



# UNFCCC COP25 MADRID, SPAIN

## PREPARATION FOR CLIMATE CHANGE RESPONSES IN HO CHI MINH CITY

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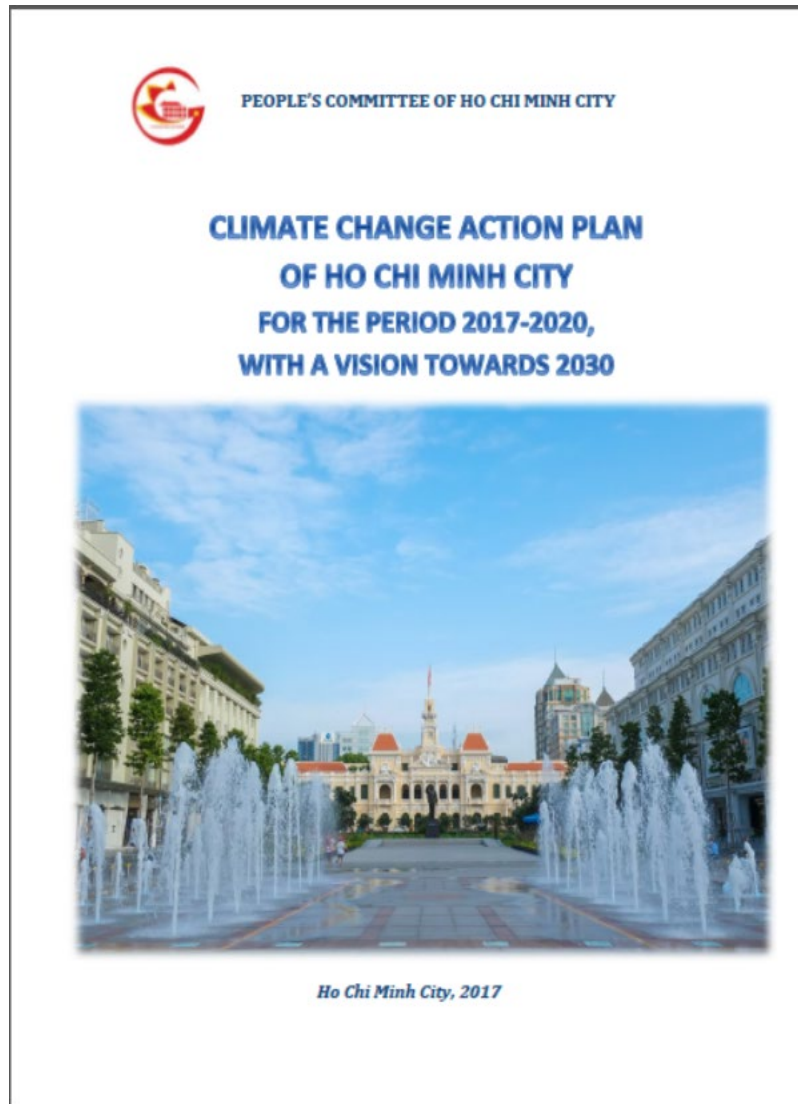
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# **1. Progress updates of climate change mitigation implementation and city-level GHG inventory**



# Background of Ho Chi Minh City Climate Change Action Plan



- ▶ Request for updating the Climate Change Action Plan in accordance to the Decision on approval of Target Program on climate change response and green growth in the 2016-2020 period
- ▶ Guideline on updating the Climate Change Action Plan issued together with the Decision No.990/BTNMT-KTTVBĐKH dated 24/3/2014



# Overview of current Climate Change Action Plan until 2020

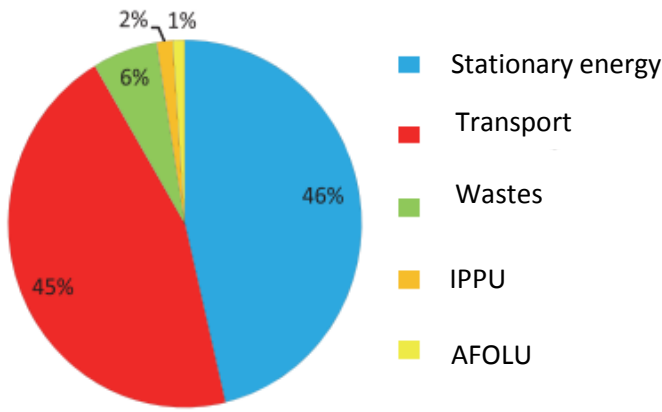
## Principles

- *Developed with the support of Osaka City*
- Win-win solutions
- Development of the legal system on climate change
- Implementation of specific projects in 10 priority fields to mitigate climate change:
  - ① Urban Planning
  - ② Energy
  - ③ Transportation
  - ④ Industry
  - ⑤ Water Management
  - ⑥ Waste Management
  - ⑦ Construction
  - ⑧ Healthcare
  - ⑨ Agriculture and Food security
  - ⑩ Tourism, Culture and public awareness

