



**International cooperation of MOE-J
for the promotion of low carbonization
in developing countries**

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Efforts on Transport Sector in Japan (Example)

Promotion of next generation vehicles
 The government set a goal to achieve 50 to 70% of next generation vehicles in total new car sales by 2030

(*) The next generation vehicles include hybrid vehicles, plug-in hybrid vehicles, electric powered vehicles, fuel cell powered vehicles and CNG fueled vehicles

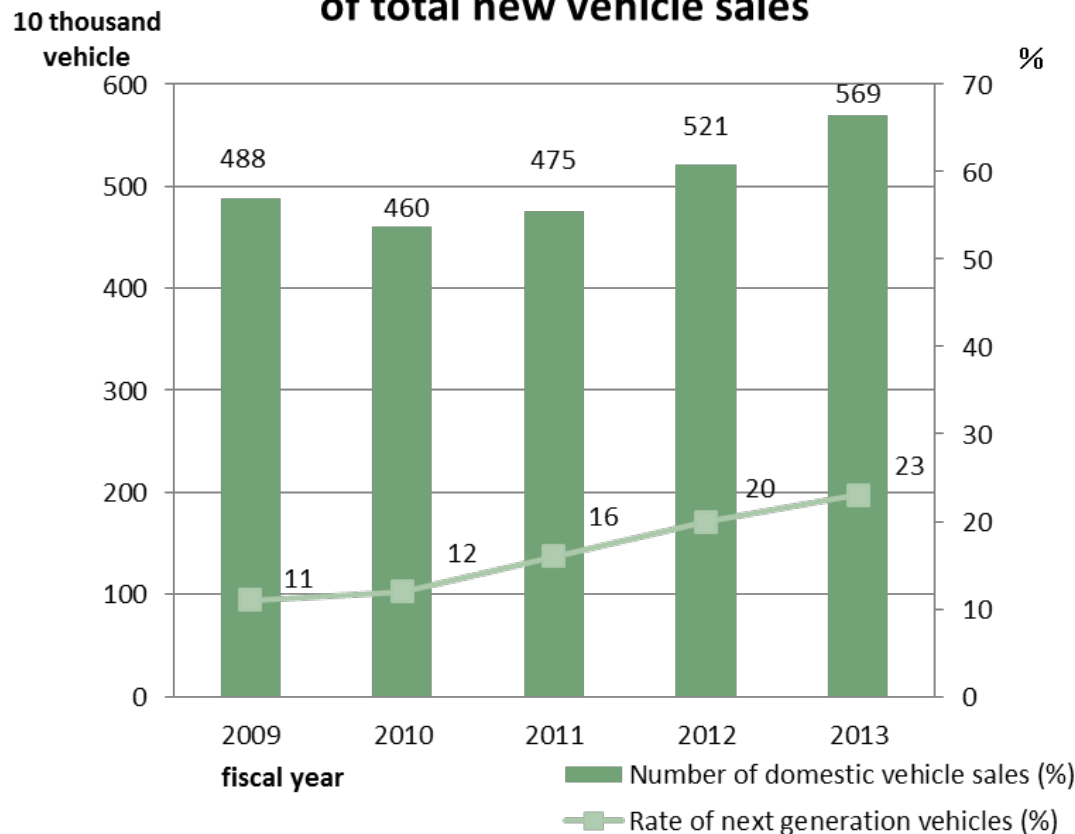


HV

EV

FCV

Rate of next generation vehicles to number of total new vehicle sales



Tax break and subsidies for acquisition

Low Carbon Technology Research and Development Program

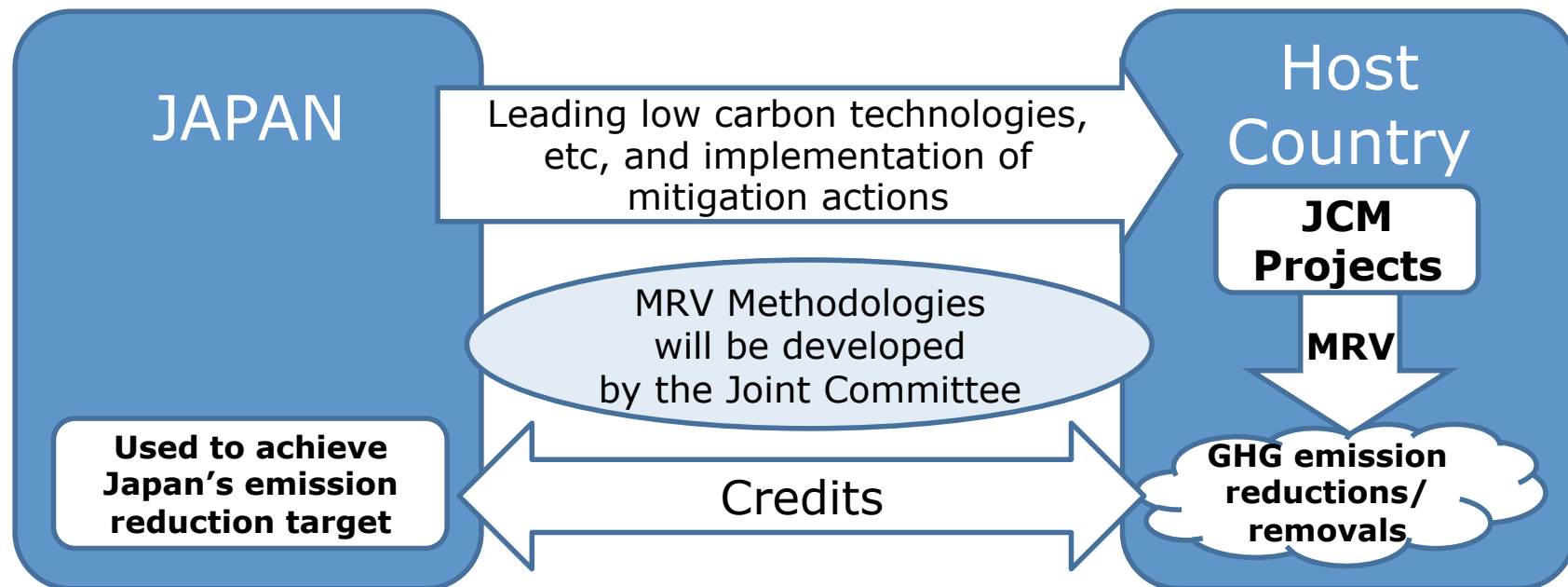
