Towards Sustainable Development and a Decarbonized Society through City-to-City Cooperation



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Today's Talk



- Profile of the City of Yokohama
- Yokohama's experience & expertise
 - (Overcoming urban challenges, Zero Carbon Yokohama declaration, sharing insights with other cities in Japan & abroad)
- ■Efforts with cities abroad for sustainable urban development driven by city-to-city collaboration

(Chain of actions from formulation of multidisciplinary master plan to real-world deployment)

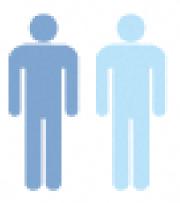
- Achievements in Bangkok, Danang & elsewhere
- Actions toward a decarbonized society

Profile of Yokohama

Location of Yokohama



Population: 3.77 million Households: 1.77 million



Area: 435 km²



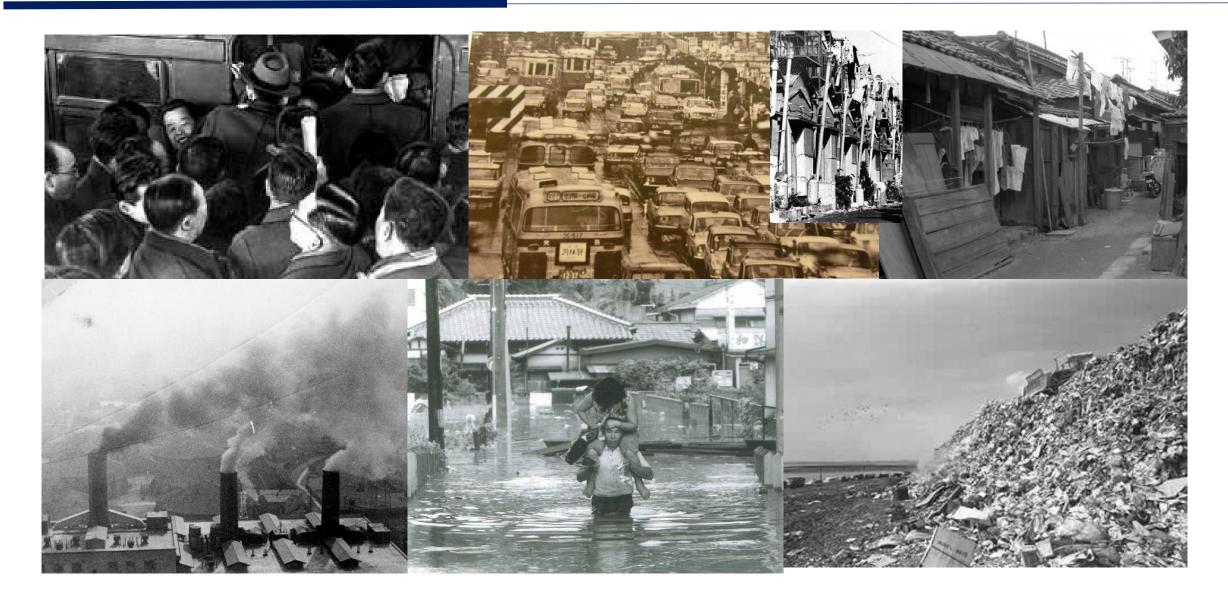
Urban Development in Yokohama City



Present



Challenges Caused by Urbanization





Public sector experience in City Development





Private sector technologies and services







Yokohama Urban Smart Solution

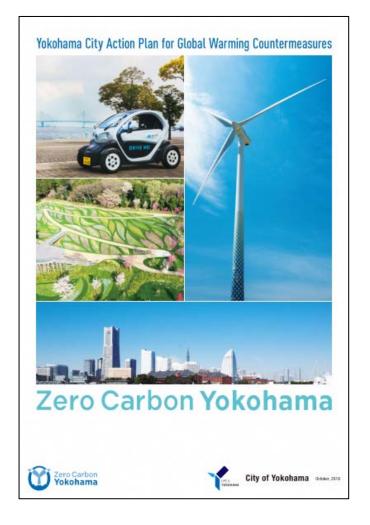
Platform for exporting Yokohama's city development expertise as a comprehensive package, established by the city's International Affairs Bureau in 2011

