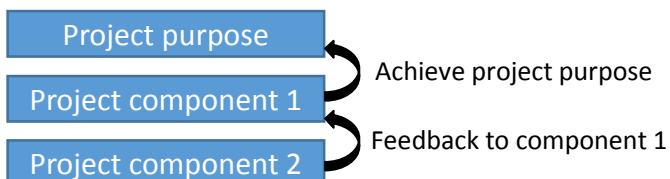




Introduction

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.

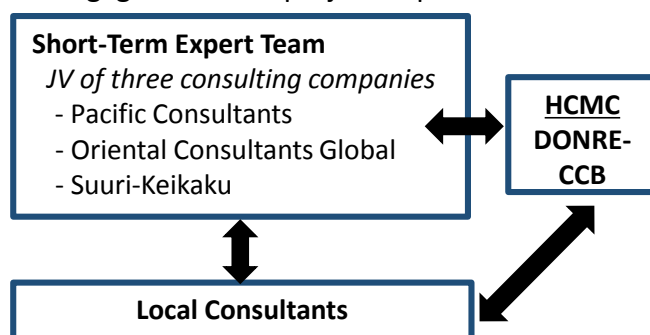
GHG Inventory

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 July to September 2016 period, the Short-Term Experts made three visits to Vietnam. The main progresses of NAMA/MRV and GHG inventory from the last report in June are followings. The details are shown in the right box.

- ✓ Candidate projects to pilot MRV were selected and discussions on the MRV structure for each project started.
- ✓ Data collection formats for GHG inventory preparation were developed and dispatched to relevant organizations with the letter of HCMC PC.

Other main news is reported in the followings.

Direction issued by HCMC PC

The official letter of HCMC PC, which is the highest decision-making body in HCMC, directing relevant organizations to cooperate with the project was issued on 19 September 2016.

The main points of the direction are as follows:

1. Assign DONRE as the focal point to prepare GHG inventory and direct relevant organization to submit data for the inventory preparation.
2. Assign DONRE as the focal point to pilot MRV of NAMAs
3. Approve the holding of the training on climate change mitigation targeting HCMC officials by the project

With this direction, the project is now officially recognized by all relevant organizations and the position of DONRE in the project has become clear. This will enable the communication between CCB, Short-Term Experts and relevant organizations to be easier thereby promoting a smoother project implementation.

JICA HQ Technical Advisory Mission

A joint meeting with the JICA mission, CCB, MONRE, and Long-Term Experts was held in the end of September 2016. The progress, schedule, and challenges of the project were discussed in the meeting. It was confirmed that the achievements of the project in HCMC will be an important input to the national policy making



regarding climate change mitigation and that the project will be carried out in close communication among stakeholders in Hanoi and HCMC.

MRV of NAMAs

Candidate projects to pilot MRV were selected in the eighth visit (July 2016) as listed in the following table.

In late September 2016, meetings were held with relevant organizations responsible for implementing the candidate projects to discuss on the baseline data and MRV methodology. In addition, study sessions on MRV and calculation of emission reductions were held to enhance the capacity of relevant organizations. A joint meeting with CCB, MONRE, and Long-Term Experts was held as well to discuss the MRV structure in HCMC. The development of the MRV manual for HCMC started and drafting is ongoing in consultation with CCB.

Project	Outline
Replacement of existing street lamp with LED	Existing street lamps in District 3 have been replaced with LED. GHG emission is reduced due to the energy saving by LED.
Project to introduce photovoltaic panels	Introduction of photovoltaic panels on houses and buildings to generate electricity is ongoing. Generated electricity is sent to the grid and replaces electricity from fossil fuels.
Introduction of CNG bus for public bus fleet	Twenty-nine CNG buses are progressively introduced by Saigon Bus. GHG emission is reduced compared to conventional diesel buses.
Bus Rapid Transport (BRT) project	Operation of the BRT Line 1 will start from 2019. GHG emission will be reduced due to modal shift, mitigation of traffic jam by smoother operation using dedicated bus lanes.
Electricity generation in Go Cat Landfill Site	Electricity is generated using the biogas collected from waste by CITENCO in the Go Cat Landfill Site.
Collection of manure and biogas capture	Bio-digesters to treat manure and capture methane is introduced by DARD. The captured methane is used as energy.

Preparing GHG inventory

The development process of data collection format for preparing GHG inventory was completed in August 2016. The process involved intensive investigation on the availability and location of data. The forms have been dispatched to twelve organizations with HCMC PC's direction to cooperate on the data collection. The number of data items for collection is around 1,200. The development of emission calculation sheets have started as well.

CCB desires to institutionalize GHG inventory so that the inventory preparation will be continued into the future even after the project completion. In response to this, the Short-Term Experts started discussion on the institutionalization and capacity development regarding GHG inventory.