

Sustainable Built Environment

A stylized Earth with a sad face and a tear, set against a starry space background with a small planet.

KS Wong

Secretary for the Environment
Hong Kong SAR Government

The Earth is melting.

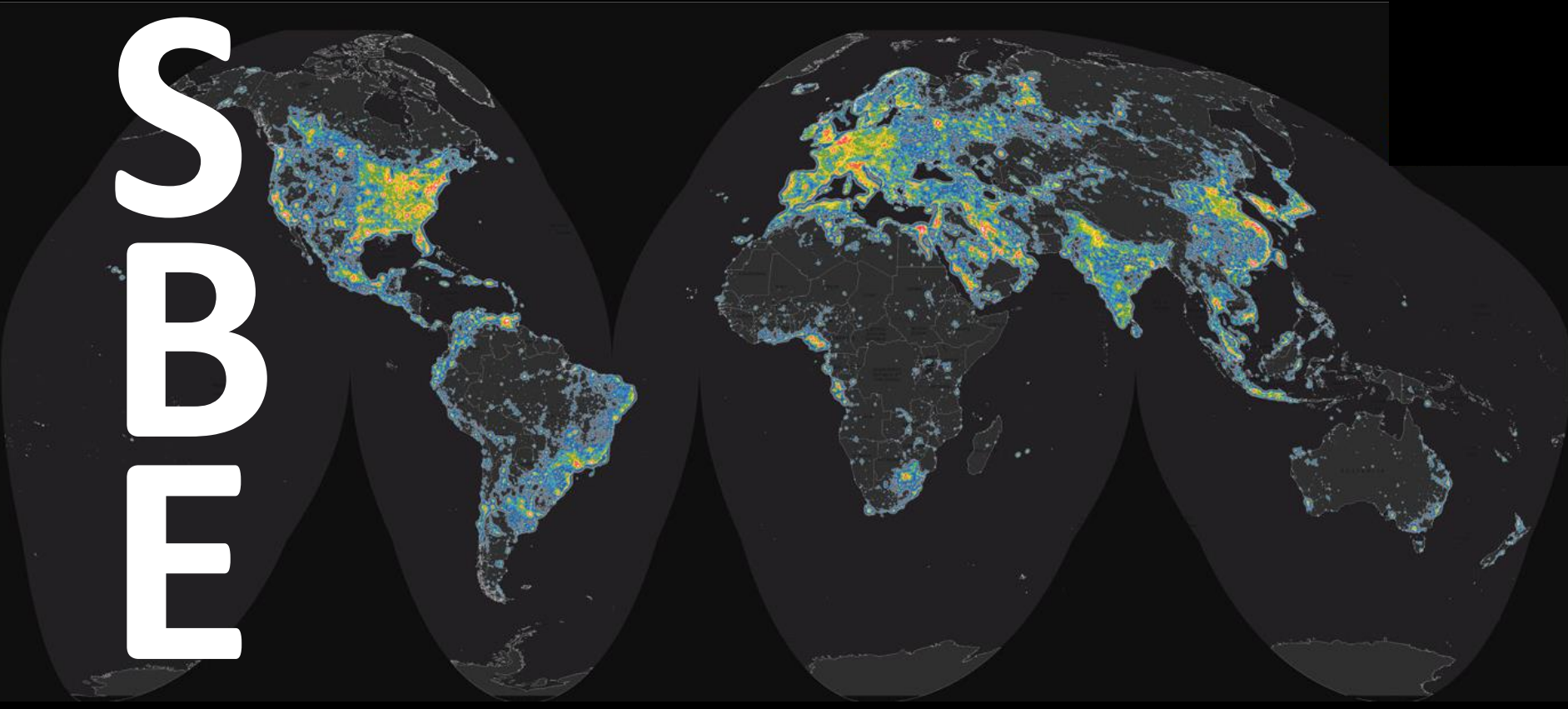
1



Ideas: Worldviews

From GB to SBE

S
B
E



From GB to SBE

GBC'98

GBC2K

SB02

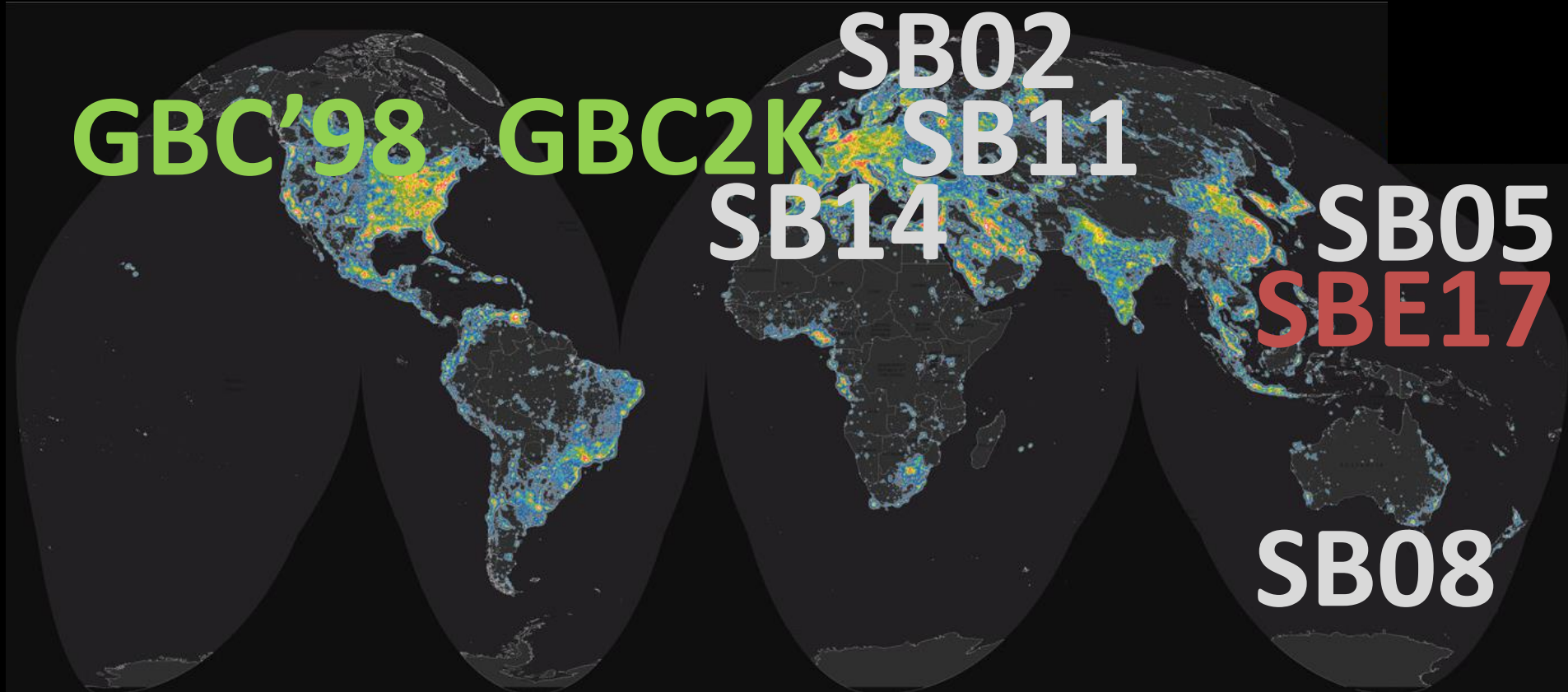
SB11

SB14

SB05

SBE17

SB08



Paris Agreement

1998 2014 2015/2016 2017

GB

VANCOUVER

MAASTRICHT

OSLO

TOKYO

MELBOURNE

HELSINKI

SB

BARCELONA



PARIS 2015
UN CLIMATE CHANGE CONFERENCE
COP21 CMP11

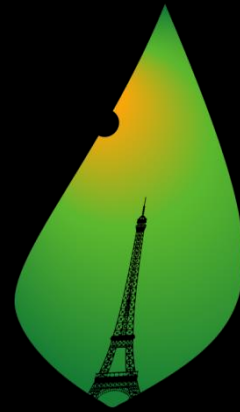
SBE

HONG KONG

2°C

Timeline Transparency Together

2015/2016 2030+



PARIS 2015
UN CLIMATE CHANGE CONFERENCE
COP21 CMP11

SBE
HONG KONG

Target

2



Action:
Policies &
Politics@HK



Compact City

SBE
HONG KONG

