

# ECONOMY UPDATES

## Hong Kong, China

8 October 2021

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THE 57TH MEETING OF THE APEC EXPERT GROUP  
ON ENERGY EFFICIENCY & CONSERVATION

# HK will strive to achieve carbon neutrality before 2050



The Hong Kong Special Administrative Region of the People's Republic of China  
The Chief Executive's 2021 Policy Address

6 October 2021



Chapter VI  
Liveable City

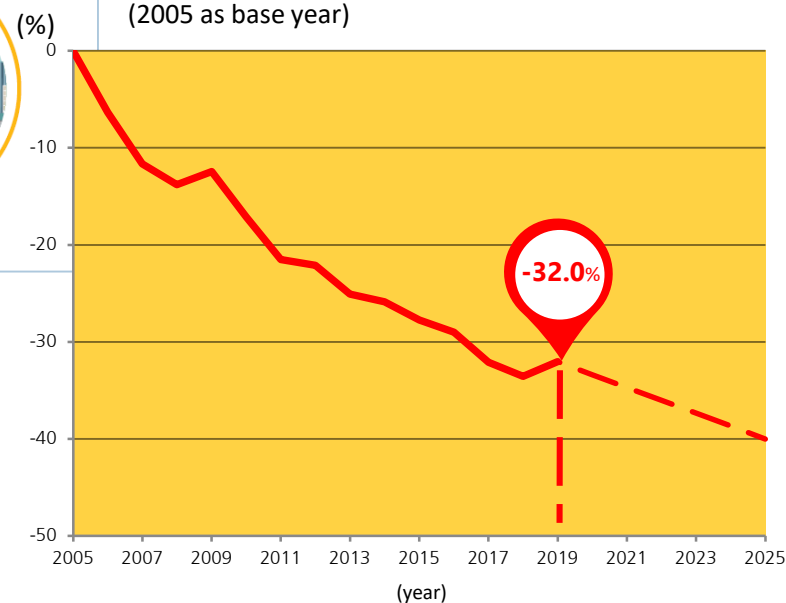


## ENERGY SAVING PLAN

For Hong Kong's Built Environment  
2015~2025+

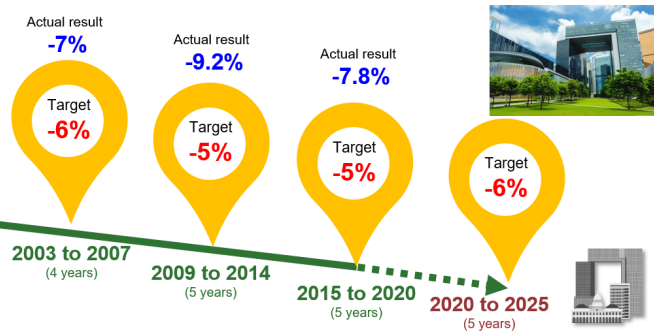
Environment Bureau in collaboration with  
Development Bureau  
Transport and Housing Bureau  
May 2015

Energy Intensity Target 2005-2025  
(2005 as base year)



(Source: Hong Kong Energy End-use Data 2021)

# Energy Efficiency and Conversation in Hong Kong



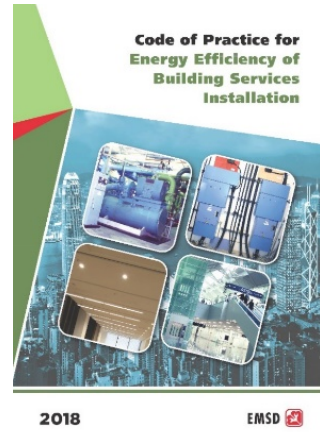
**Green Energy Target for Government Buildings and Infrastructures**



**District Cooling Systems (DCS)**

ENERGY LABEL 能源標籤	
more efficient 效益較高	Grade 1 級
1	
2	
3	
4	
5	
less efficient 效益較低	
Annual Energy Consumption (kWh/Cooling) 每年耗電量 (千瓦小時/冷噸)	420
Cooling Capacity (kW) 製冷量 (千瓦)	2.54
Refrigerant 製冷劑	R410A
Room Air Conditioner Brand 空調機品牌:	ABC 品牌
Model 型號:	HK1234
Reference Number / Year Information Provider 參考編號 / 年份: 資料提供者:	U1-C180123 / 2018 XYZ 建築
機電工程署 EMSD	

