

Collaborative Actions
of Cities
Tokyo's Experience

20150729 ISAP
Bureau of Environment
Tokyo Metropolitan Government
Yuko Nishida

Tokyo Metropolitan Government



- 1. Cities and Climate Change
- 2. International Climate Cooperation in Tokyo
 - International network activities
 - City-to-city Initiatives
- 3. Lessons learned





Cities & Climate Change:

Responsibility

World Urban

Population 50%

By 2050 **70%**

Urban Energy Consumption 67%

Urban CO2 **Fmissions**

71%

Drivers to GHG Emissions

Urban contributions to emissions

Emissions of GHG, wastes, aerosols

Land use related factors

Deforestations, urban developments, impervious surfaces, filling wetlands, fragmented eco-system,

⇒ Heat island effects

TOKYO METROPOLITAN GOVERNMENT

限のりかえ専用改木

Cities & Climate Change:

Vulnerability

Urban locations and its vulnerability

Close location to the large water source (Costal area, Large river, Lake...)

Vulnerability of dense population

Growing high density areas

Vulnerability in Infrastructure

Difficulty to catch up with the fast growth







Cities & Climate Change:

Capability & Opportunity

- ◆ Various entities (Companies, Citizens, NGOs, Governments...)
- Scale of economy
- Innovation center
- Functions and experience of local governments

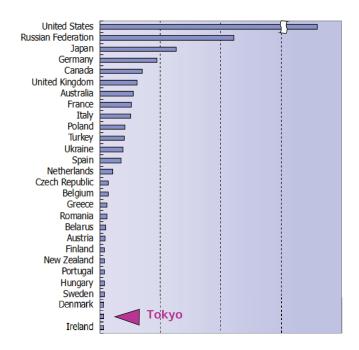




Tokyo'sTotal GHG Emissions

66 million tons CO2 eq(2012)





Carbon Footprint in Tokyo CO2 Emissions in Tokyo Metropolitan Area by Sector Industrial Transportation 18% Commercial 39% Residential CO2 emissions from the building sector

Tokyo's Policy Framework

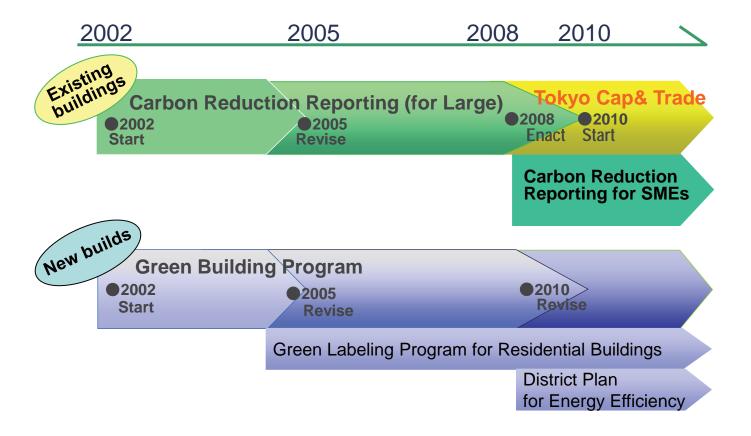
Policy Linkages & Policy Developments

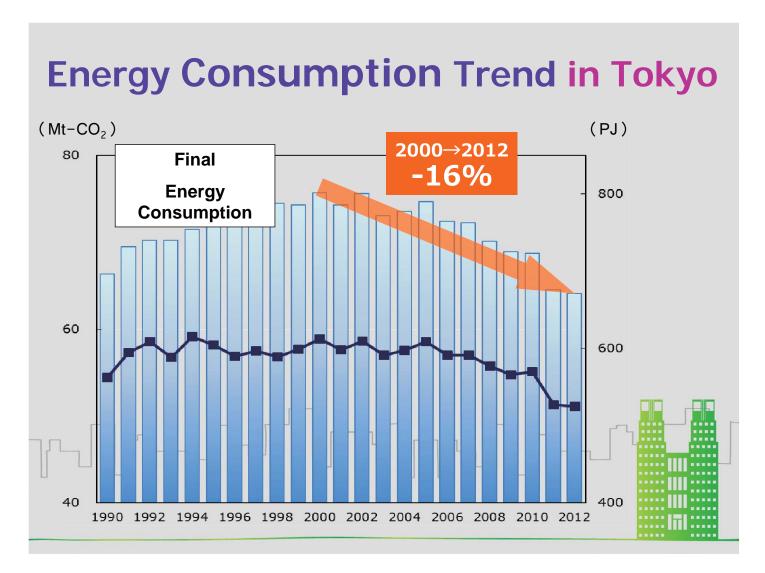






Tokyo's Policy Development





Tokyo Metropolitan Government



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 - **❖ Bilateral Cooperation**
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Local Government

