

Assessing Green Management Practices in your Existing Buildings



28 August 2017

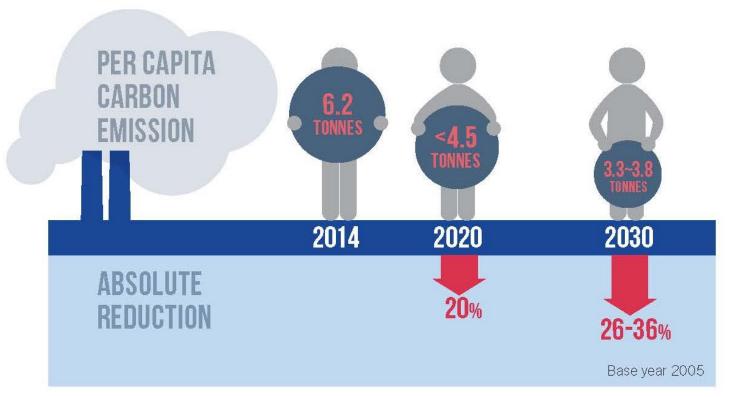
HONG KONG'S CLIMATE CLIMATE ACTION PLAN 2030+

January 2017

www.climateready.gov.hk

THE CARBON TARGET OF HONG KONG

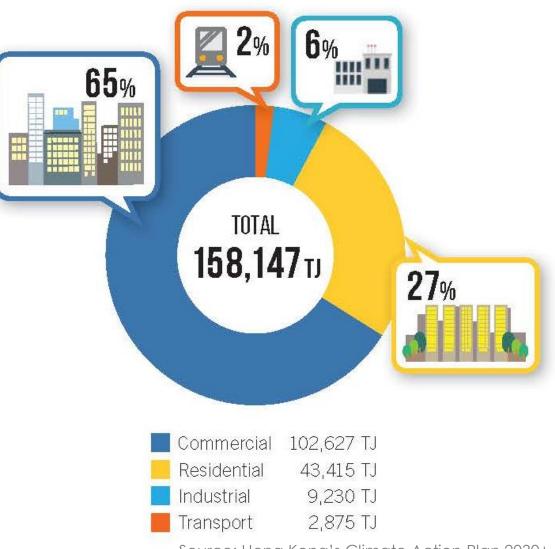
Hong Kong will reduce its carbon intensity by 65-70% by 2030 using 2005 as a base.



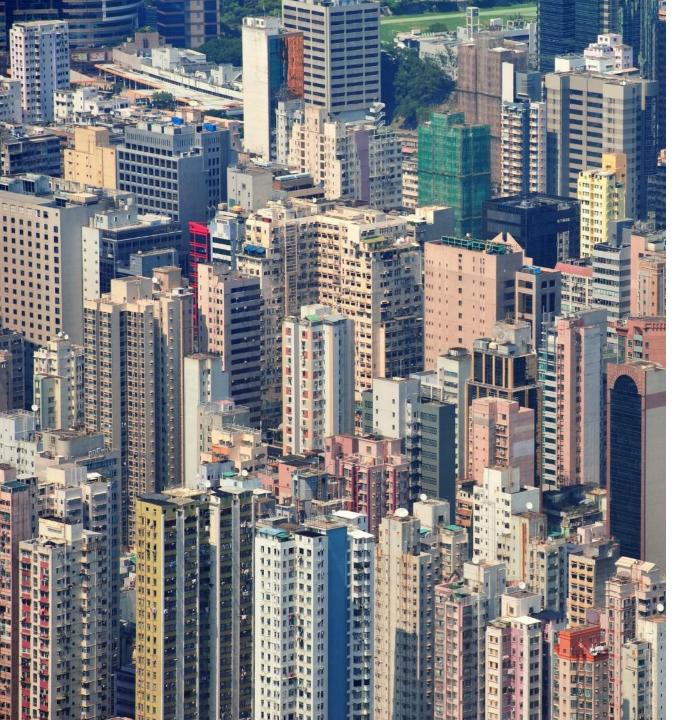
Source: Hong Kong's Climate Action Plan 2030+



ENERGY USE IN COMMERCIAL BUILDINGS



Source: Hong Kong's Climate Action Plan 2030+



AGEING BUILDING STOCK

42,000

private buildings

8,000 government structures

Copyright: rabbit75123 / 123RF Stock Photo

How does greening existing buildings tackle the challenges?



Upgraded version of BEAM Plus Existing Buildings V2.0

Assessing the actual environmental performance of your building

BEAM Plus Existing Buildings

Version 1.2



- Materials Aspects
 - Site Aspects
 - Energy Use
 - Water Use
- Indoor Environmental Quality
 - Innovations and Additions



Version 2.0

- Management
 New!
- New!
- Materials and Waste Aspects
 - Site Aspects
 - Energy Use
 - Water Use
- Indoor Environmental Quality
 - Innovations and Additions (For comprehensive scheme only)

















Comprehensive Scheme

Selective Scheme

Assessment of **ALL aspects** Target: Buildings <20 years old



Individual Aspect Assessment

Target: Buildings >20 years old





GREEN MANAGEMENT PRACTICES



Green Purchasing Plan

Endorsed green purchasing policy and reporting

Building Records

- Building, structural plans approved by Building Authority
 - Plumbing drawings
- Fire services installation plans
- Layout plans for utilities