VIRGINA YIP

FACEBOOK.COM/ERICVIRFOTO

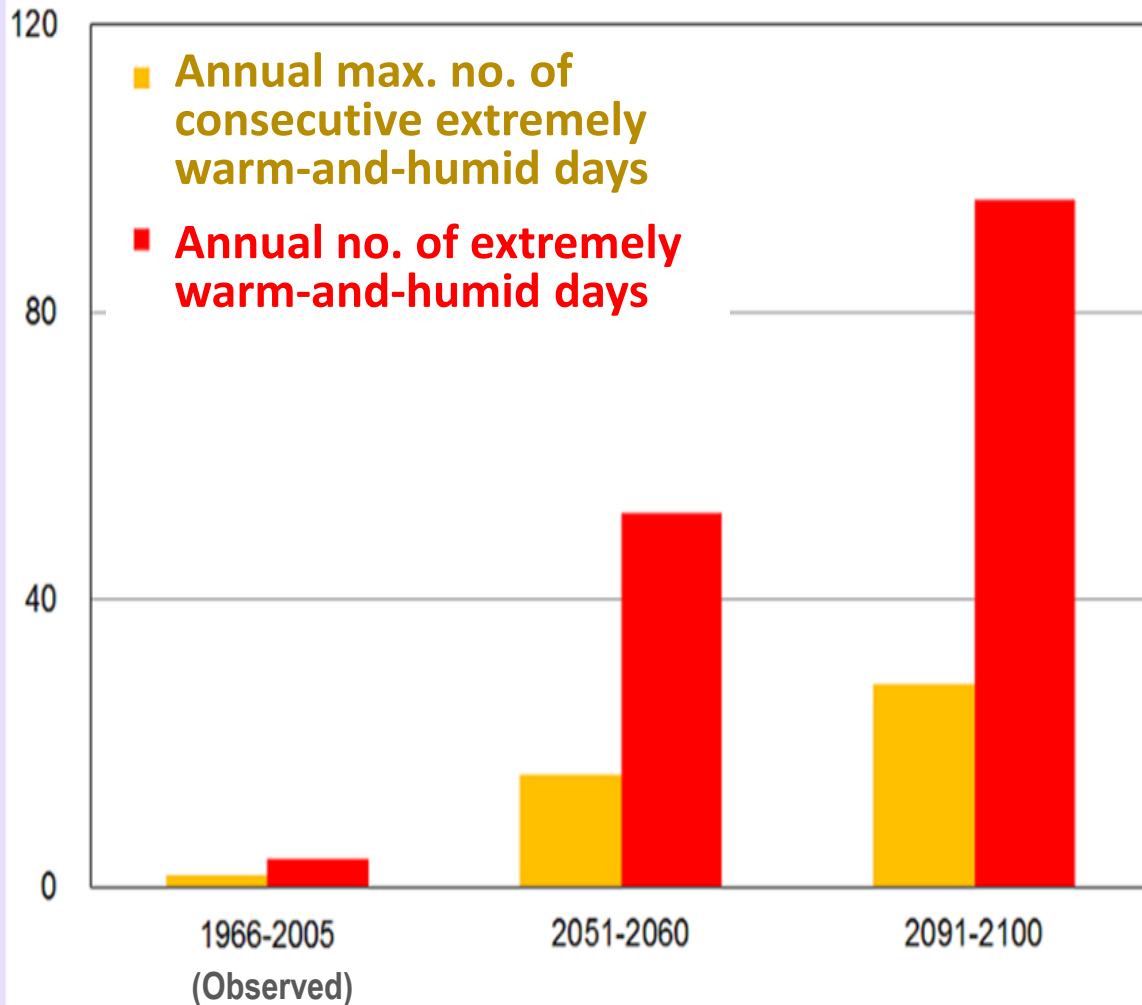
Low concentration scenario

Medium-low concentration scenario

Medium-high concentration scenario

High concentration scenario

Livable City



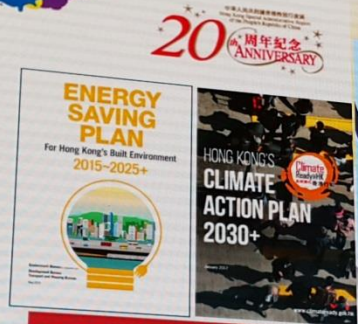
Projected annual number of extremely warm-and-humid days and annual maximum number of consecutive extremely warm-and-humid days in Hong Kong under the high greenhouse gas concentration scenario

SBE
HONG KONG

HK: Before and After COP21

Combating Climate Change

- Steering Committee on Climate Change
- Energy Saving Plan 2015~2025+ (2015)
 - Reduce 40% energy intensity* by 2025 (compare with 2005 level)
- Hong Kong's Climate Action Plan 2030+ (2017)
 - New Target: Reduce carbon intensity by 65% to 70% up to 2030 (compare with 2005 level)



Environment Conference 2017 Hong Kong



