

HKGBC's Works on RCx / Retrofitting



[Eng](#) | [繁體](#) | [简体](#)

[Member Login](#)

[Introduction](#)

[What's New](#)

[Guidelines and Publication](#)

[Successful Cases](#)

[Development in GBA](#)

[Capacity Building](#)

[Resources](#)

[FAQ](#)

[Public Enquiry](#)

Smart Control for Air Conditioning Systems

The banner image shows a modern office interior with dark wood paneling and a glass partition. In the foreground, a hand holds a smartphone displaying a smart home control interface. The interface includes a house icon, weather information (32° Sunny, 1 Feb), and icons for a lock, Wi-Fi, and video call. White navigation arrows are visible on the left and right sides of the banner.

The building sector consumes approximately one-third of global primary energy. The energy and environmental performance of buildings for all their energy uses have to be revisited.

Building retrofitting is a form of technical intrusion in the energy system of a building to effectively utilize its energy. The aim of the chapter is to identify the optimal cost-effective energy-retrofitting strategy. A holistic retrofitting scenario has been considered that includes reduced energy consumption, cost savings, capital investments, emissions, technology behavioral change, and comfort indexing, along with sustainability concerns involving geometry and envelope construction.

Background

2016



MoC

2018-22



Retro-Commissioning
Significant Savings at Minimal Cost

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RCx Training and Registration Scheme



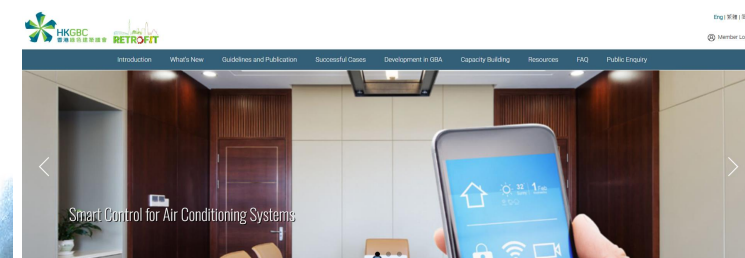
2023-24



**HKGBC
RETROFITTING
GUIDEBOOK**



2025



Retrofitting Hub



Retro-commissioning (RCx) Training and Registration Scheme

Training and Registration



Collaboration

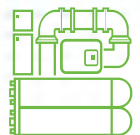


Pilot Projects

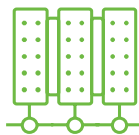


Retrofitting Guidebook

62 Strategies
and Expanding



Heating, Ventilation, and
Air Conditioning – Water-side



Server Room / Data Centre



Heating, Ventilation, and
Air Conditioning – Air-side



Carpark



Electrical Systems

- ❖ Lighting
- ❖ Electricity Distribution System
- ❖ Lift & Escalator



Green Commercial Kitchen



Smart Control Systems



Others

- ❖ Heating
- ❖ Building Envelope



HKGBC
RETROFITTING
GUIDEBOOK



First release | January 2023
Second edition | December 2023



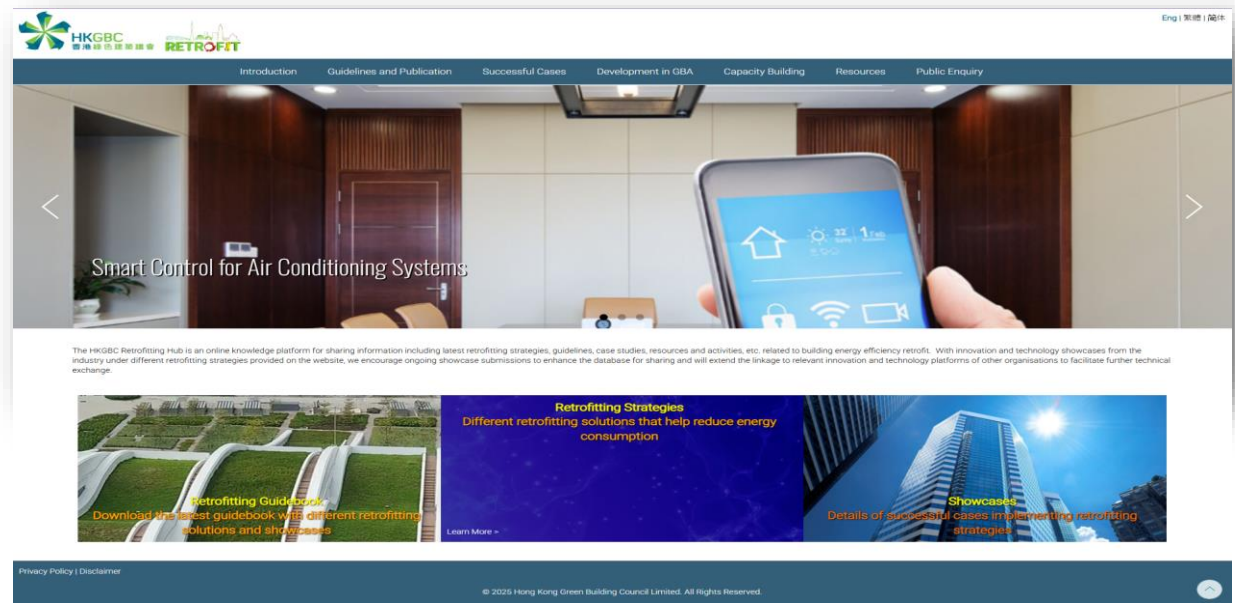
(2nd edition launched in Jan 2024)



