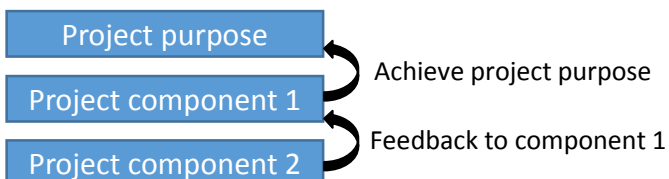




### Introduction

According to the National Strategy on Climate Change issued by the Prime Minister of Vietnam in December 2011, Nationally Appropriate Mitigation Actions (NAMAs) will be planned by the Ministry of Natural Resources and Environment (MONRE). In this context, a technical support project for capacity enhancement was requested to JICA. The “Project to Support the Planning and Implementation of NAMAs in a MRV Manner” (SPI-NAMA) started in January 2015. The purpose of SPI-NAMA is to enhance the capacity of the Government of Vietnam concerning the planning and implementing of NAMAs. To attain this goal, SPI-NAMA has two project components.



#### Project Component 1

The first project component aims to enhance the capacity of MONRE to facilitate the process of development and implementation of NAMAs. It is implemented by MONRE and the JICA Long-Term Experts.

#### Project Component 2

The second component aims to enhance the capacity of cities in Vietnam to quantify greenhouse gas (GHG) emissions and reductions, taking Ho Chi Minh City (HCMC) as a model city.



This component is implemented by the Climate Change Bureau (CCB), Department of Natural Resources and Environment (DONRE) of HCMC with the support of the JICA Short-Term Experts. The profile of Component 2 is shown below.

Main activities	Piloting MRV of NAMAs Preparing GHG inventory
Executive agency	DONRE-CCB of HCMC
Japanese side input	Seven Short-Term Experts
Project duration	24 months (2015-2017)
Project site	HCMC

### Main activities

#### MRV of NAMAs

Ongoing or planned NAMAs to pilot MRV in HCMC are selected in three focused sectors. They are energy, transport and waste sectors. The baseline GHG emission at the project inception, and anticipated and actual emission reduction of selected NAMAs are quantified. Utilizing the outputs of the activities in HCMC, an MRV manual for HCMC and MRV guidelines for local governments are developed.

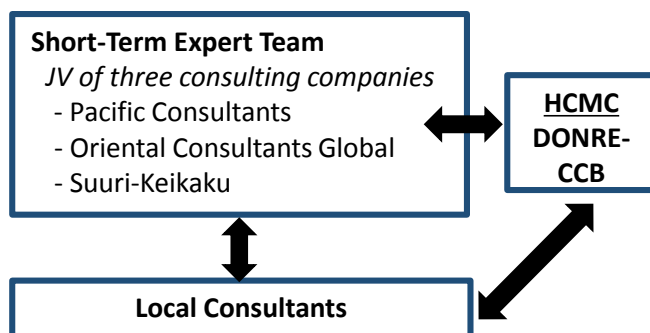
#### GHG Inventory

The activity data of 2013, 2014, and 2015 are collected. GHG inventory of 2013 and 2014 are developed following the Global Protocol for Community-Scale GHG Emission Inventories (GPC). The GHG inventory of 2013 is also prepared for ten sectors in the Climate Change Action Plan (CCAP) of HCMC.

Year	2013	2014	2015
Inventory format (Excel file)	Same format of excel file		
Data request	Yes	Yes	Yes
Compilation of Inventory (Based on GPC)	Yes	Yes	Optional
Compilation of Inventory (Based on 10 sectors)	Yes	Optional	Optional

### Implementation structure

The seven-member JICA Short-Term Expert Team composed of three consulting firms assists the implementation of Component 2. The local consultant team represented by NIRAS-RCEE is also engaged to assist project implementation.



CCB is the main counterpart to the JICA Short-Term Expert Team. CCB was established in DONRE in 2012 to execute practical work related to climate change policy following the decisions of the Climate Change Steering Board of HCMC.

## Progress to date

During the January to March 2017 period, the Short-Term Experts made three visits to Vietnam. The overview of the progress to date are followings:

- ✓ Preparation of GHG inventory was proceeded.
- ✓ Monitoring status of MRV pilot projects were reviewed and GHG emission reductions were calculated.
- ✓ First consultation meeting on GHG Inventory Preparation Manual and MRV Manual was held.
- ✓ Institutionalization of GHG inventory and MRV was discussed with MONRE and CCB.

The activities in the visits to Vietnam during this term were mainly on preparation for GHG inventory, review of the monitoring status of MRV pilot projects, and development of manuals. The discussions were held on the second training in Japan and the second general training on the climate change mitigation in HCMC as well. The detail of activities on MRV and GHG inventory preparation is shown in the right boxes.

## Consultation meeting on GHG Inventory Preparation Manual and MRV Manual

The consultation meeting was held on 1 March 2017 in HCMC to obtain inputs from relevant organizations on the manuals. The session for MRV Manual was held in the morning and the session for GHG Inventory Preparation Manual in the afternoon.

Around 40 to 50 people from departments of HCMC, districts, companies, and universities participated in the sessions.

Around 30 questions and comments were raised in the morning session and around 10 in the afternoon.

Most of the questions and comments raised were constructive, and it seemed that the stakeholders had positive attitudes to GHG inventory preparation and MRV implementation. MONRE officials were also present at the meeting and were observed to responding to some questions

and comments from the participants. The meeting was so meaningful for improving the manuals.



## MRV of NAMAs

Monitoring of the projects to pilot MRV in energy, transport, and waste sector is ongoing. In the meetings with the relevant organizations, the monitoring status was reviewed, and the way forward for monitoring as well as methods for reporting were discussed. Emission reductions were calculated using the monitoring data and the results were reviewed with the relevant organizations.

The first consultation workshop on the MRV Manual was held. The structure, procedure, and annual schedule of the MRV in HCMC were discussed with the relevant organizations. More than 30 questions and comments were raised. Those included comments on need for capacity building on MRV, necessity of budget for MRV implementation, and importance of the consistency with the national MRV institutions. Answers to the questions and comments raised in the meeting were prepared after the workshop in consultation with CCB.

## Preparing GHG inventory

On the preparation of the 2013 GHG inventory based on the GPC, calculation of GHG emissions was completed in the following sectors: Stationary Energy, Transport, Agriculture, Waste, and IPPU (Industrial Process and Production Use). As for the Land Use and Land Use Change sector, method to calculate GHG emissions is still under consideration.

The first consultation meeting on the GHG Inventory Preparation Manual was held. Schedule and roles of organizations on GHG inventory preparation were discussed with the relevant organizations. Around 10 questions and comments were raised. There were no objections on the manual. Those included suggestions on methods for collecting data, question on how to avoid double counting, and relationship between MRV and GHG inventory. Answers to the questions and comments raised in the meeting were prepared after the meeting in consultation with CCB.

The training on GHG inventory preparation, which will be held from April 2017 onwards targeting HCMC officials, was planned in consultation with CCB. The GHG Inventory Preparation Manual will be used in this training.