Our commitment to leading the way to carbon neutrality





Zero Carbon Yokohama: Declaration to decarbonize our city by 2050 (issued Oct. 2018)



Collaboration & coordination with other Zero Carbon Cities

 Conceived by the Mayor of Yokohama, the Council of Zero Carbon Municipalities was established as an association of municipal governments that declared to become carbon neutral by 2050

• Membership: approx. 200 municipalities

Chair: Mayor of Yokohama

 Submitted proposals to the Minister of the Environment for incorporation in roadmap to be formulated by the Council for National and Local

Decarbonization



International partnering in decarbonization















C40

C40 Cities Climate Leadership Group (Yokohama, London, Paris, etc.)

Frankfurt, Germany

Cooperation under the EU-Japan International Urban Cooperation Programme, and exchanges of opinions on energy and other topics

横浜

Yokohama

CNCA

The Yokohama City Renewable Energy Promotion Project is being implemented with CNCA funding

Global network of cities leading efforts to tackle global warming



COP26
Spotlighting of climate change actions

Asia Smart City Conference **The 5th Asia Smart

Asia Smart City Conference (hosted by Yokohama, since 2012)

Y-PORT

- Support for drafting of Bangkok Master Plan on Climate Change
- Support for formulation oDa Nang's 10-year environment plan

Partners include 42 companies, 4 cities overseas, the ADB and 6 other international organizations, and others

Y-PORT's major activity locations



Cities that have signed a MoU on Technical Cooperation for Sustainable Urban Development with Yokohama

Bangkok



- Bangkok Master Plan on Climate Change
- Installation of rooftop solar generators and energy management systems at factory

Batam



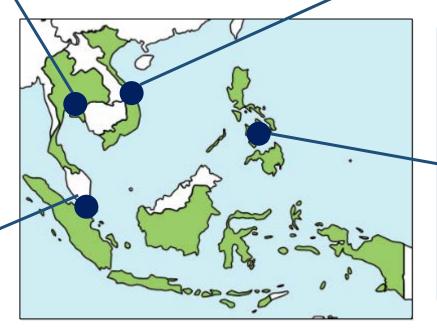
Support for development of green building regulations

Da Nang

- ➤ Da Nang Urban Development Action Plan
- Energy efficiency diagnostic service for hotels, factories, etc.
- Installation of high-efficiency pumps at Da Nang Water Supply facility







Cebu



- ➤ Mega Cebu Roadmap 2050
- > Waste plastic recycling
- High-efficiency treatment of septage

Framework for developing infrastructural businesses (seamless support from upstream planning to operationalization)

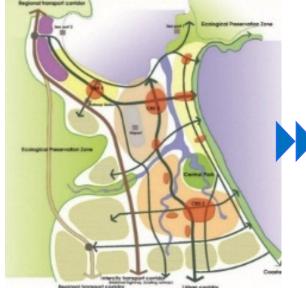


City-to-city cooperation Master plan Action plan Feasibility study

Demonstration

Operationalization

Processes from technical cooperation (project ideation) to operationalization are driven through the Da Nang Urban Development Forum, etc.









Demonstration of energy efficiency diagnostic service (Osumi Co., Ltd., a Yokohamabased SME)

