City to City Collaboration towards Smarter City Management to be presented on Oct 30, 2014



City to city collaboration towards smarter city management

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Instructions:

- introduce current project on urban development
- discuss the management through city to city collaboration
- share knowledge about effectiveness of "City to City Collaboration" on sustainable urban development







Introduction of current project on urban development







BMA is formulating a 10-year Master Plan, 2013 - 2023, which covers adaptation and mitigation plan supported by the City of Yokohama.









Environmentally Sustainable Transport

- sources and provisions for clean energy
- low emission vehicles
- EV for vehicles and hybrid buses
- large scale of car-sharing schemes via micro mobility











Energy Efficiency and Alternative Energy

- renewal of dilapidated equipment of heat sources
- optimal control of energy by BEMS
- environmental consideration systems for buildings
- systems for incorporation of renewable energy







Efficient Solid Waste Management & Wastewater Treatment

- organic waste power generation
- technology of treatment of sewage and sludge











Green urban Planning

- "Yokohama Green Up" Plan
- land, roof-top, and wall greening









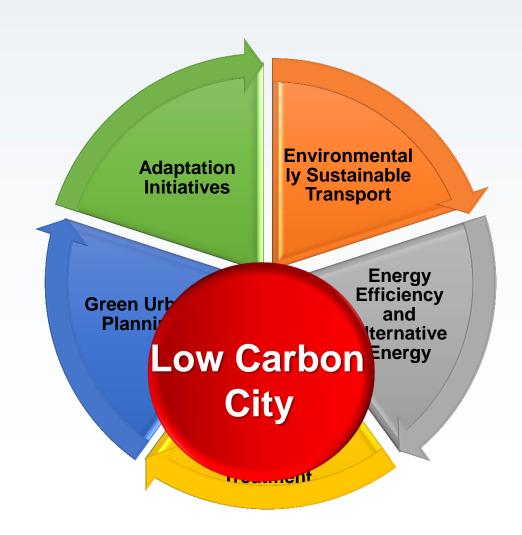


The management of the project through the city to city collaboration













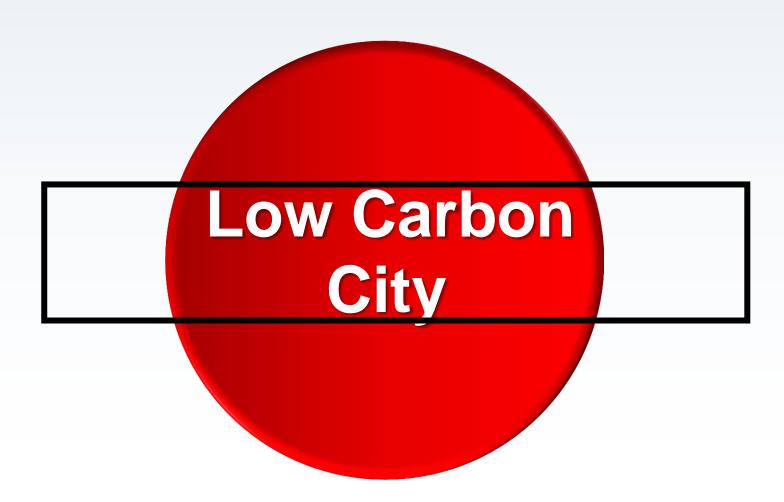








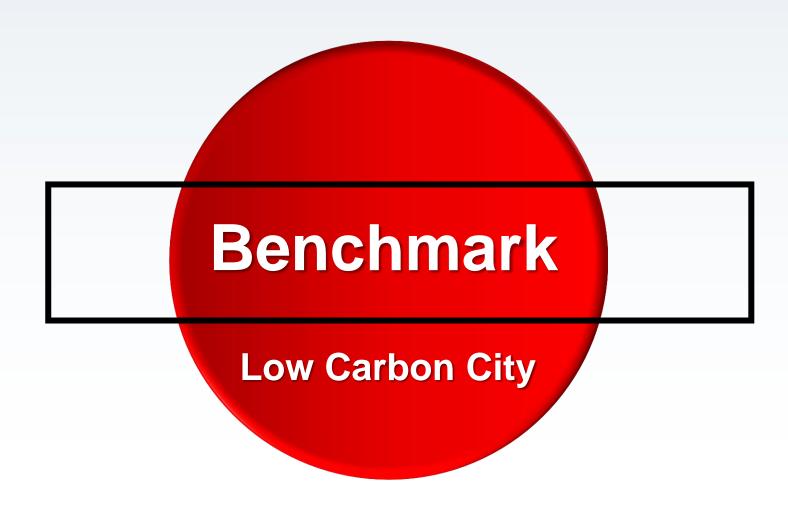


















Techniques of Constructing Measuring and Evaluating (M & E)







Techniques of Constructing

Measuring, Reporting and Verifying (MRV)







Techniques of Constructing Thailand Greenhouse Gas Organization(TGO)







Techniques of Constructing Thailand Greenhouse Gas Organization(TGO)

Low Applicability Low Carbon City
Not Pertaining to

- physical aspects
- geo political aspects of Bangkok Metropolitan







Techniques of Constructing M & E and MRV upon the Collaboration







Techniques of Constructing M & E and MRV upon the Collaboration

Systematic implementation of energy saving retrofitting works of existing buildings of BMA

Energy saving requirements for retrofitting works of BMA facilities

Setting of high-level of energy efficiency

Acquisition of certification for energy saving renovation work (CASBEE)







Techniques of Constructing M & E and MRV upon the Collaboration

- Introduction of low emission vehicles (LEV) to public vehicles
- Introduction of NGV to BMTA buses
- Promotion of Eco-driving
- Development / expansion of bikeways
- Expansion of "Bike-for-Rent" Scheme







Techniques of Constructing M & E and MRV upon the Collaboration

Promotion of public participation on waste reduction and separation Encouragement on utilization of organic waste at sources Utilization of organic waste Construction of waste-to-energy incineration facilities Construction of new composting plants Construction of waste segregation plants







Techniques of Constructing M & E and MRV upon the Collaboration

Increase in new green areas of both public parks and public areas
Provisions on well-management
Provisions for maintenance of planted trees
Increase of the Biotope Area Factor (BAF) in investment on private lands
Provisions on planting new trees along roadside areas







The effectiveness of "City to City Collaboration" on sustainable urban development







Techniques of Constructing M & E and MRV upon the Collaboration







Techniques of Constructing M & E and MRV upon the Collaboration

Provisions and measures for sustainable urban development could be derived from metropolitan or city to national level, i.e., bottom up rather than top-down schemes



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Thank You for Your Kind Attention