Top-runner Approach for Fuel Efficiency Regulations

Reinforcement of Emission Control Regulations

(Source of information : Japan Automobile Dealers Association ,Ministry of Economy ,Trade and Industry)

Basic Concept of the JCM

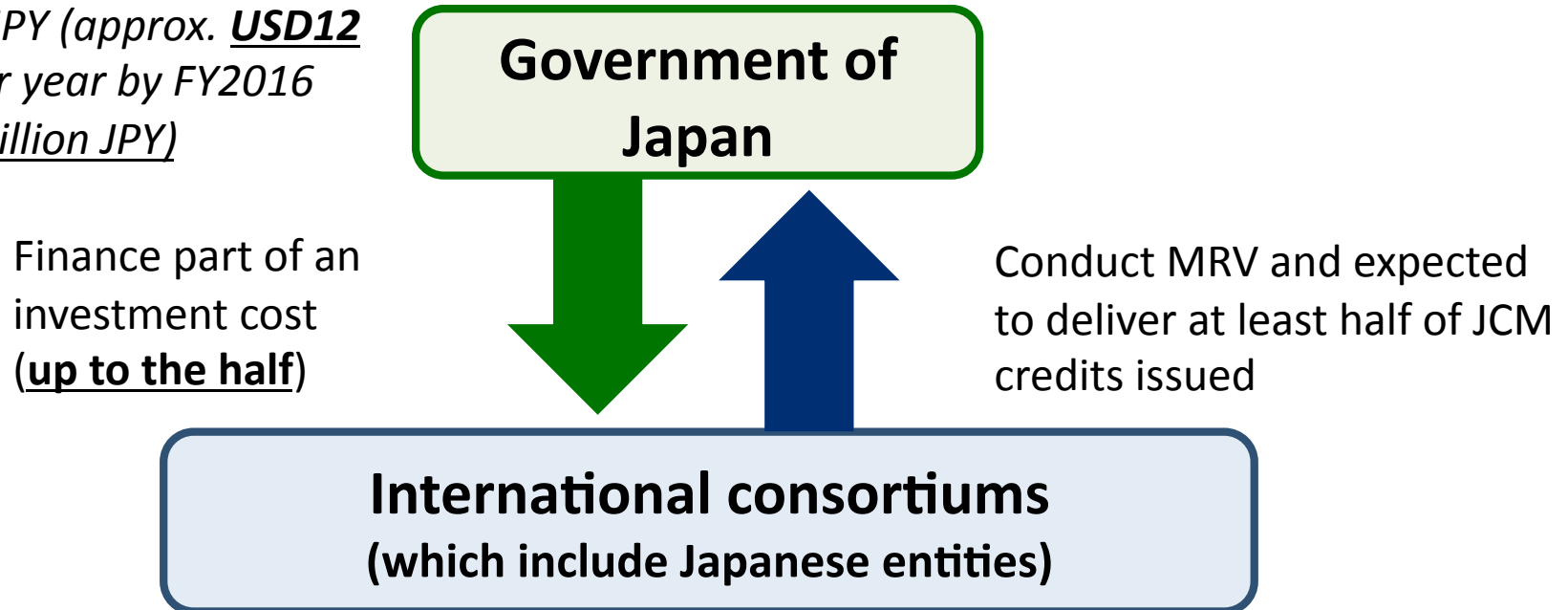
- Facilitating the spread of leading low carbon technologies, products, systems, services, and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing countries.
- Appropriately evaluating contributions to GHG emission reductions or removals from Japan in a quantitative manner, by applying measurement, reporting and verification (MRV) methodologies, and use them to achieve Japan's emission reduction target.
- Contributing to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reductions or removals, complementing the CDM.