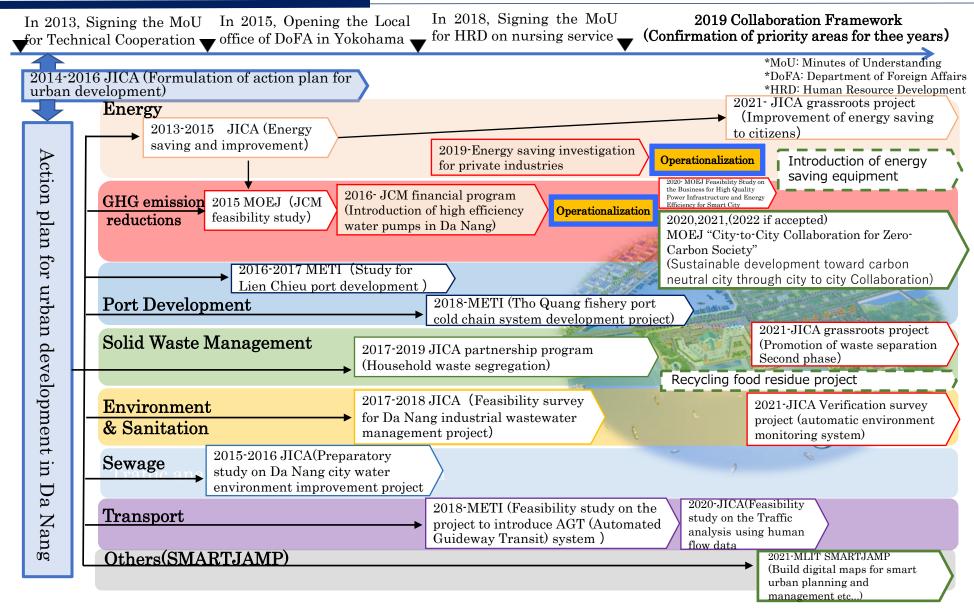


Replacement of pumps at water purification facility (Joint Credit Mechanism-supported project)

Da Nang's future conceptual image and action plan, formulated with support from Yokohama/JICA

Projects under City-to-City Collaboration Da Nang City in Vietnam





Projects under City-to-City Collaboration Batam City in Indonesia





 Representatives of participating companies and Y-PORT Center (City of Yokohama, IGES, etc.) visited from Japan to carry out business matching and joint surveys with assistance from Batam City and Batam Indonesia Free Zone Authority (BIFZA)





 A Yokohama-based SME conducted a JICA project feasibility survey (project for improving functionality of existing sewage treatment plant by installing a dehydrator for pretreatment)









(1) Waste plastic recycling in Metro Cebu, Philippines: Guun Co., Ltd. (Kanazawa Ward)

(5) Water leak detection training for Bangalore Water

(9) Delivery of water improvement system to hotel in

Żámyn-Üüd, Mongolia: Toshi Kogyo Co., Ltd. (Minami

(13) Delivery of water pipe leak detectors in Ho Chi Minh

City and elsewhere in Vietnam: Suidou Technical Service

Supply and Sewerage Board staff in Bangalore, India:



(2) Installation of high-efficiency pumps at Da Nang Water Supply in Da Nang, Vietnam: Yokohama Water Co., Ltd. (Naka Ward)



(3) Delivery of sludge dehydrator to sewage treatment plant in Baguio, Philippines: Amcon Inc. (Kohoku Ward)

SME

YUSA

YUSA

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(4) Supply of electricity to factory in Bangkok, Thailand from rooftop solar generator and advanced energy management system: Finetec Co., Ltd. (Midori Ward)





YUSA

SME

SME

(6) Consultation in support of smart city development at industrial park for Amata Corp. in Chonburi, Thailand: YUSA (Naka Ward)



(7) Consultation in support of smart industrial park development planning for private sector in Chachoengsao, Thailand: YUSA (Naka Ward)



(8) Construction of Yen Xa wastewater treatment plant in Hanoi, Vietnam: JFE Engineering Corp. (Tsurumi Ward)



Ward)

SME



(10) All-in-one energy efficiency support services for private-sector factories etc. in Da Nang, Vietnam: Osumi Co., Ltd. (Seya Ward)



(11) Consultation in support of smart city development in Thailand, Laos & Myanmar for Amata Corp.: YUSA (Naka Ward)

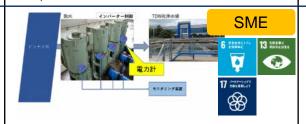


(12) Consultation in support of smart city development in Quảng Ninh, Vietnam for Amata Corp.: YUSA (Naka Ward)



Co., Ltd. (Asahi Ward)





(15) Energy efficiency improvement for water intake pumps in Ho Chi Minh City, Vietnam through installation of inverters: Yokohama Water Co., Ltd. (Naka Ward)