**Mandatory Energy Efficiency Labelling Scheme (MEELS)**

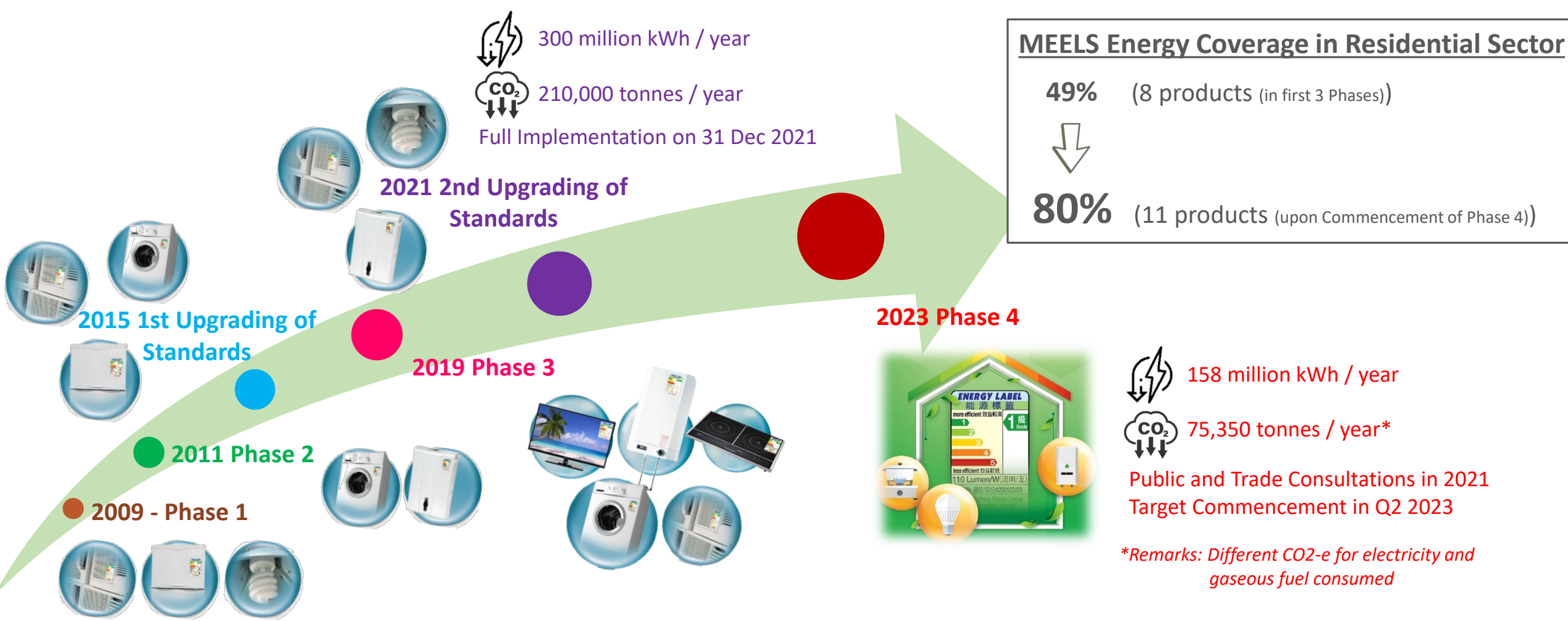


**Building Energy Efficiency Ordinance (BEEO)**

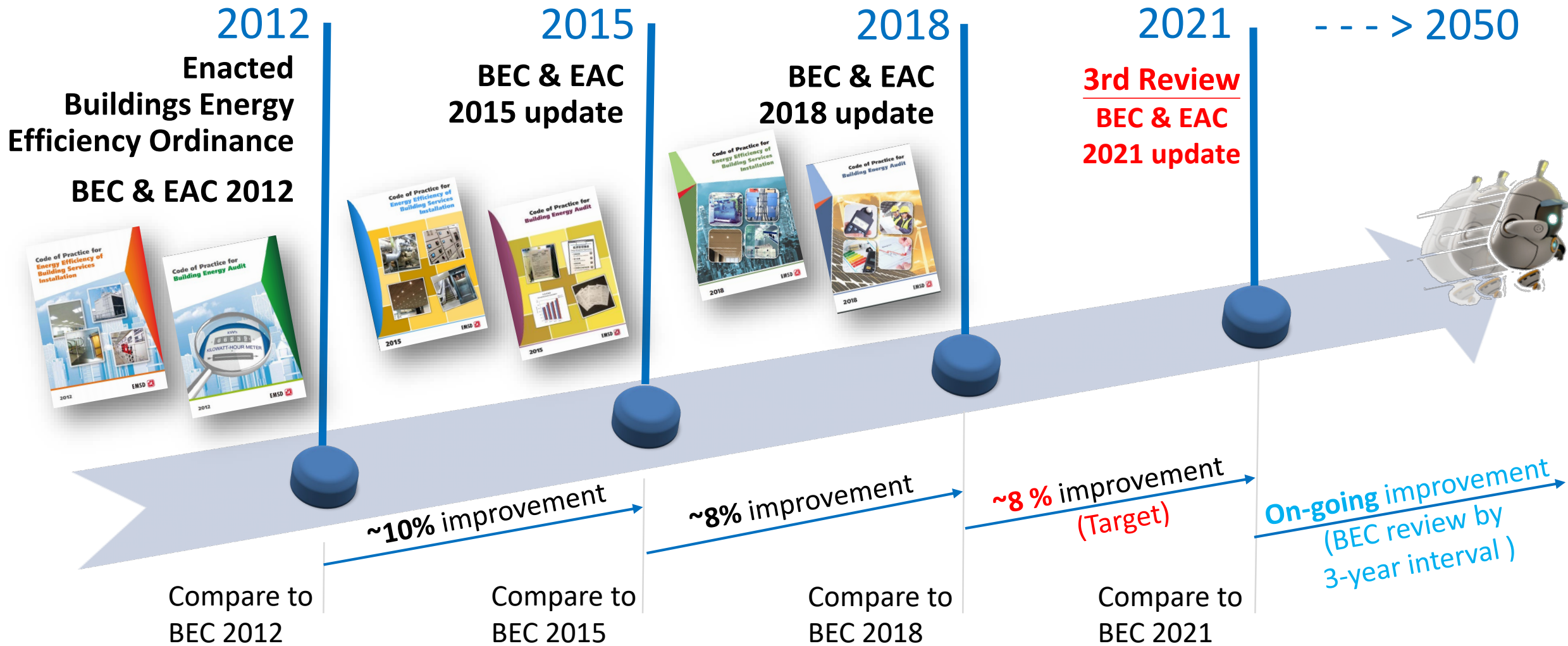


**Retro-commissioning (RCx)**

# Development of the Mandatory Energy Efficiency Labelling Scheme (MEELS)



# Building Energy Efficiency Ordinance and Energy