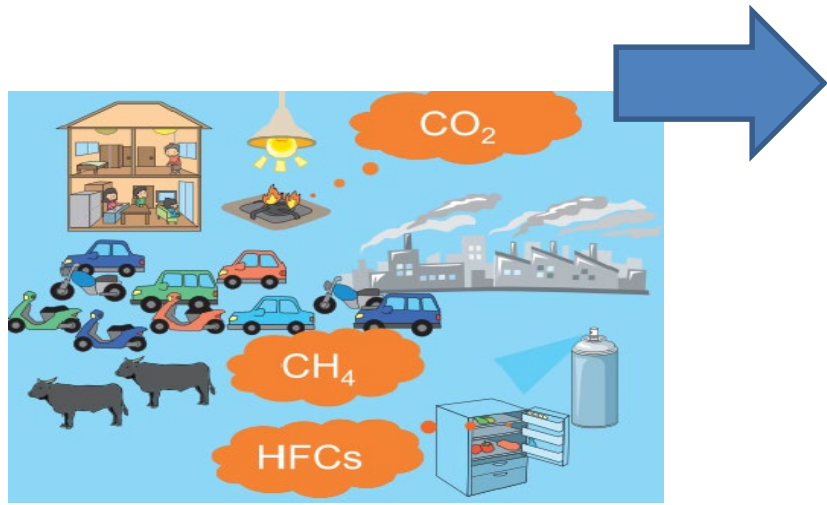




# Status of GHG emissions (City-level GHG Inventory)



## 2013 GHG Inventory results



GHG Inventory manual

## 2016 GHG Inventory in HCM CITY

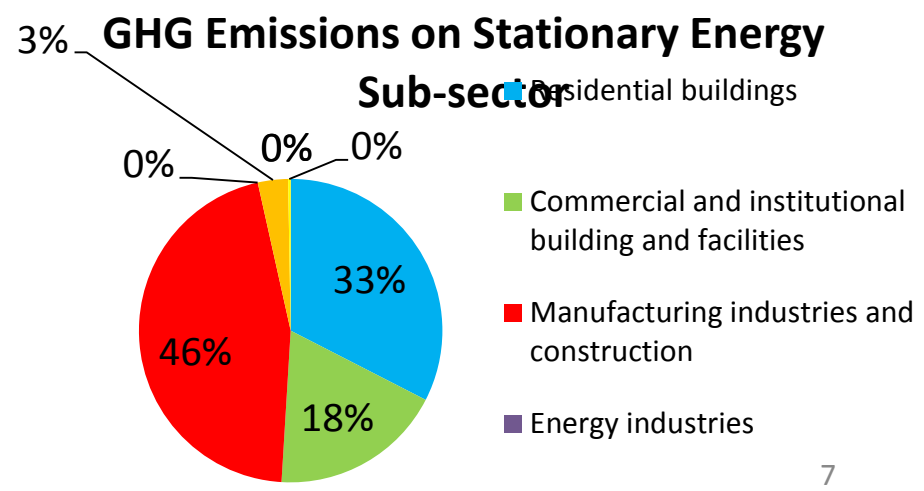
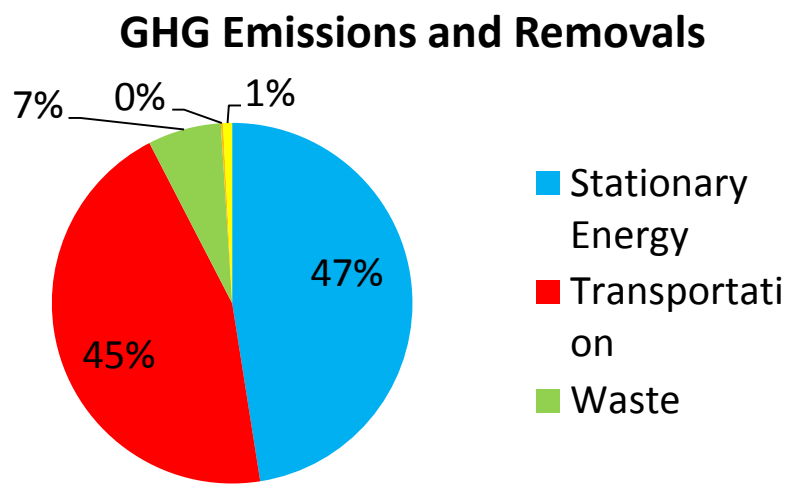
Apply the methodology in the city-level GHG inventory manual (by JICA SPI-NAMA project)