Financing Programme for JCM Model Projects by MOE

The budget for FY 2014

*1.2 billion JPY (approx. **USD12 million**) per year by FY2016
(total 3.6 billion JPY)*



- Scope of the financing: facilities, equipment, vehicles, etc. which reduce CO₂ from fossil fuel combustion as well as construction cost for installing those facilities, etc.
- Eligible Projects : starting installation after the adoption of the financing and finishing installation within three years.

Capacity Building & Feasibility Studies for JCM by MOE

Capacity Building Programmes

Region

Asia, Africa, Latin America, and Small Island countries

Scope

Facilitating understanding on the JCM rules and guidelines, enhancing capacities for implementing MRV

Activities

Consultations, workshops, seminars, training courses and study tours, etc.

Target

Government officials, private sectors, candidate for validation & verification entities, local institutes and NGOs



Feasibility Studies

Objective

Elaborating investment plan on JCM projects, developing MRV methodologies and investigating feasibility on potential JCM projects,

Type of studies

JCM Project Planning Study (PS)

To develop a JCM Project in the next fiscal year

JCM Feasibility Study (FS)

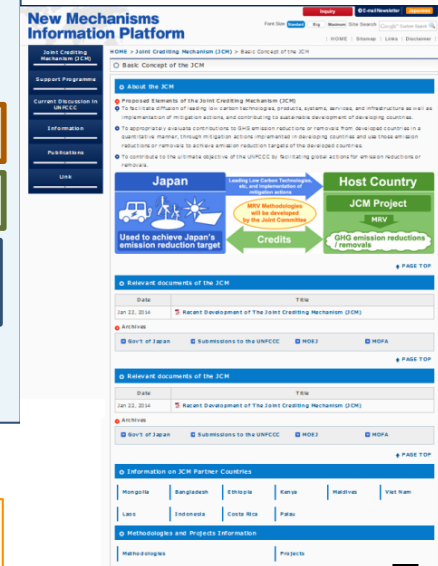
To survey feasibility of potential JCM projects

Large Scale JCM Feasibility Study

To survey feasibility of potential large scale JCM projects including city level cooperation

Reports

Available at GEC (Global Environment Centre Foundation) website <URL: <http://gec.jp>>



Outreach

New Mechanisms Information Platform website provides the latest information on the JCM <URL: <http://www.mmechanisms.org/e/index.html>>