Efficiency Registration Scheme for Buildings

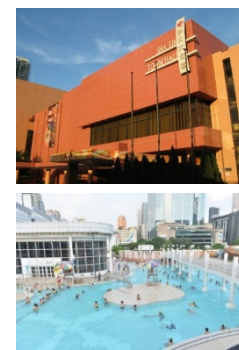
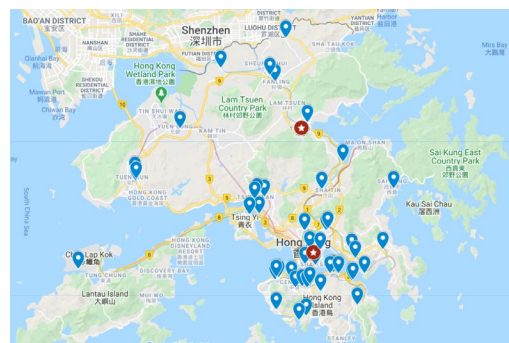
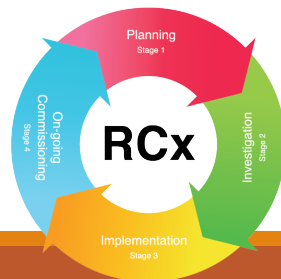


# Retro-commissioning for major government buildings

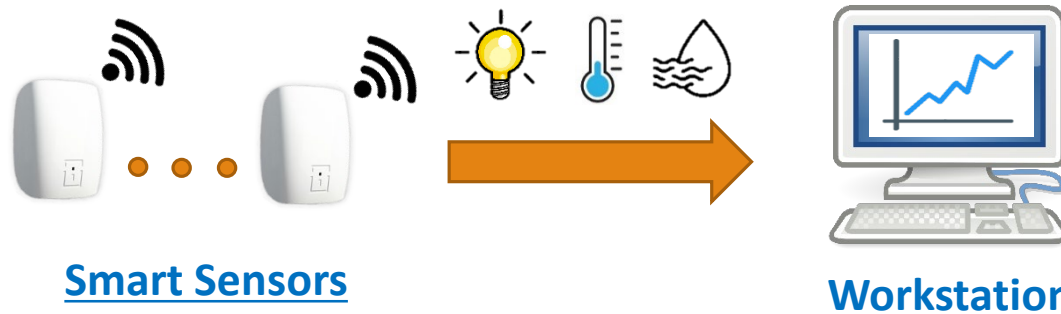
Existing buildings are often... Conduct RCx in suitable major government buildings