HONG KONG'S CLIMATE ACTION PLAN 2030+



January 2017

www.climateready.gov.hk

HK: CAP2030+

www.climateready.gov.hk



The "Hong Kong's Climate Action Plan 2030+" report, published by the Environment Bureau represents the outcome of the dedicated work of 16 bureaux and departments, in support of the Steering Committee on Climate Change led by the Chief Secretary for Administration. The report sets out Hong Kong's new carbon emissions reduction target for 2030 and the concerted plans for meeting it.

[Full Report](#)

[Pamphlet](#)



www.climateready.gov.hk



環境局
Environment Bureau

With the support of:



環境保護署
Environmental Protection Department



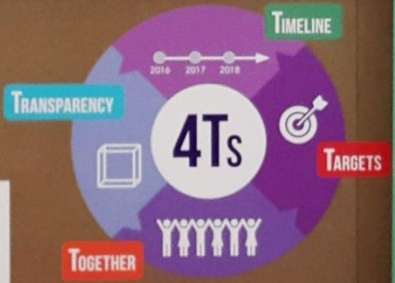
機電工程署
EMSD

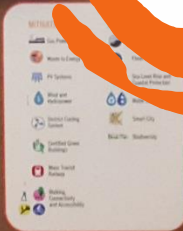
20週年紀念
ANNIVERSARY

CARBON INTENSITY
Reduce carbon intensity by 65% to 70% by 2030 using 2005 as the base



