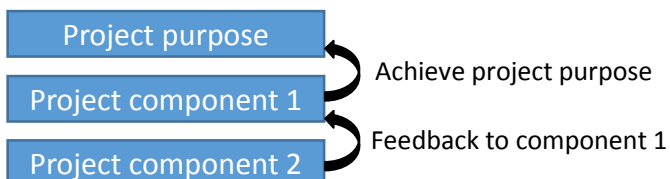




### Introduction

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.

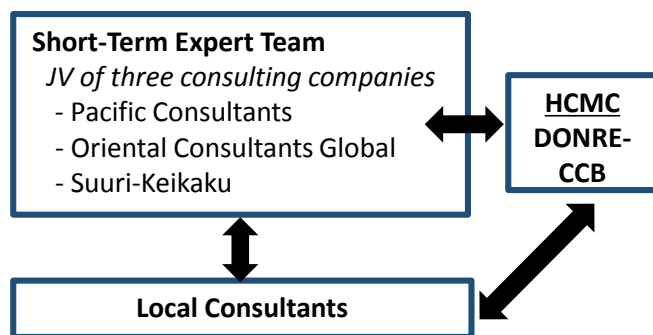
#### GHG Inventory

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 October to December 2016 period, the Short-Term Experts made two visits to Vietnam.

### MRV of NAMAs

Discussions on implementation structure and monitoring data of projects to pilot MRV with relevant organizations were held in October and November 2016. For “Project to introduce photovoltaic panels” in the energy sector, data of seven public buildings, one apartment, and more than 30 houses will be provided by Energy Conservation Center which is the implementation body of this project. For the transport sector, monitoring of “Introduction of CNG bus for public bus fleet” is conducted by Saigon Bus. The Short-Term Experts checked the monitoring data and agreed with Saigon Bus to start reporting after March 2017 in accordance with MRV structure. For the waste sector, the Short-Term Experts surveyed ten farms which are targets of “Collection of manure and biogas capture”, and agreed with HCMC Department of Agriculture and Rural Development, which is the execution body, on implementation structure to pilot MRV of this project.



Survey of farms

### Preparing GHG inventory

Because of the letter of HCMC PC issued in September 2016 data started to be provided from relevant organizations, and data collection activities proceeded. The data collection still continues for missing data.

GHG inventory compilation based on GPC started and calculation of GHG emission from electricity, gasoline, diesel, heavy oil, kerosene, and jet fuel has been almost finished. Data provision was requested to some fuel suppliers in order to collect missing data of some fuels. GHG emission calculation from agriculture sector has almost been finished.

Discussion was held with CCB on GHG inventory preparation process in HCMC and roles of relevant organizations for inventory preparation, and a system was drafted which will enable HCMC to continuously prepare inventory into the future. GHG inventory preparation manual including this draft system will be discussed with relevant organizations in the consultation workshop.

## Meeting with C40

CCB and the Short-Term Experts held a telephone conference with C40 (C40 Cities Climate Leadership Group) in November 2016. Cooperation with this project especially on GHG inventory was proposed by C40 in the conference. Discussion was held on C40’s review of GHG inventory to be prepared in this project, utilization of the achievement of this project in C40 member cities, and continuous support to HCMC after this project. Continuous information sharing was agreed to achieve actual cooperation.

## General Training on Climate Change Mitigation for HCMC Officials

The General Training on Climate Change Mitigation for HCMC Officials was held in 25, 28, 29, and 30 November 2016 in HCMC. Around ninety persons participated in the training from departments of HCMC, Districts, public companies, and universities.



Lectures on climate change mitigation, NAMA, MRV, and GHG inventory were held in the first and second day of the training (Part A).



On the first day, some lectures were held by vice chairman of the Vietnam Panel on Climate Change and director of Division of GHG Emission Monitoring and Low-Carbon Economy of MONRE.

In the third and fourth day (Part B), lectures were held on monitoring method of mitigation measures and calculation method of GHG emission reductions.

In the second half of the Part B, as a workshop, participants planned and presented mitigation measures in HCMC and its MRV structure.



Many questions and comments were raised in every lecture and workshop, and very positive attitude to the training was shown by the participants.