- Equipped with aging equipment
- Outdated building services system control
- High energy consumption
- unsatisfactory performance of systems



## Wireless data collection of room condition



## Awards & Results

AWARDS (ORGANISATION CATEGORY)	
Award	Name of Organisation
Hanson Grand RCx (Implementation) Award	Electric Tower
Outstanding RCx (Implementation) Award	One Island East
	One, Two Three Exchange Square and the Forum
	Pacific Place
Outstanding RCx (Proposal) Award	Gateway II
	Great Eagle Centre
RCx Continuous Enhancement Merit	Towngas Headquarters Building
	Lippo Centre
RCx Special Challenge Merit	Belilios Public School
RCx Technical Approach Merit	Three Garden Road
	Cathay City
RCx Merit Award	Mikki
	Ocean Centre
	Ocean Terminal Extension
	Sun Hung Kai Centre



# Collaboration for Promotion of Retro-commissioning in Greater Bay Area (GBA)

## Memorandum of Co-operation (MOC) in Guangdong-Hong Kong-Macao Greater Bay Area (GBA)



# Green Welfare Non-Government Organisations

**Beneficiary: 300 Welfare NGO premises**



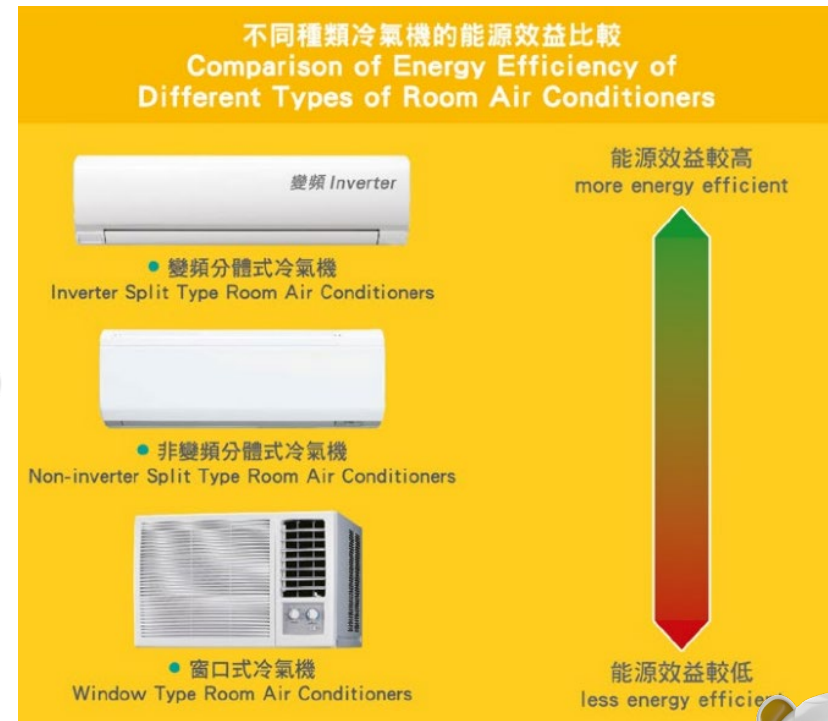
Energy Audit



ENERGY LABEL 能源標籤	
Brand 牌子	ABC 某某牌
Model 型號	HK1234
Annual Energy Consumption (kWh) Actual energy consumption depends on how the television is used. Based on 1400 hours' operation. 每年耗電量 (千瓦小時) 實際耗電量按乎電視機的使用方式，以每年使用1400小時計算。	123
Energy Efficiency Grade* 能源效益級別 *Among the five grades, Grade 1 is the most energy efficient. 在五個級別中，第一級為最優級。	1
Screen Size Measured Diagonally in cm (inch) 屏幕對角尺寸，以厘米 (英寸) 量度	102 (40)
EEL Registration Number 能源標籤登記號碼	TV11-0001

\*The data are provided according to the Hong Kong Energy Efficiency Labelling Scheme administered by the Electrical and Mechanical Services Department (EMSD), Government of the Hong Kong Special Administrative Region. The registration record can be found at the EMSD website at www.emsd.gov.hk.  
資料根據香港特別行政區政府工程署轄下的香港能源效益標籤計劃的規定列出。有關註冊記錄可查閱網址 www.emsd.gov.hk.\*

