Ho Chi Minh City - Osaka City Cooperation Project for Developing a Low Carbon City

Osaka City

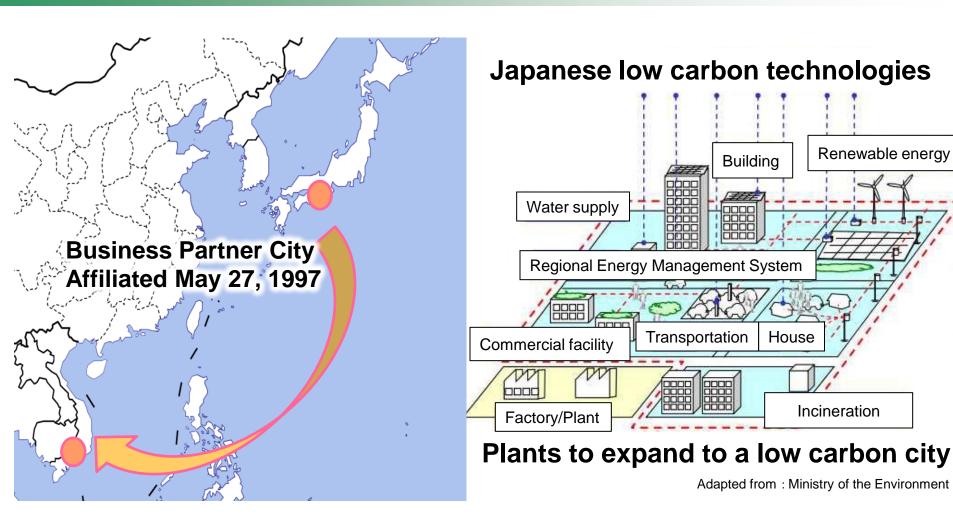


The 8th Asia 3R Conference for Asian Local Governments

Osaka City Government



Ho Chi Minh City-Osaka City Cooperation Project for The Development of a Low Carbon City



Based on Osaka City-Ho Chi Minh City Cooperation

Osaka City provides expertise and offers a support package that includes environmental technologies and administration.



Ho Chi Minh City -Osaka City Cooperation Project for Developing a Low Carbon City

Ho Chi Minh City

- Viet Nam's largest city in terms of both population and economic scale.
 Concern about the increase in GHG emissions and environmental impacts resulting from rapid urbanization and economic growth.

International Symposium



Support from Ministry of the Environment, Government of Japan

- Signatory to the Joint Crediting Mechanism (JCM) between Japan and Viet Nam (July 2013)
- Selection as site or feasibility study for the development of JCM largescale project (2013-)

Support from Osaka City

Conclusion of the MoU between Ho Chi Minh City and Osaka City on Developing Low Carbon City (Oct 2013)

Supporting the development for a low carbon city in Ho Chi Minh City Based on the MoU



MOU on Development of a Low Carbon City between Ho Chi Minh City and Osaka City

Signed by Osaka City Mayor and Chairman of Ho Chi Min City People's Committee on October 22, 2013



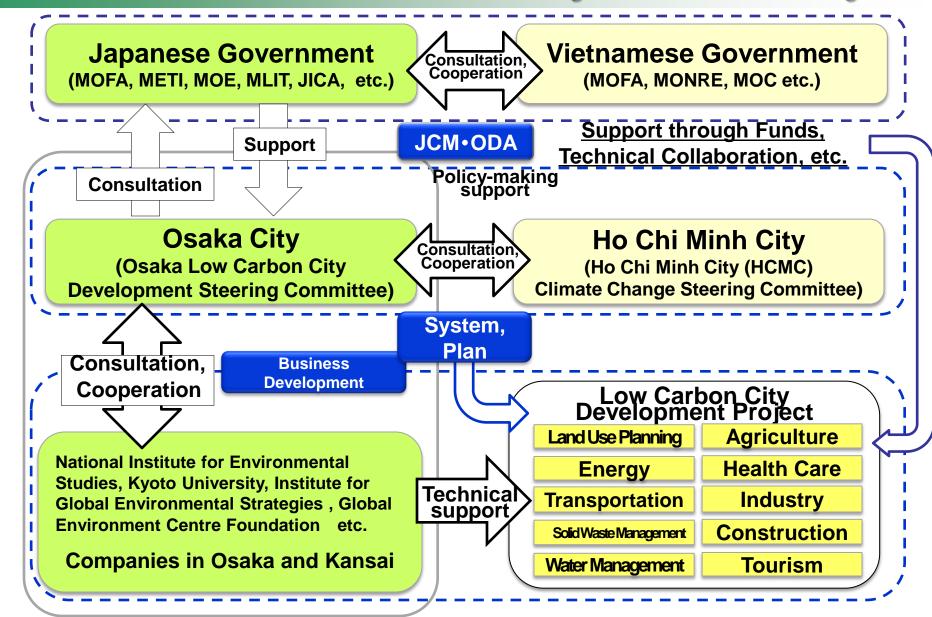




- > The MOU agreed to do the followings until 2015:
 - 1. Cooperation on the creation of a Climate Change Action Plan
 - 2. The implementation of a yearly policy dialogue between Mayors
 - 3. The implementation of projects through public and private cooperation



Cooperative Framework between Ho Chi Minh City and Osaka city





Field Survey







Introduction of rainwater utilization





Ho Chi Minh City/Osaka City partnership -Cooperation Activities-

Policy-making Support towards the Development of a Low Carbon City

- Transfer of Osaka City's knowledge, experience, technology, and systems in urban management and urban development.
- Consultation on specific cooperation details through mayor-level policy dialogues.
- Sharing of knowledge and solutions for problems through trainings in Japan and working groups.