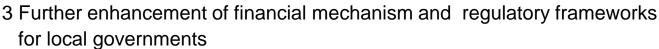
Climate Roadmap

Collaborative actions through networks of cities 1

• I.C. L. E. I Local Governments for Sustainability

Lima Communique

- 1 Latest Science: A point of no-return
- 2 Inclusive and ambitious climate regime



- 4 Partnership with all actors to scale up climate action
- 5 Accelerate advocacy and raise our ambition





•I.C.L.E.I Local Governments for Sustainability and Tokyo









Collaborative work through networks of cities 2

C40CITIES
CLIMATE LEADERSHIP GROUP

The C40 Cities Climate Leadership Group Network of the world's megacities committed to addressing climate change





Leadership by mayors



Subject Specific Networks

Adaptation and water: Climate Risk Assessment, Connecting Delta Cities, Cool Cities

Energy: District Energy, Municipal Building Efficiency, Private Building Efficiency

Finance and Economic Development: Creditworthiness, Green Growth,

Sustainable Infrastructure Finance

Measurement and Planning: Global Standards, Measurement and Reporting

Solid Waste Management: Sustainable Solid Waste Systems, Water to Resources

Sustainable Communities: Climate positive development, Sustainable Urban Development, Transit-Oriented Development

Transportation: Bus Rapid Transit, Low Emission vehicles







Joined in 2006

- --Steering Committee
- -- Collaborative works

Forums, Workshops--Tokyo/Worldwide Demonstrative events

-- Network activities









Collaborative work through networks of cities 3



ICAP

The International Carbon Action Partnership



Participation into the Global Framework Collaborative Actions among City's Network









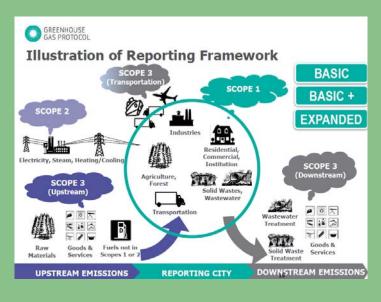
GHG Protocol for Cities

Global Protocol for Community-Scale GHG Emission Inventories (GPC)











Subject-specific network Private Building Efficiency Network



Collaboration of city's officials who engaged in building energy efficiency policy in each city

Workshop, Webinar, Conference call, Research, Joint action...

- --Information exchange
- --Collaboration for multinational stakeholders
- -- Data collections and analysis...



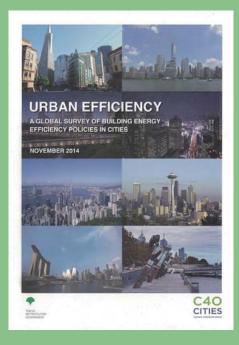


Subject-specific network

Private Building Efficiency Network

in Cities





Urban Efficiency

A Global Survey of **Building Energy Efficiency** Policies

OPolicy map OCase studies on best practices

Highlighting various BEE policies in cities to serve as a resource for city officials Succes factors and key challenges

www.kankyo.metro.tokyo.jp/en/int/c40/c40_pse_r.html

Bilateral Cooperation : PUTRAJAYA Tokyo's Experience on Carbon Reduction Reporting





Reporting Program for Existing Buildings

KEY Reporting Elements

- -Annual CO₂ emissions & energy consumption
- -Plan for reductions





Bilateral Cooperation: ISKANDAR Tokyo's Experience on New Building Program



Reporting Program for New Buildings/Developments

KEY Elements

- -Sustainable design requirement
- -Energy efficiency standards
- -Green buildings ratings





Bilateral Cooperation





Focus

- -- Exchange among the key city officials at work
- -- Understanding the Process
- -- Understanding the context



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Lessons learned

For effective collaborations

Understanding city's strong & week points

Pragmatism based on the experience

vs. Lack of resources



Key Factors

- 1. Network of key officials
- 2. Close relationship among members
- 3. Secured environment
- 4. Supporters for funding, expertise and coordinating

Lessons learned 2

For effective collaborations

Leadership

Communication

Motivation



Cities & Climate Change:

Capability & Opportunity

Toward COP21 and further International collaboration of cities from Tokyo



Photo by (c)Tomo.Yun http://www.yunphoto.net

References

TMG Website: www.kankyo.metro.tokyo.jp/en

TMG Facebook: www.facebook.com/Environment.TMG