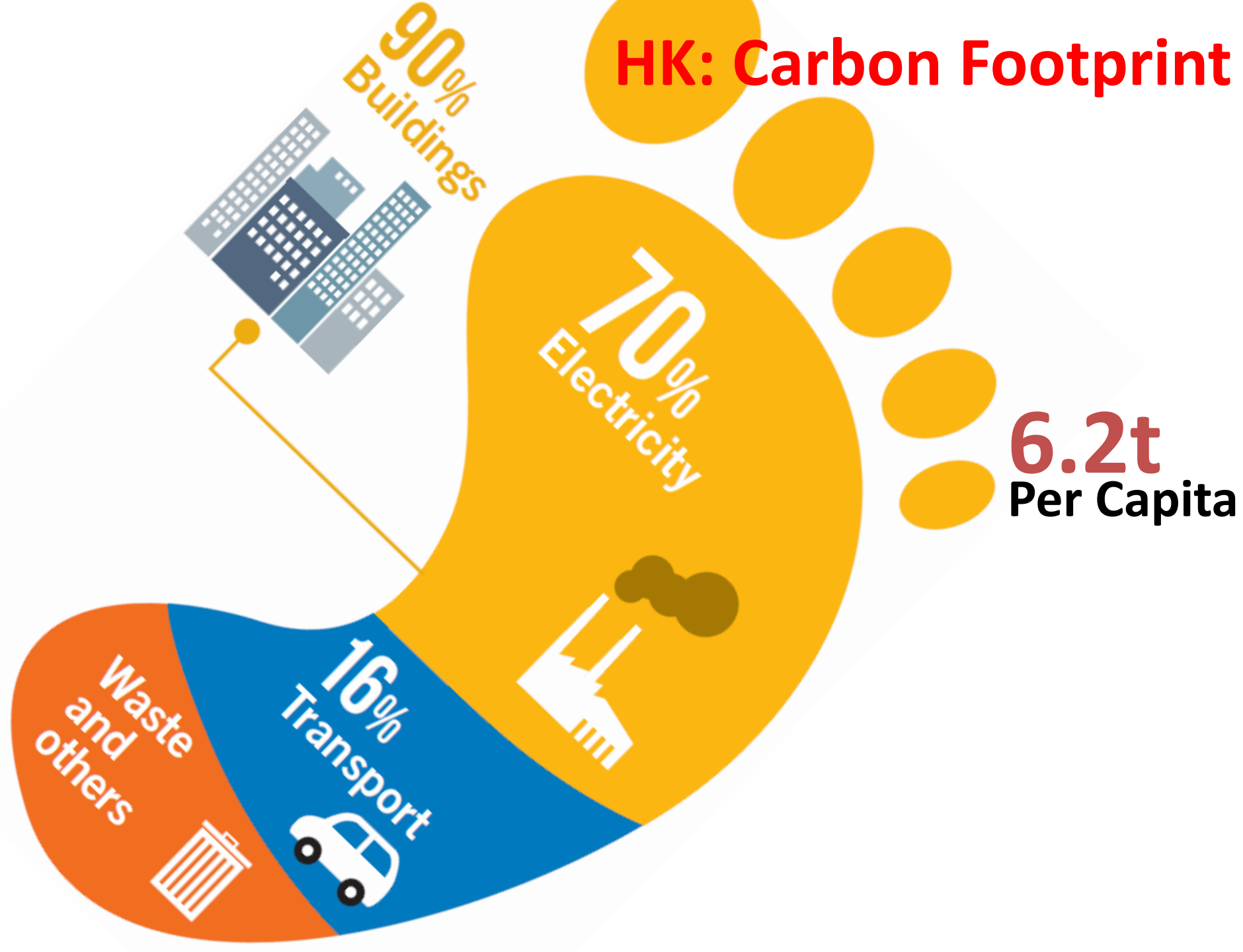
ENERGY INTENSITY
Reduce energy intensity by 40% by 2025 using 2005 as the base



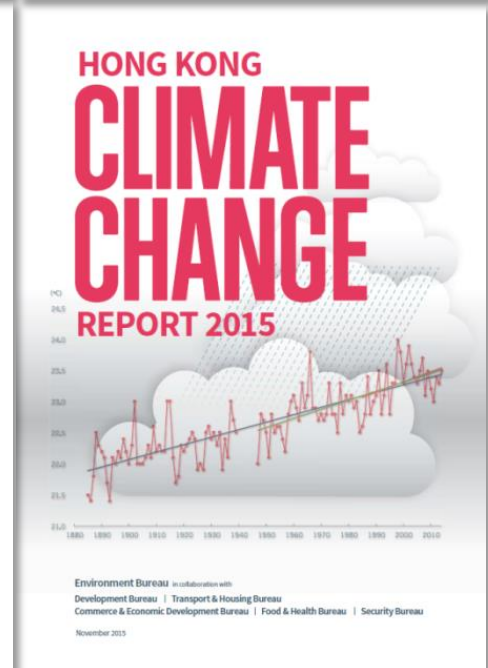
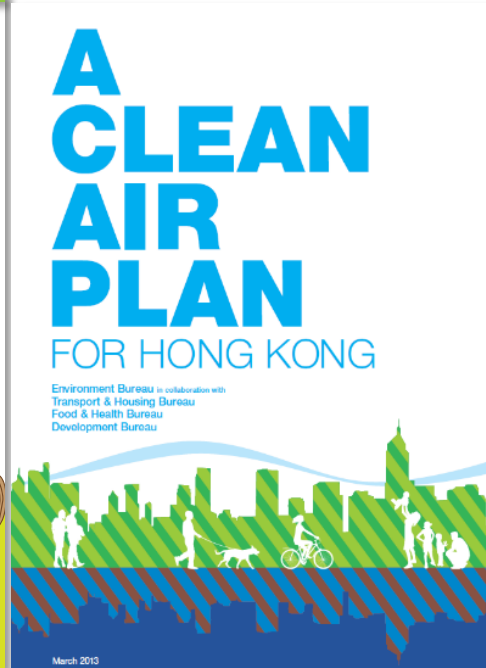
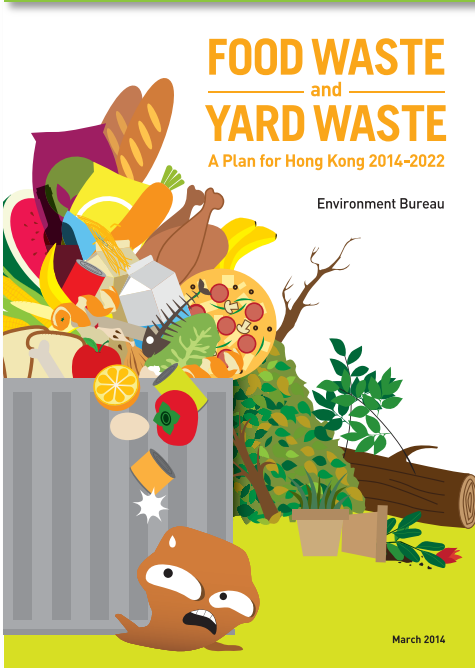
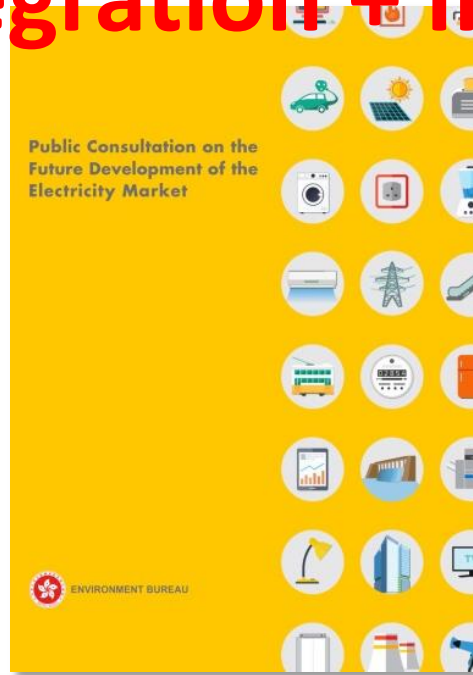
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- Green Buildings
 - Green Transport
 - Green Living
 - Green Industry