Eco-driving by utilizing digital tachograph system

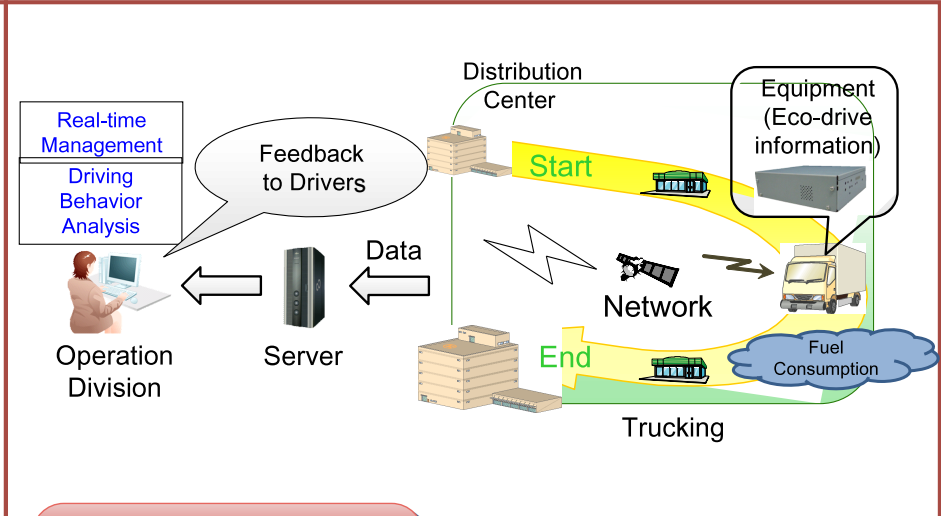
Project Owner: (Japan) NIPPON EXPRESS, (Host Country) NIPPON EXPRESS (V)

Outline of GHG Mitigation Activity

In this project, 130 trucks in use by NIPPON EXPRESS (VIETNAM) will be fitted with eco-drive improving system using digital tachographs, so that the quantity of fuel consumption, running distance and relevant data on driving behavior of drivers will be continuously analyzed with cloud network in Binh Duong and Hanoi city, Vietnam.

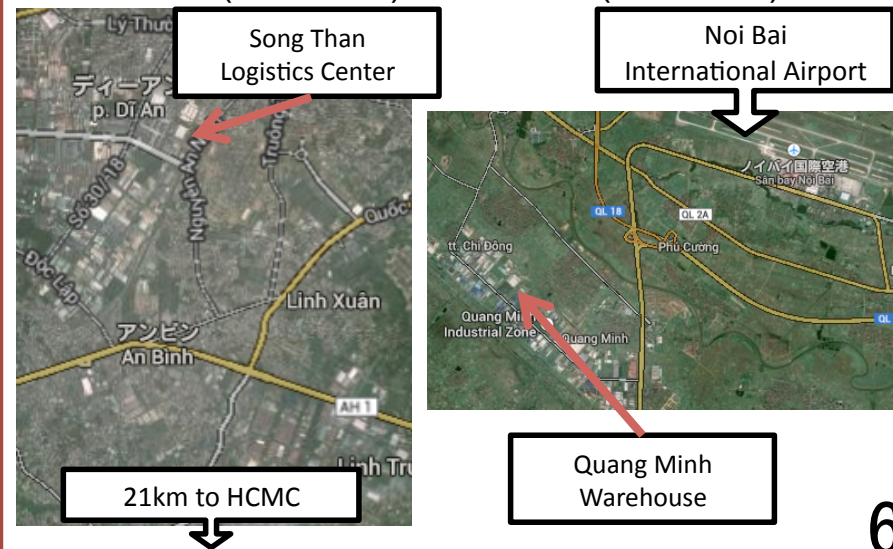
The drivers will be given advice in order to improve their driving behavior based on the analyzed data, and feedback linked to the training outcome will be provided for further improving the driving behavior.

This project contributes to realize improvement of transportation quality as well as fuel efficiency, which is directly linked with reduction in CO₂ emissions.



Sites of Project

- 1) Binh Duong Province (74 trucks)
- 2) Hanoi City (56 trucks)



Expected GHG Reductions

310tCO₂/year

$$\leftarrow (\text{Reference Fuel Consumptions} - \text{Project Fuel Consumptions}) \times \text{Emission Factor (EF)}$$

Reference Fuel Consumptions : 1,625.00kl (61.262TJ)
 Project Fuel Consumptions : 1,511.25kl (56.973TJ)
 Emission Factor : 2.73tCO₂/kl (Diesel Fuel)

Outline of GHG Mitigation Activity

The government of Costa Rica is targeting to achieve carbon neutral by 2021, and is putting high priority of de-carbonization in Transport Sector, which occupies 51% of total energy consumption in the nation. This project aims to reduce GHG emissions by promoting Electric Vehicles (100 units expected) in taxi fleet together with relevant charging infrastructure.