Retrofitting Hub

An online platform to facilitate the industry to implement retrofitting for better operational performance in energy efficiency for their building stocks

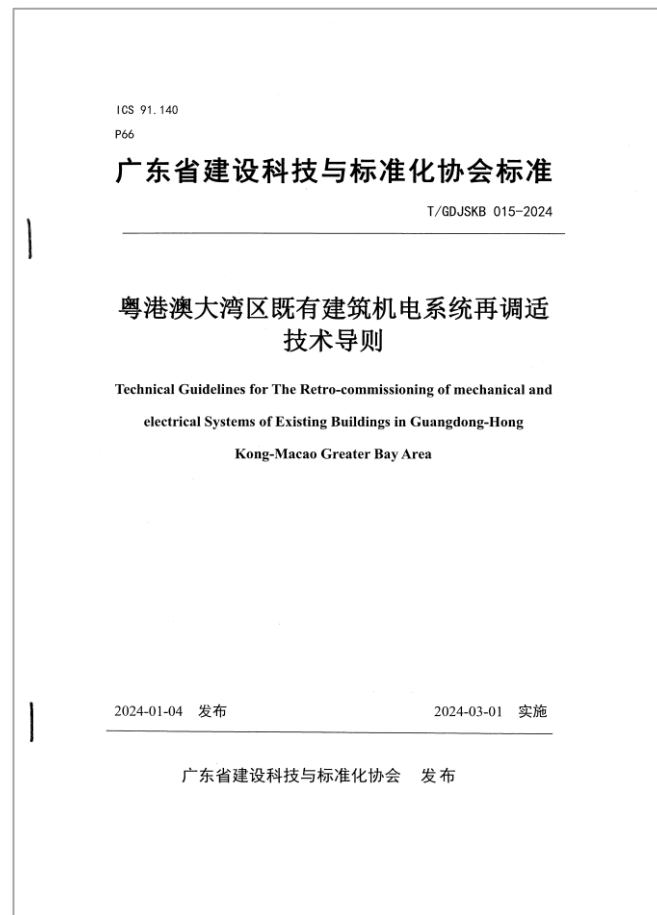
>50 Showcases
and Expanding!



(launched in May 2025)



Cooperation with the Greater Bay Area (GBA) Partners



粵港澳大灣區 建築物智能節能大賽

目標
鼓勵業界採用創新智能科技來進行重新校驗(再調適)及節能改造,提高粵港澳大灣區既有建築物的能源效益,響應國家實現碳中和目標。

關於比賽
— 屬建築類
所有於截止報名日期前已完成重新校驗(再調適)和/或節能改造的粵港澳大灣區建築物。
— 參賽對象
業主、物業管理公司、服務提供商均可參賽。如參賽機構並非建築物業主方,參賽前需獲得建築物業主方同意。
— 所有提交的參賽資料,可以部分輸入英文,但應以中文為主。

獎項

	粵、港、澳(個別地區)	粵港澳大灣區
創新科技類別	金、銀、銅及優異獎	大獎
最具成本效益類別	金、銀、銅及優異獎	大獎
可持續應用類別	金、銀、銅及優異獎	大獎

報名日期
01-04-2025 至 31-05-2025

比賽詳情
有關比賽詳情,請瀏覽網站
<https://iesc.hkgbc.org.hk>

查詢
@iesc@hkgbc.org.hk

下載網站使用說明書

主辦單位
粵港澳大灣區建築物重新校驗(再調適)及既有建築節能改造合作備忘錄合作機構

EMSD
BSOMES
HKGBC
SRIBS