- Data collection from various authorities and additional surveys for supplementary data
- Estimation of GHG emission in 05 sectors and subsectors
- Recommendations and assessment of GHG emission reduction potentials in selected sectors



# Progress of City-level GHG Inventory in 2016 (GPC Compliant)

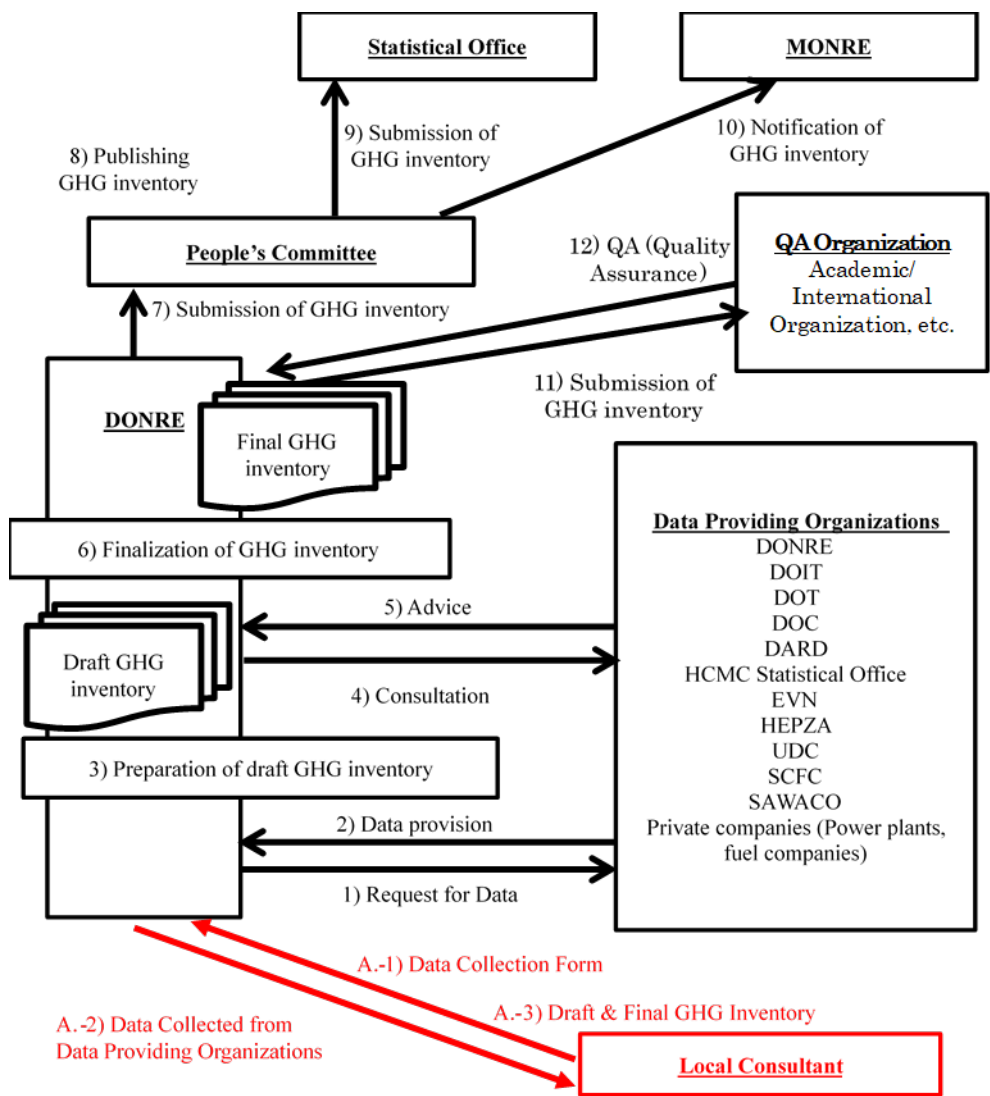
GHG Emissions and Removals GHG Emissions Sources (By Sector and Sub-sector)	Total GHG (metric ton CO2e/year) in 2016			
	Total	Scope 1	Scope 2	Scope 3
Stationary Energy	25,377,181	5,952,755	18,648,642	775,784
Transportation	23,983,566	20,009,914	0	3,973,652
Waste	3,513,889	3,513,889		
IPPU	108,152	108,152		
AFOLU	430,987	430,987		
	<b>53,413,775</b>	<b>30,015,697</b>	<b>18,648,642</b>	<b>4,749,436</b>