Normal
Charger



Quick Charger

Expected GHG Reductions

580 tCO₂/year

- Reference CO₂ emissions: 580 tCO₂/year
(Amount of 100 units)
Annual Driving Distance per Taxi in Costa Rica :
81,000 km/year
- Project CO₂ emissions: 0 tCO₂/year

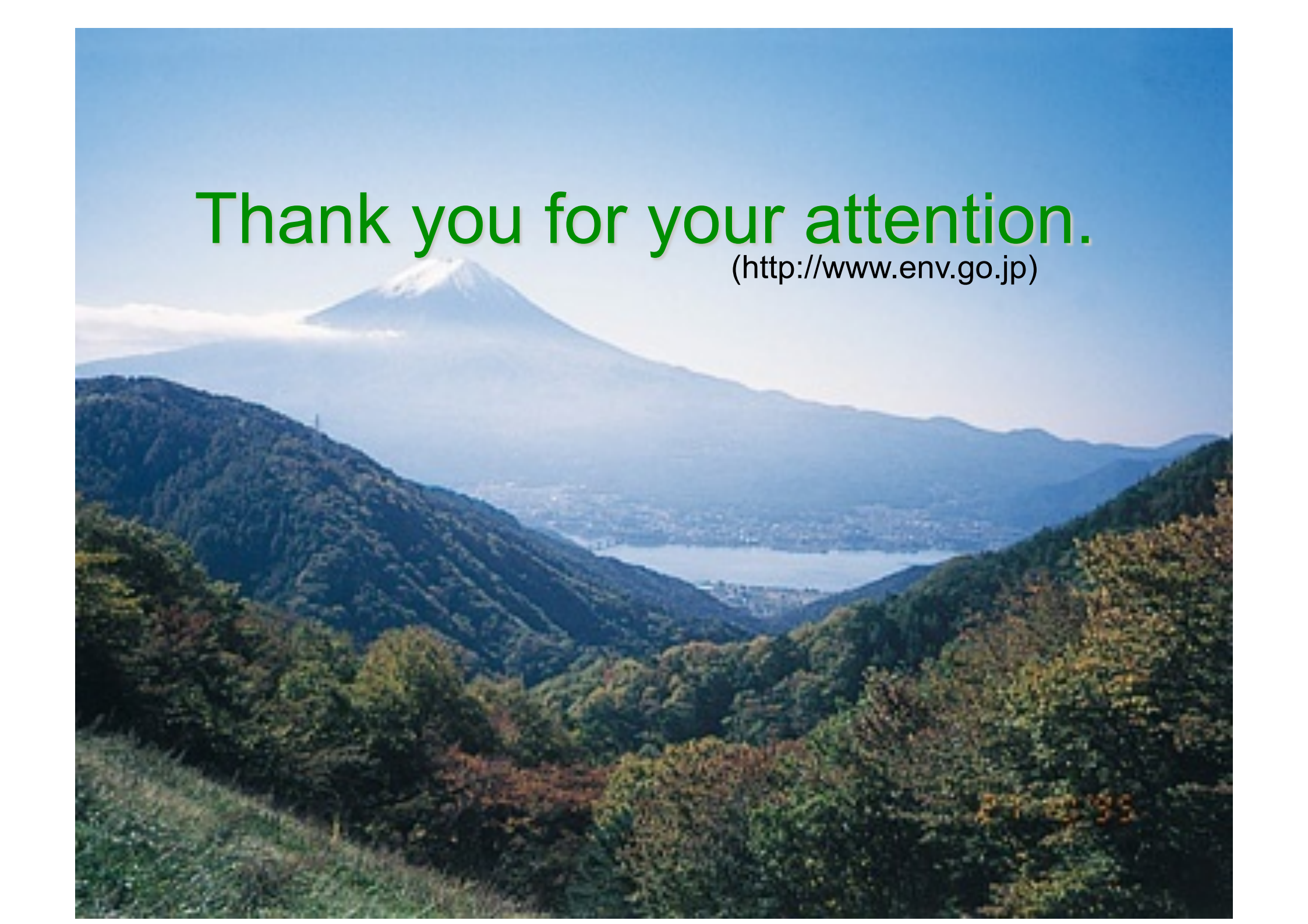
→ Reference emissions was calculated using the data in Japan with Nissan LEAF.

Site of JCM Study



Project site includes San Jose (Capital and Business Area) and Liberia (Tourist Base)

→ Detail site to be studied



Thank you for your attention.

(<http://www.env.go.jp>)