Local working groups on Climate Change Action Plan and projects

Early Realization of Projects through Public-Private Partnerships (PPP)

- Project proposals for each sector (10 sectors), including land use, energy, transportation, waste, etc.
- Formulation and implementation of JCM project
- Development of the Ho Chi Minh City Climate Change Action Plan in order to strategically move forward with activities.

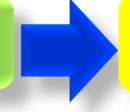


Briefing on JCM projects for Japanese companies



Ho Chi Minh City Climate Change Action Plan (2016-2020)

Climate Adaptation Strategy based on cooperation with Rotterdam City, as formulated in 2013



Climate Change Action plan (2016-2020) (CCAP) based on cooperation with Osaka City, as formulated in 2015

Climate Adaptation Strategy Ho Chi Minh City

moving towards the sea with climate change adaptation



Measures of 10 sectors for CCAP

- 1.Land Use Planning 2. Energy 3.Transportation
- 4.Industry 5.Water Management
- 6. Solid Waste Management 7. Agriculture
- 8. Healthcare 9. Construction 10. Tourism



10%-20% below 2013 levels by 2020



List of Suggested Projects for Ho Chi Minh City Climate Change Action Plan 2016-2020 Draft List of Suggested Projects for HCMC CCAP 2016-2020

Project already begun for preparation

No	Sector	Project	Description of Project	Target of Project (*Underlined site means that project with accorde innicommission ples.)	Related plans/programmes of HCMC	Merits of Project Implementation	Experience of Oraka City	Relevant request from HCMC
W-1	Transportation	Truffic Denund Management	Optimization of traffic demand of private vehicle and public transportation is presented, and smooth transportation flow is comprehensively ensured. Specifically, route guidance, traffic	Urber area	- HCMC CCAP 2015 Appendix 1419 "Depti COOT, 2015-2014 Appendix 1419 "Depti COOT, 2015-2014 Appendix 1419 "Depti COOT, 2015-2014 Appendix 1419-2014 Appendix 1419-2014 Appendix 1419-2014 Appendix 1419-2014 Appendix 1419-2014	Mitigation of truffic jums Improvement of air quality	Ondex City Basic Environmental Plan (Promotion of Traffic Demand Management (TDM) profited) - Seek to the restraint of demand for varieties due to the promotion of TDM methods	- "HCMC does not suppropriate transport policy and myst formant from Dept. of Fluenting or family (DFT), at meeting with DFT on the suppropriate transport policy or family (DFT), at meeting with DFT on the suppropriate transport policy or family suppropriate transport policy and properties of the suppropriate transport policy and properties of the suppropriate transport policy and properties transport policy an
1-2	Timege	Related	plans/p	rogramm	nes of HCMC	- Improvement of fact officiency - Statisation of inelfic socidents	4,000 traffic signals (Prosentation High-Level Symposium held Omica, 21 Oct. 2013)	engerveners of faul officiency and lead. Fixine-p* (MoU agend by mayors of BCM Chain City on 22 Oct 2013, and presentation Figgs-Lovel Symposium 80 October, on 21 Oct.
			constructions, run distance, driving streads, etc.					- "Supports to establish IT closal system inclu- archives are approx- /S held in HCMC, o
IE-3	Transportation	Construction of Solvery	Model shift to public transportation by construction of subway	Urban area	Relevant request from HCMC			
							Little City protected the number utilisation.	
н	Transportation	Development of underground malls	Creating pedestrian space in the underground area by developing underground mails	Orben eros	Construction of Metro #1 of HCMC	Mitigation of traffic jums Production's safety Development of underground mails	stillution.	such as underground electric cables and pipes should be undertaken because they are under disorder." (Comment from HCMC, at WO-
14	Transportation Transportation		underground area by developing	Urban area	Construction of Metro #1 of HCMC Construction of Metro #1 of HCMC	- Pedestroe's safety	Management of 6 underground malls in Ouska city by a Ouska local company (Ouska Chikagai Corp.co. Jul.) - In order to secure pedestrise's solety - Contribution to the mitigation of	such as underground electric cobies and pipes should be undertaken because they are under disorder." (Comment from HCMC, at WG- CCAP92 held at Rex Hotel on 21 Aug. 2014)
1660		malls	underground area by developing underground mells Promote the use of naivesy as an alternative transportation mode, to achieve mode shell to public			Profestion's safety Development of underground malls Mitigation of traffic congestion	Manugement of 6 undergrouned mali in Osaka city by a Osaka local company (Osaka Ciclospai Corp.co, Id.) - In order to secure pedestrian's suitely - Contribution to the mitigation of traffic jures Osaka City has 9 subwey lines (total nail distance in 157 Men) and sepressimately 2.3 railion passengeroldes use them. In addition, Osaka City promotion for further	disorder.* (Comment from HCMC, at WO- CCAFR2 held at Rex Hotel on 21 Aug. 2014) "Subway will contributes to a low-carbon city (comment at the at WO-CCAFR2.2 held at DONRE on 22 Aug. 2014)