HK: Carbon Footprint



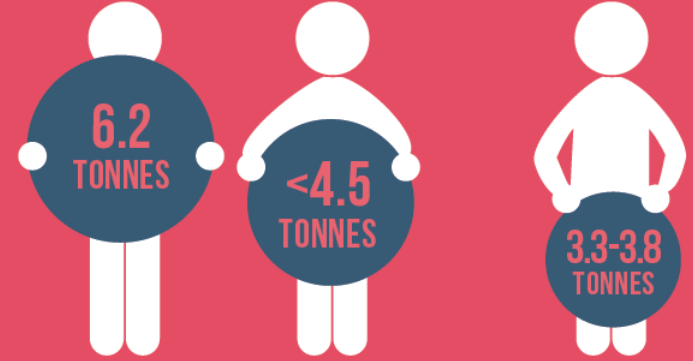
HK: Integration + Innovation



4Ts



PER CAPITA
CARBON
EMISSION



2005
(base year)

2014

2020

2030

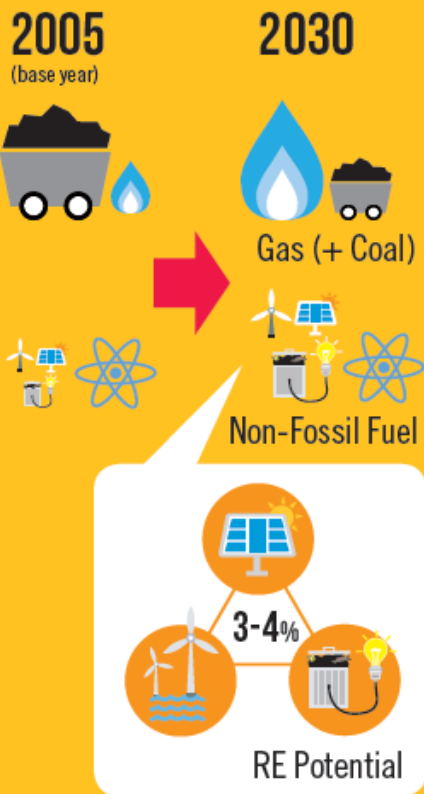
ABSOLUTE
CARBON
EMISSION
REDUCTION



CARBON
INTENSITY
REDUCTION
TARGET



SUPPLY SIDE



DEMAND SIDE



HK: Mitigation

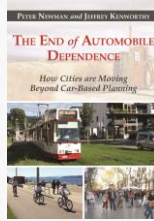
LOW CARBON TRANSPORTATION



LOW CARBON CONSUMPTION

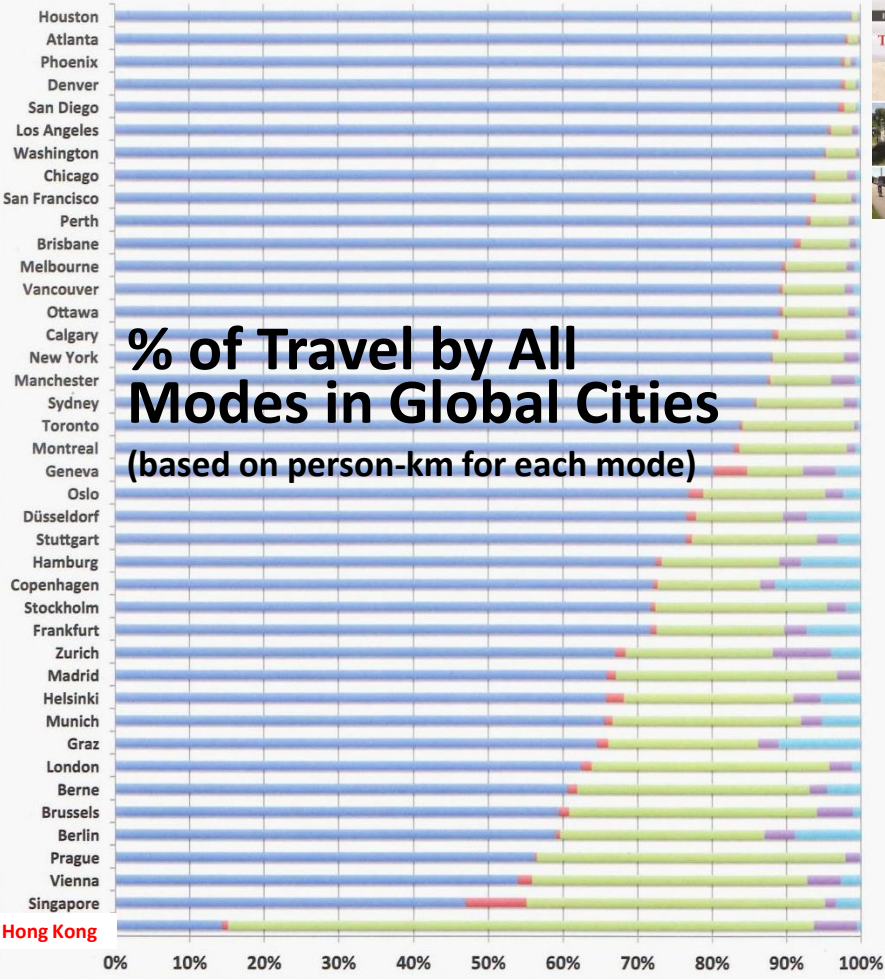


HK: Low Carbon Transportation



% of Travel by All Modes in Global Cities
(based on person-km for each mode)

- Cars %
- MC %
- Transit %
- Foot %
- Bike %