YUSA

YUSA

(16) Consultation in support of smart city development in Thailand, Laos, Myanmar & Vietnam for Amata Corp.: YUSA (Naka Ward)

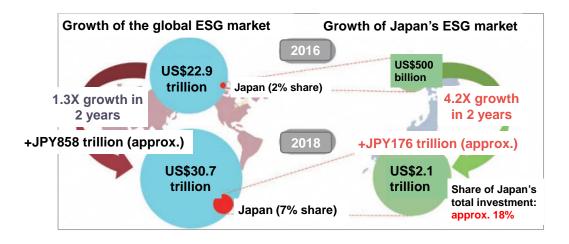




(14) Delivery of sludge dehydrator to private-sector factories in Metro Cebu and elsewhere in the Philippines: Amcon Inc. (Kohoku Ward)

Accelerating decarbonization

Expansion of ESG finance



Source: Japanese Ministry of the Environment, "Annual Report on the Environment, the Sound Material-Cycle Society and Biodiversity in Japan 2021," p. 43

COP26 agreements on market mechanisms, etc.

General Outcomes

COP26 issued a call for all parties to pursue ambitious climate actions grounded in the best available science to advance towards carbon neutrality in the middle of this century, and for the waypoint year of 2030. The pact requests all participating nations to accelerate their efforts, including the phasedown of unabated coal power and inefficient subsidies for fossil fuels. It also urges developed nations to at least double their adaptation finance to developing nations (versus 2019) by 2025.

Market Mechanisms

The parties reached agreement on implementation rules for the market mechanisms outlined in Article 6 of the Paris Agreement, resulting in completion of the Paris Rulebook. Japan contributed significantly to this process with a breakthrough proposal for preventing double counting that was adopted in the rules.

● Enhanced Transparency Framework

The pact included agreement on common formats for all parties' reporting of GHG emission national inventories and progress toward their NDCs.

●Common Time Frames

The parties are encouraged to report in 2025 their NDCs ending in 2035, and in 2030 those ending in 2040 (and every five years thereafter).

Climate Finance

Negotiations were launched for the setting of new quantified goals for adaptation finance to developing nations post 2025. A new Ad Hoc Work Programme was established for consultations up through 2024.



Moment of adoption of COP26 resolutions
Source: UNFCCC Secretariat website

Source: Japanese Ministry of Foreign Affairs, "Summary of Outcomes of 26th session of the Conference of the Parties to the United Nations Framework Convention on Climate Change (COP 26)"

Bilateral City-to-City Collaboration Bangkok Master Plan on Climate Change 2013-2023

-2023

Bangkok 2050 Carbon Neutral Declaration (October 28th 2021)

Objectives

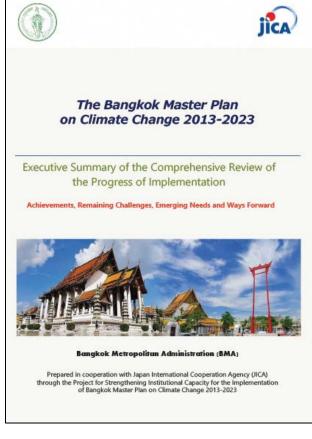
- (1) Drafting a Bangkok Master Plan on Climate Change 2013-2023
- (2) Capacity development for the implementation of the Master Plan



Yokohama City cooperates through JICA technical cooperation project;

- ✓ Dispatch of policy and technical experts (Yokohama City officials) for advising BMA
- ✓ Receives BMA officials study tour

For jointly drafting Master Plan and develop mitigation and adaptation activities, and institutional arrangements



Bilateral City-to-City Collaboration Bangkok Master Plan on Climate Change 2013-2023





Bilateral City-to-City Collaboration Da Nang's Environmental 10-Years Plan



Objectives

Support for the formulation of the "Environmental 10-Years Plan" (2021-2030) of Da Nang City,



Main contents of cooperation

- Formulation of the "Environmental 10-Years Plan" (2021-2030)
- Development of smart and sustainable urban planning strategies
- Model development of low-carbon technology
- Climate change education
- Formation of JCM (Joint Credit Mechanism) project