JCM Model Projects in Ho Chi Minh City

 Utilization of Biogas from Solid Waste at Binh Dien Wholesale Market

Japan implementer: Hitachi Zosen GHG reduction: 3,355tCO2/year

 Eco-Drive Project with Digital Tachographs (HCMC and Hanoi)

Japan implementer: Nippon Express

GHG reduction: 315tCO2/year



Ongoing JCM Projects in Ho Chi Minh City

 Integrated energy efficiency improvement at buildings
 Japan company: Shimizu Corporation



 Park & bus ride system with utilization of shopping mall parking lots
 Japan company: Nikken Sekkei Research Institute



 Integrated energy-from-waste project Japan company: Hitachi Zosen



Energy efficiency improvement in factories
 Japan company: Panasonic Corporation and
 Tepia Corporation Japan



Photovoltaic power generation
 Japan company: Next Energy & Resources Co., Ltd.



Solid Waste Management Projects Solid Waste Management Projects Carbon City in Ho Chi Minh City

Future



Change in the quantity and quality of waste

Change in industry structure

Current

- *Waste disposal at Landfill sites
- Promotion of recycling
- Prevention of Illegal dumping

Household waste separation at source

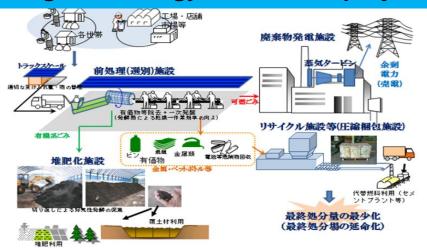




Structural change of waste treatment

- •The realization of a low carbon society
- Improvement of integrated solid waste management systems

Integrated energy-from-waste project



Utilization of biogas from solid waste at Binh Dien wholesale market





Low Carbon Society in tandem with Economic Growth



Underground shopping area



Waste-to-energy



Energy-efficient hospitals

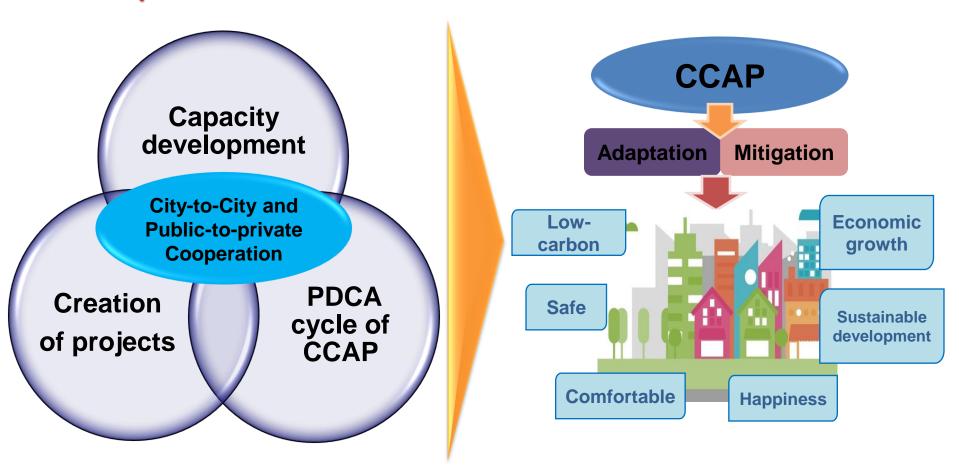


Promote the inter-city cooperation in a wide range field and support the safe, comfortable and low carbon town planning at Ho Chi Minh City



Toward the Realization of the Development of a Low Carbon City in Ho Chi Minh City

Sound Implementation of CCAP



"Ho Chi Minh City Climate Change Action Plan (CCAP) (2016-2020)"

In order to promote mid- and long-term climate change countermeasures, including mitigation and adaptation in Ho Chi Minh City



Expected outcomes from the inter-city Cooperation Project

Lifestyle improvement through economic development and the achievement of "leapfrog" development, in which there is simultaneous achievement between a low carbon, recycling oriented society and a naturally-symbiotic society.

- International announcement through COP and other platforms
- ➤ Ho Chi Minh City will "leap" forward as a model for other megacities in Asia which face similar issues
- Contribution for GHG emission reduction and environmental conservation globally, using technologies in Osaka and Kansai