Hong Kong

Public and Private Transportation Energy Use in 44 Global Cities



Hong Kong

HK: Energy & Green Building

SUPPLY SIDE

2005

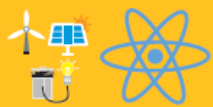
(base year)



2030



Gas (+ Coal)



Non-Fossil Fuel



3-4%



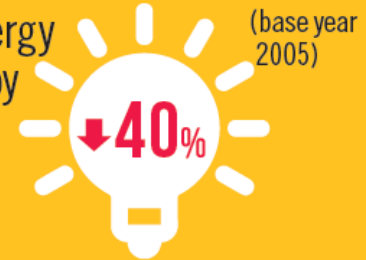
RE Potential

DEMAND SIDE



Target Energy Intensity by

2025



TOGETHER



Showcase Green Buildings

Retro-commissioning

5 YEARS
SET TARGETS AND TIMELINE

Audit and implement energy management opportunities through retrofit

HONG KONG GOVERNMENT

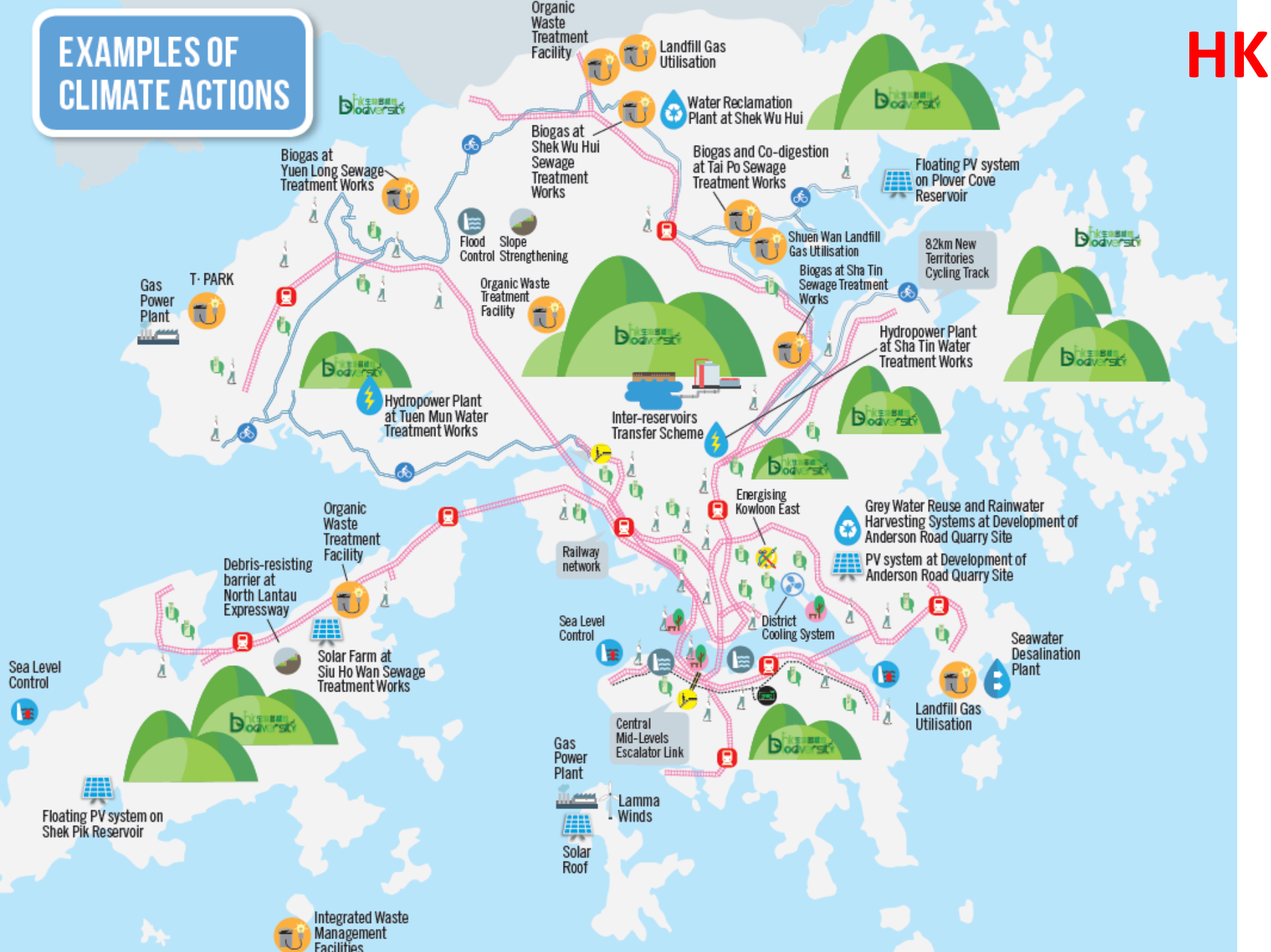
Out-perform Building Energy Code for new buildings