# Institutional arrangement for City-level GHG Inventory

DONRE	Single agency responsible for preparing GHG inventory
Data Providing Organizations	Data provision Check of providing data
Local Consultant	Performs the actual work of GHG inventory compilation
JICA	Support for HCMC's Activity





## **2. Next CCAP update for the period of 2021-2030, with vision to 2050**



# UPDATING THE NEXT CCAP FOR 2021-2030, VISION TO 2050

Updated scientific grounds:

- IPCC's 5<sup>th</sup> report
- The CC Sea level rise scenario of 2016

In response to the current and forthcoming central orders (Decreases Circulars)



Changes in the hydro-meteorological data in HCMC

In response to the sustainable development requirement of the city:

- to reduce CC related risks
- To tap on opportunities from Climate Change

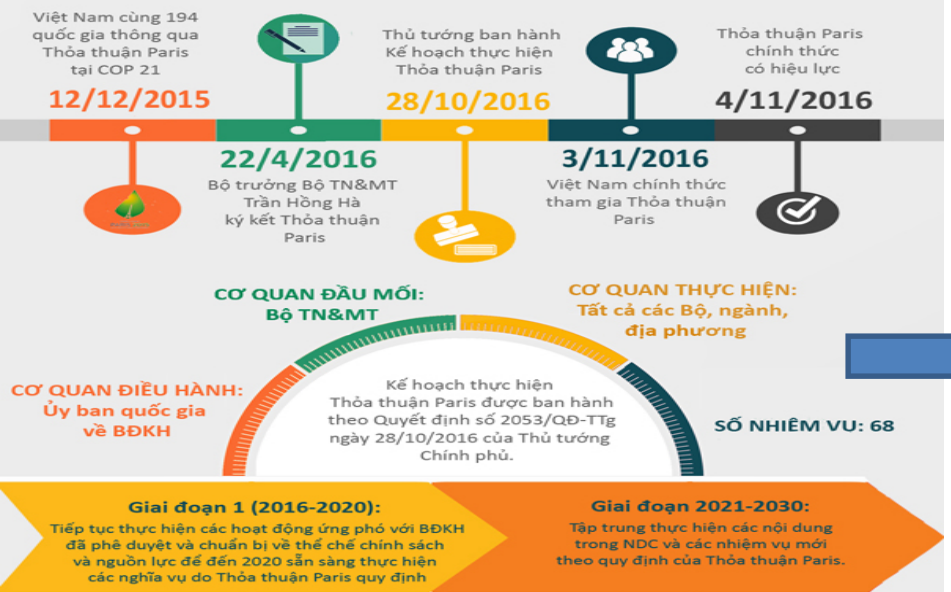
In line with common trend of major cities in the world

- Meeting international commitments entered into by the country and the City



# UPDATING THE NEXT CCAP FOR 2021-2030, VISION TO 2050

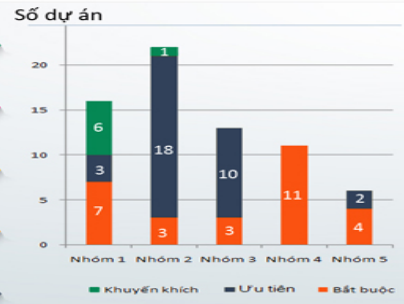
## VIỆT NAM THỰC HIỆN THỎA THUẬN PARIS



## Planning for City-level Paris Agreement implementation on climate change

- Guidelines in Letter Ref.4126/BTNMT-BDKH dated on August 11, 2017 by MONRE;
- Elaborate duties for HCMC in 05 groups of duties listed in the Decision Ref. No. 2053/QĐ-TTg
- Contribution to the National GHG emission reduction targets for 2021-2030

- 1 Giảm nhẹ phát thải khí nhà kính
- 2 Thích ứng với BĐKH
- 3 Chuẩn bị nguồn lực
- 4 Thiết lập hệ thống công khai, minh bạch (MRV)
- 5 Xây dựng, hoàn thiện thể chế chính sách



5 NHÓM NHIỆM VỤ, 68 DỰ ÁN VÀ 3 MỨC ĐỘ ƯU TIÊN THỰC HIỆN



## UPDATING THE NEXT CCAP

### Key issues to be resolved

- ▶ To determine the baseline GHG emission or GHG emission scenarios for the city;
- ▶ To assess quantitative GHG emission reduction target, which is suitable to the city's current context and international commitments that Viet Nam entered into;
- ▶ To prioritize CC mitigation and adaptation actions so as to strengthen the feasibility of the CCAP.