Building and Site Operation and Maintenance

- Building maintenance
- External areas and facilities

Green Cleaning

Green cleaning procedures and practices



Building Services Operation and Maintenance

Air-conditioning system, lift/ escalator, electrical, lighting, plumbing and drainage

Renovation Management Plan

Renovation Management Plan Implementation



user guide to encourage and promote environmentally friendly activities







MATERIALS AND WASTE ASPECTS

Waste Recycling Facilities





- Use of Certified Green Products
 HKGBC's HK G-PASS
 - Food Waste Management
 - Waste Treatment Equipment









 $\overline{\bigcirc}$



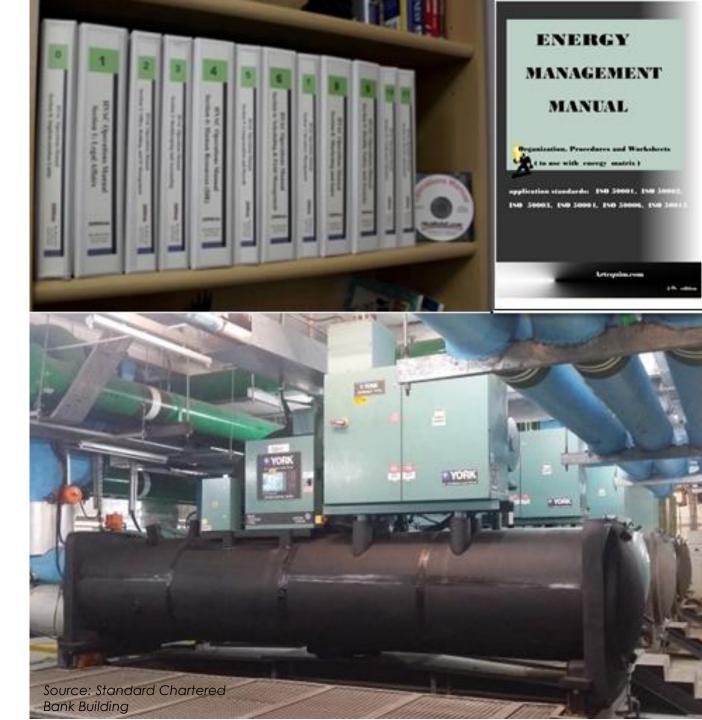






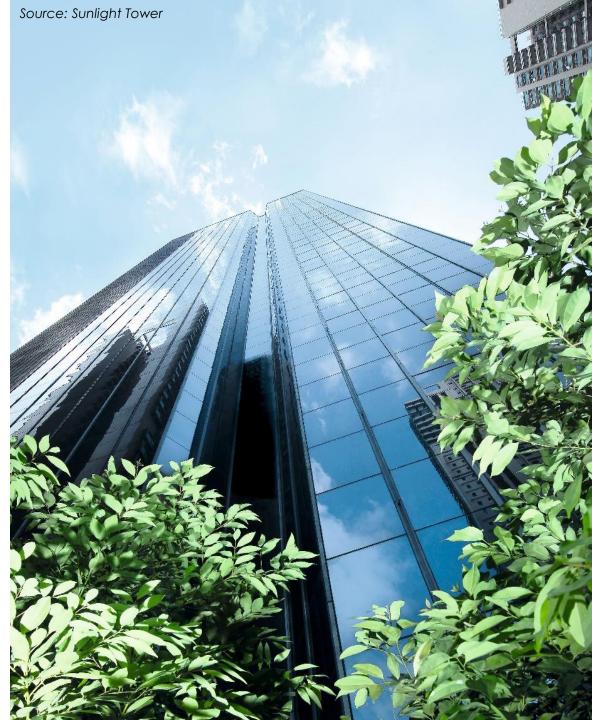
ENERGY U	S	E
-----------------	---	---

- Policy and management plan
 - Data collection and analysis
 - Energy and carbon audits
- Retro/on-going commissioning
 - Energy saving retrofit
 - **Benchmarking** EMSD Benchmarking tool HKGBC's BESTOF













- Water efficient devices: Water saving faucets with sensors, Dual flush water closets, etc.
 - Water use for irrigation
 - Water recycling
- Quality water supply scheme







INDOOR ENVIRONMENTAL QUALITY

- Ventilation
- Thermal comfort
- Sources of contamination and odours

- IAQ monitoring
- Interior lighting quality
 - Room acoustics
 - Noise isolation

MORE INNOVATIONS

Venues or Public Spaces for Environmental Programme

• Training, seminar, exhibition, workshop for tenants and public e.g. Urban farming

Engagement with Neighbourhoods

• Regular interactive workshop for building management and the community

Provision of Electrical Vehicle Charging Stations



Recognition and Appreciation Awarded from other organisations

Achievement of Hong Kong Green Organisation Certificattes





Comprehensive Scheme

Selective Scheme

Assessment of **ALL aspects** Target: Buildings <20 years old



Individual Aspect Assessment

Target: Buildings >20 years old





Comprehensive Scheme



Platinum







Silver

Bronze

Selective Scheme





60% - Very Good

70% - Excellent



(例)(例)(例)(例) EB V2.0 2017 MAA HKGBC BE向M Plus 級建環評

50% - **Good**

40% - Satisfactory

Know more about BEAM Plus EB V2.0: https://www.hkgbc.org.hk/eng/EB_Intro.aspx



BEAM Plus Existing Buildings V2.0 brings you benefits