Green procurement

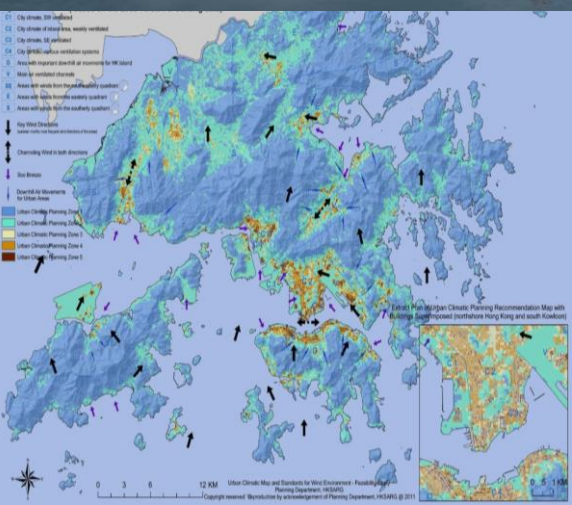
BUILDING SECTOR

TRANSPARENCY

EXAMPLES OF CLIMATE ACTIONS



District Cooling Urban Climate Smart City.....



TARGET

Year 2025

ENERGY INTENSITY

Hong Kong to achieve energy intensity reduction by 40 % by 2025 using 2005 as the base



Be "Energy Aware" and "Energy Wise"



GOVERNMENT BUILDINGS AND PUBLIC HOUSING

- New government buildings with construction floor area of >5,000 m² with central air-conditioning or >10,000m² to achieve at least BEAM Plus Gold; and
- New public housing to achieve at least BEAM Plus Gold ready

POLICY

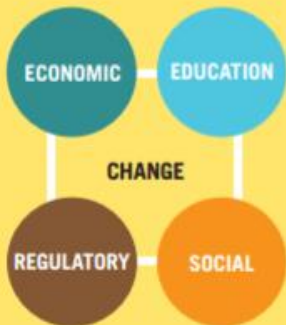
STRATEGY

To drive energy saving through a combination of educational, social, economic and regulatory means, especially for buildings and inhabitants to become highly energy efficient by 2025

PUBLIC SECTOR
Government and public sector development agencies to lead by example and accelerate conditions for change

PRIVATE SECTOR
Focus on energy saving in new and existing private sector buildings to capture potential gains

PARTNERSHIP
Collaborate with energy and built environment stakeholders to enable the 'Energy Wise' transformation