# JICA SPI-NAMA Support to Ho Chi Minh City

Major Activities	Contents	Expected Outputs
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**Activity 1.**  
**Estimating future GHG emission trend (BAU) and emission reduction potential**

- Collection of relevant data for analysis and background information such as plans, policies and regulations( including Inventory)
- Scenario analysis by AIM model.
- Technical input and capacity development activities for setting GHG emission reduction targets

Technical analysis report on GHG emission scenarios (BAU and Mitigation Potentials)

## Low Carbon Scenarios for Ho Chi Minh City, Vietnam 2030



Currently, Vietnamese Government regards the challenge of GHG emission reduction as a national target. In the National Target Program to respond to Climate Change (Decision 168/2012/QĐ-TTg, 2012), "National Energy Change Strategy" (Decision 12/2012/QĐ-TTg, 2012), "National Urban Green Strategy" (Decision 18/2012/QĐ-TTg, 2012), and "Plan to Merge SMEs, Livestock and Carbon Trading Activities to the Household" (Decision 17/2012/QĐ-TTg, 2012).

Under the national context, Ho Chi Minh City (HCMC) issued the "Climate Change Action Plan for 2017" (Decision 16/2017/QĐ-UBND, 2017). Moreover, HCMC is developing a project for "Climate Change Action Plan (CCAP) in the 2021-2030 period, which is a major research project of HCMC (Decision 14/2017/QĐ-TTg, 2017). This Action Plan is necessary to be developed to integrate with the national and regional master plans such as transportation, industry, power, agriculture, etc. as well as urban and water management.

This brochure is one of the outputs of the research collaboration between the research team (IGES and others) and the city of Natural Resources and Environment (NRE) with Department of Science and Technology (DST) in HCMC. Moreover, the report is intended for researchers and policy-makers who are interested in developing the CCAP and are expected to be used for building green growth for HCMC.

Based on the request in "Action Plan for Sustainable Development of HCMC in 2030" with vision to 2050" (Decision 16/2017/QĐ-TTg, 2017) and "Action Plan for Transportation Development of HCMC in 2030" (Decision 14/2017/QĐ-TTg, 2017).

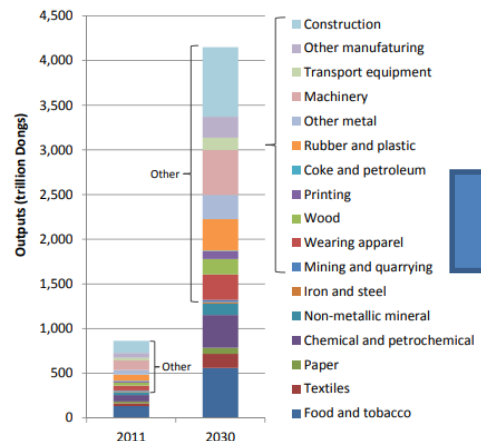
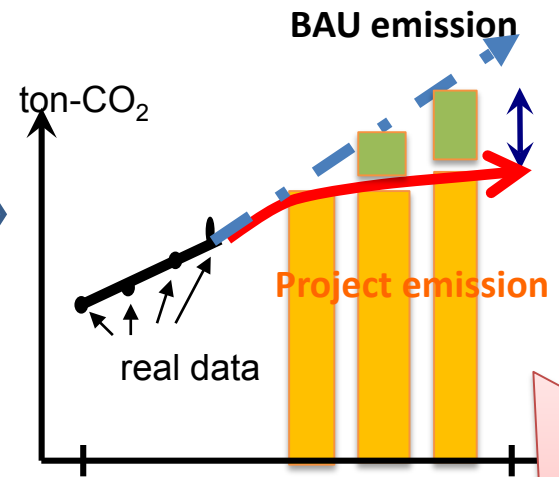


Figure 1: Outputs by industrial sub-sectors



Estimating reduction potential

Source: NIES2015

## Estimation of GHG emission in future with AIM Model

Provides scientific evidence for the next HCMC CCAP(2021-2030) with mitigation targets and actions!





**Thank you for your attention**