LED Lighting



Variable Speed Air-conditioner

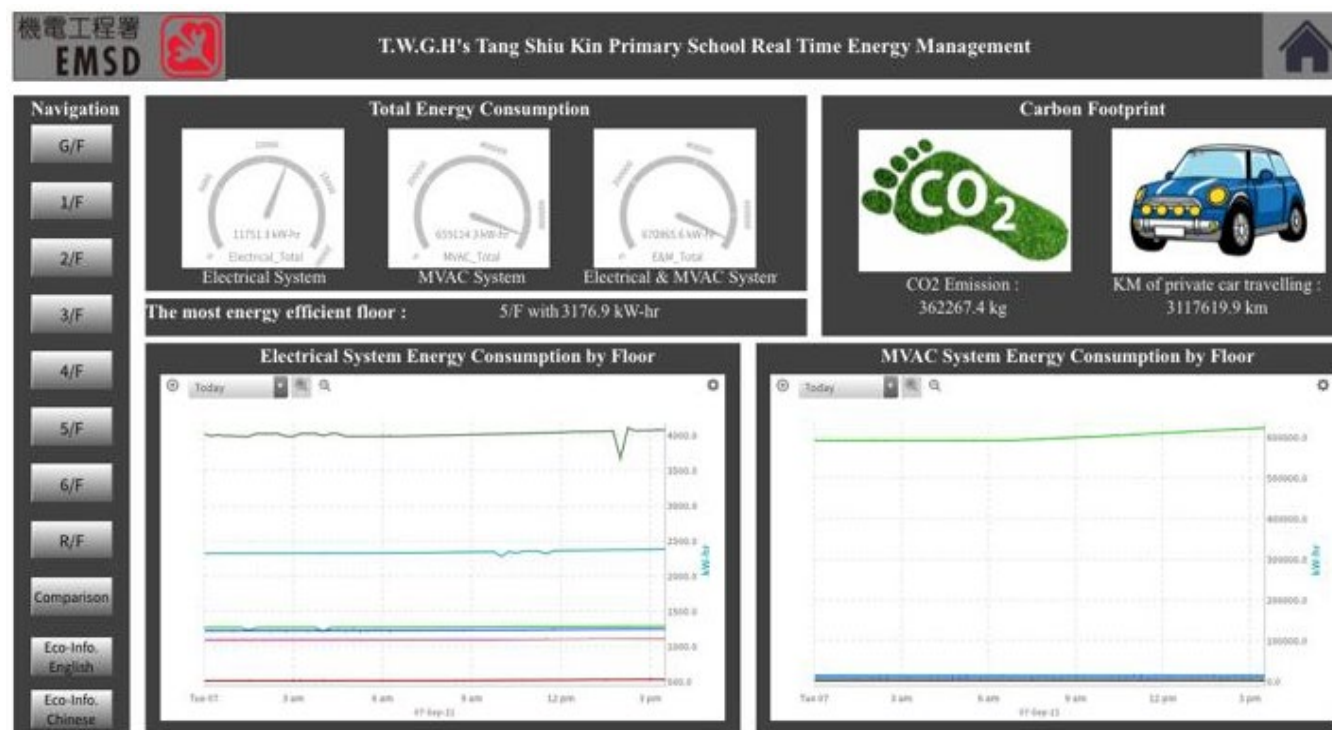




# “Green Schools 2.0” – Energy SMART

**綠色校園**  
Green Schools 2.0

Solar Harvest | Energy Smart | Food Wise | Recycle Clean | Green Prefect



**Non Profit-making & Non-Government Primary & Secondary Schools**

**Beneficiary: 300 Schools, over 100,000 students**



Green Tech Fund  
低碳綠色  
科研基金

WHAT'S NEW | ABOUT THE FUND | ADMINISTRATION OF APPROVED PROJECTS | GUIDES AND FORMS

DECARBONISATION & ENERGY SAVING

GREEN TRANSPORT  
WASTE MANAGEMENT  
AIR & WATER QUALITY

PRIORITY THEME

PRIORITY THEMES

Projects under priority themes will be accorded priority. The priority themes and examples for current round of application are:

Decarbonisation and Energy Saving

- Renewable Energy (RE)
- Energy Efficiency and Conservation
- Carbon Removal Technologies
- Hydrogen Economy

## E&M InnoPortal

Electrical and Mechanical Services Department (EMSD) launched the E&M InnoPortal which lists the service wishes of various government departments, public organisations and the E&M trades, and invites the I&T sector, including start-ups and universities to propose relevant I&T solutions for matching. For successfully matched I&T wishes and solutions, EMSD will carry out field trials in a bid to promote and drive the research & development and application of innovative technologies.



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# Thank You

