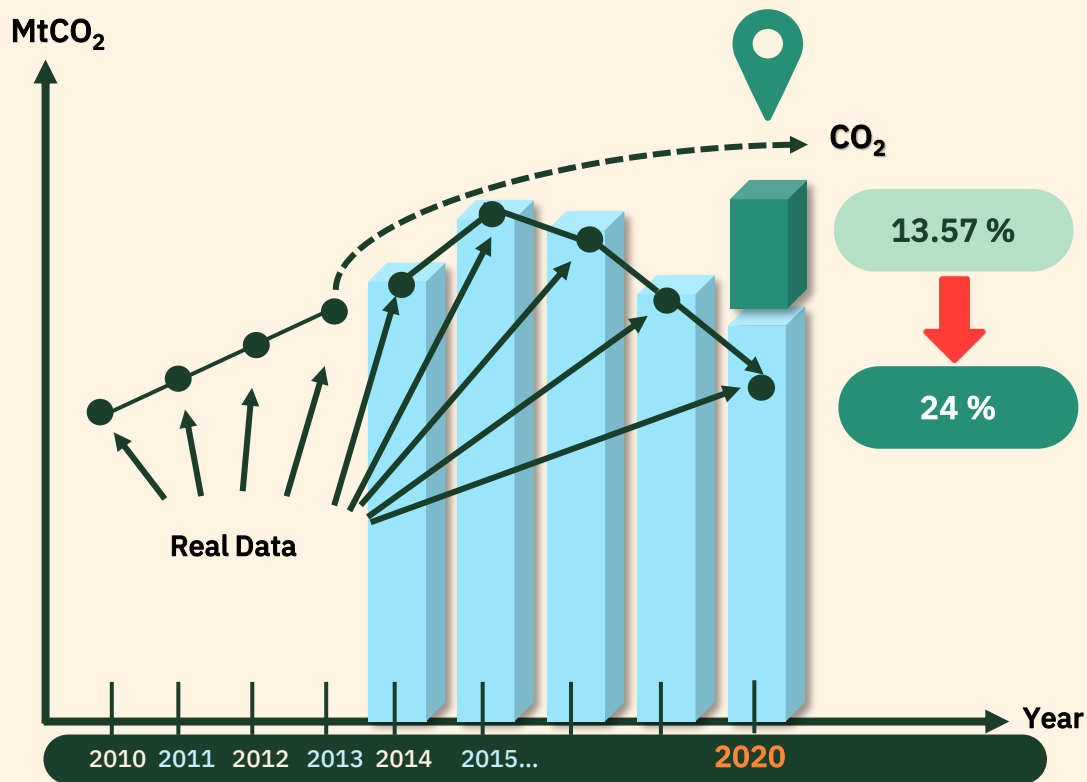
The Comprehensive Review of the Bangkok Master Plan on Climate Change 2013-2023

4



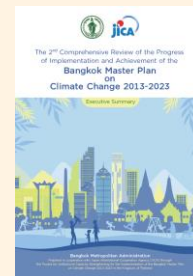
The Bangkok Master Plan on Climate Change 2021-2030

Great Achievements of 2020 mitigation target



- BAU emission (2020) = 53.74 MtCO₂e
- GHG emission target (2020) = 46.44 MtCO₂e
- GHG reduction = 7.3 MtCO₂e or 13.57% reduction from BAU

- Actual GHG emission (2020) = 40.75 MtCO₂e
- GHG reduction = 12.99 MtCO₂e or 24% reduction from BAU





Policies and GHG Reduction Target

International

NAMAs

NDC

Paris Agreement

SDGs



National Strategy : 2018-2037

The Thirteen National Economic and Social Development Plan : 2023-2027

Thailand's National Determined Contribution Roadmap on Mitigation: 2021-2030

Thailand

Thailand's Climate Change Master Plan : 2015-2050

Thailand's National Adaptation Plan

Carbon Neutrality

Net Zero GHG Emission



Year

2013

2020

2021

2030

2050

2065

Bangkok

Bangkok Master Plan on Climate Change 2013 – 2023
GHG Reduction Target 13.57%

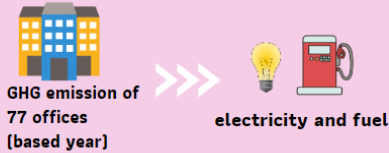
Bangkok Master Plan on Climate Change 2021 – 2030
GHG Reduction Target 19%

Vision
Net Zero GHG Emission



BMA Net Zero

C (Calculation)



Averaged GHG emission 2018-2021
0.23 MtCO₂e

GHG emissions from waste and wastewater are not included.

R (Reduce)



Measure/ Priority Projects

Year 2023

- Develop Energy Framework under the Project of City to City
- BMA2 Net Zero in 2026
- Reduce energy consumption
- Green Office Project

Year 2024

- Energy Framework Implementation
- BMA2 Net Zero in 2026
- Reduce energy consumption
- Green Office Project
- Install Solar cell
- Promoting EV Cars

O (Offset)



Carbon Credit Donation from Private Sector

Database of the perennial tree in Bangkok which will start in 2023 as based year

1 Million Tree Planting

Currently, we plant total more than 500,000 trees and more than 1.6 million trees has been reserved
(updated: August 8, 2023)

BMA Net Zero in 2030
City to City Project

BMA Carbon Neutrality in 2026
Carbon Credit Project
(In progress for BMA consideration to Implement Project)

BMA's Cooperation with National Government



❑ Steering Committee

National Governments such as Ministry of Natural Resources and Environment, Ministry of Energy, Ministry of Foreign Affairs, TGO etc. are member of Steering Committee of Bangkok Master Plan on Climate Change 2021 – 2030

❑ Thai-German Cooperation on Energy Mobility and Climate (TGC-EMC) in 2023-2027

TGC-EMC is the joint project between Germany and Thailand to contribute to climate protection and sustainable development and supporting measures for mitigation of GHG emissions. This project consists of 4 organizations including BMA

❑ Thailand Climate Action Conference (TCAC)

BMA joined this event in August 2022 to share experiences and implementation on climate change issue and pursuing efforts to achieve net-zero emissions.

❑ Climate Change Project in 2020-2021

ONEP and GIZ conducted Climate Change Project by supporting local government including BMA on technical and capacity building to develop local climate change action plan.

City to City Project



Acceleration of Climate Change Master Plan

- ✓ Development of Bangkok Energy Action Plan
- ✓ Development of Bangkok Waste and Wastewater Action Plan
- ✓ BMA Net Zero Plan



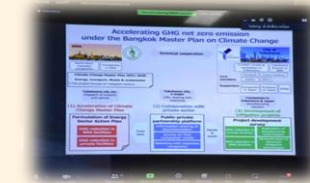
Bangkok-Yokohama Public-Private Partnership Platform

- ✓ Workshop
- ✓ Business matching



Development of mitigation projects

- ✓ Projects Development with private companies
- ✓ Consideration of GHG reduction measures in BMA facilities
- ✓ Consideration of demonstration of advanced technologies



Bangkok-Yokohama Public-Private Partnership Engagement

The Bangkok Climate and Energy Action Conference for Net Zero Greenhouse Gas Emission



The 2nd Workshop on Net Zero Emissions Business Opportunity under Bangkok-Yokohama City-to-City Program





Thanks!



Contact us: Climate Change Strategies Sub-Division,
Air Quality and Noise Management Division, Environment Department, BMA



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