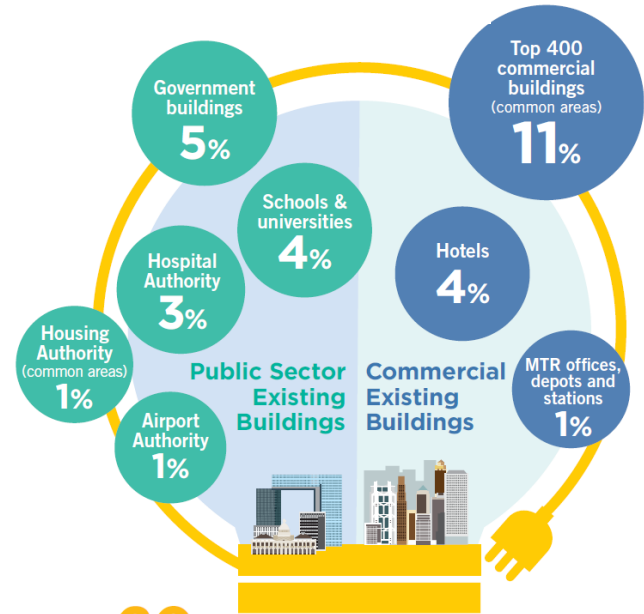
NB+EB



DEEPENING ENERGY SAVING IN EXISTING BUILDINGS

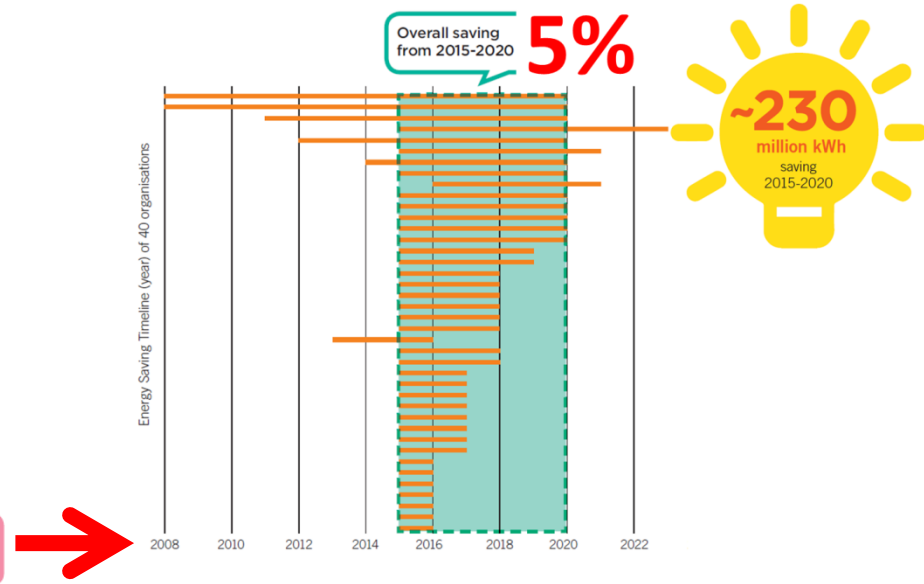
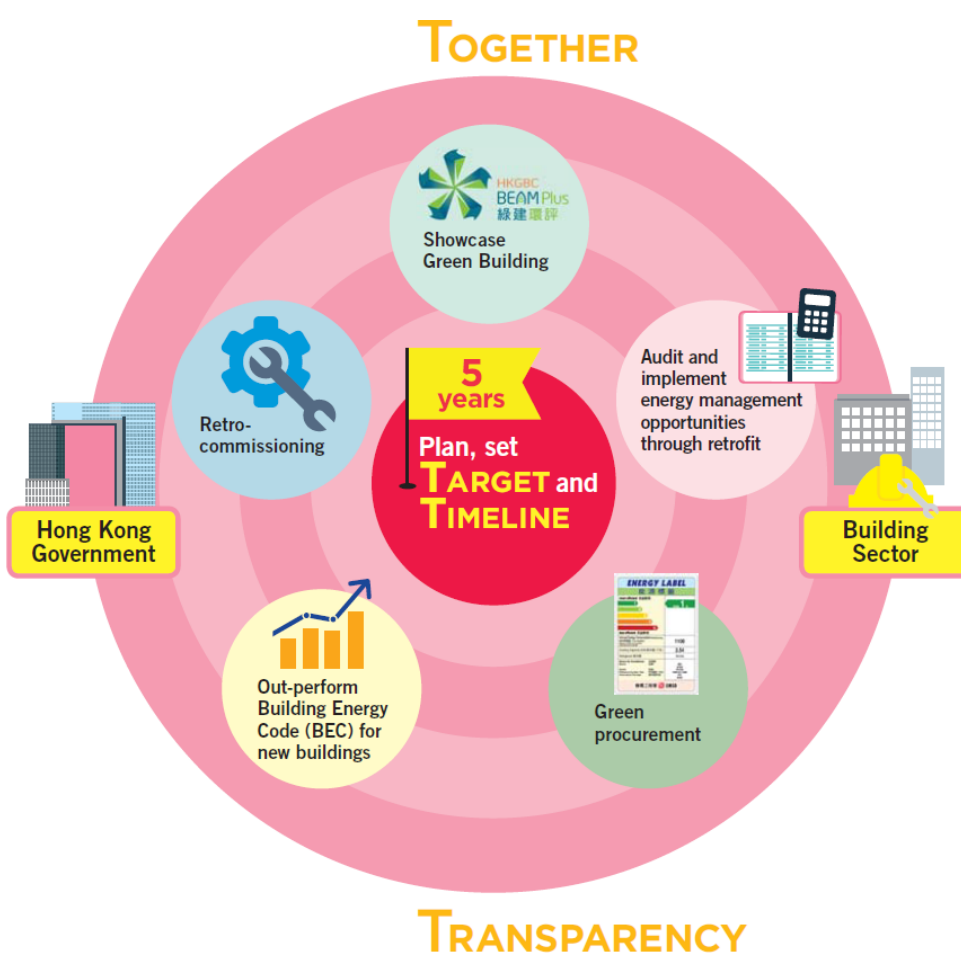
IN HONG KONG THROUGH '4Ts' PARTNERSHIP

EB: 4Ts



equivalent to **20%** of total electricity use in Hong Kong

EB: 4Ts Partnership



Co-Benefits



Target
Timeline
Transparency
Together

BE CLIMATE READY,
DON'T BE A BIG WASTER!

Thank You

to work together to make this change.