HONG KONG

THE HONG KONG INSTITUTE OF ARCHITECTS - CPD SESSION

ArchSD's Carbon Neutrality Strategic Framework



NARN FROM NATURE

Hong Kong experienced the hottest Mid-Autumn Festival since records began in 1884 with temperatures hitting 35.7 degrees Celsius.

CARBON NEUTRALITY ROADMAP



Reduce Total Carbon emissions by 50% From the 2005 level

By 2050 Achieve carbon neutrality



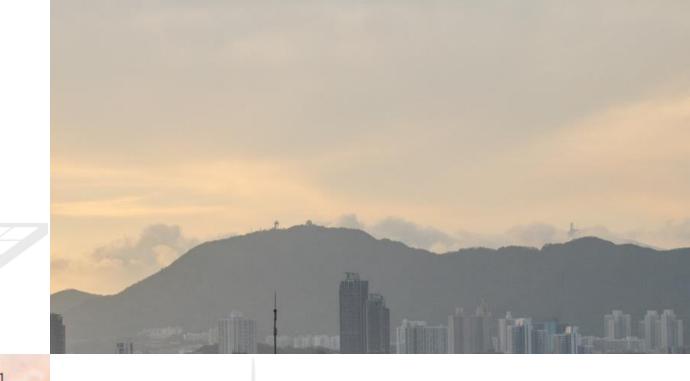
NET-ZERO ELECTRICITY GENERATION

G R E E N T R A N S P O R T









ENERGY SAVING AND GREENBUILDINGS





munn



Gold + Platinum

Platinum



584 million kWh saved 176,000 household annual consumption

636,000 cubic meter water saving

Olympic-size swimming poo



Build Beyond



3A STRATEGY

.

WE STRIVE TO DEVELOP AND LAY A SOLID FOUNDATION FOR A COMPREHENSIVE STRATEGY ON ADVANCING TO CARBON NEUTRALITY IN OUR SERVICES AND FACILITATE DEEP DECARBONISATION IN HONG KONG'S BUILT ENVIRONMENT.



IN I KIL

CARBON NEUTRALITY

....

10-



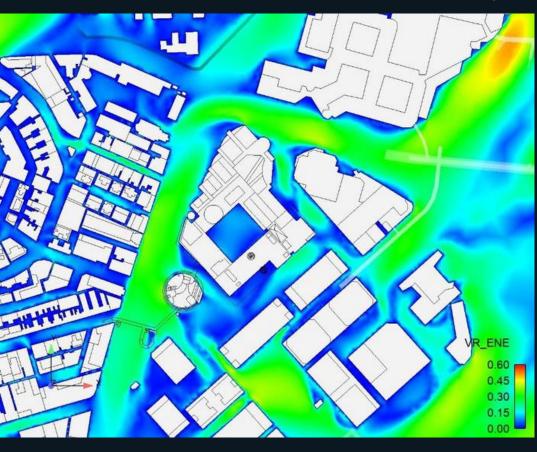
We go above and beyond statutory levels and green building industry standards. We adopt scientific approach in our integrated design to maximise decarbonisation benefits in our projects





Wind Analysis

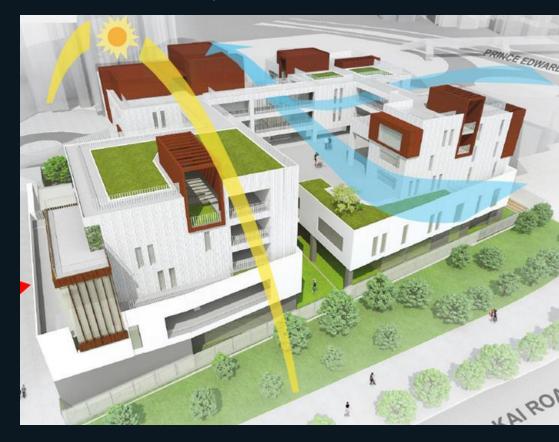
Lighting Analysis





Scientific Performance-based Integrated

Solar Path Analysis



Proactive Adoption of Renewable Energy Technologies

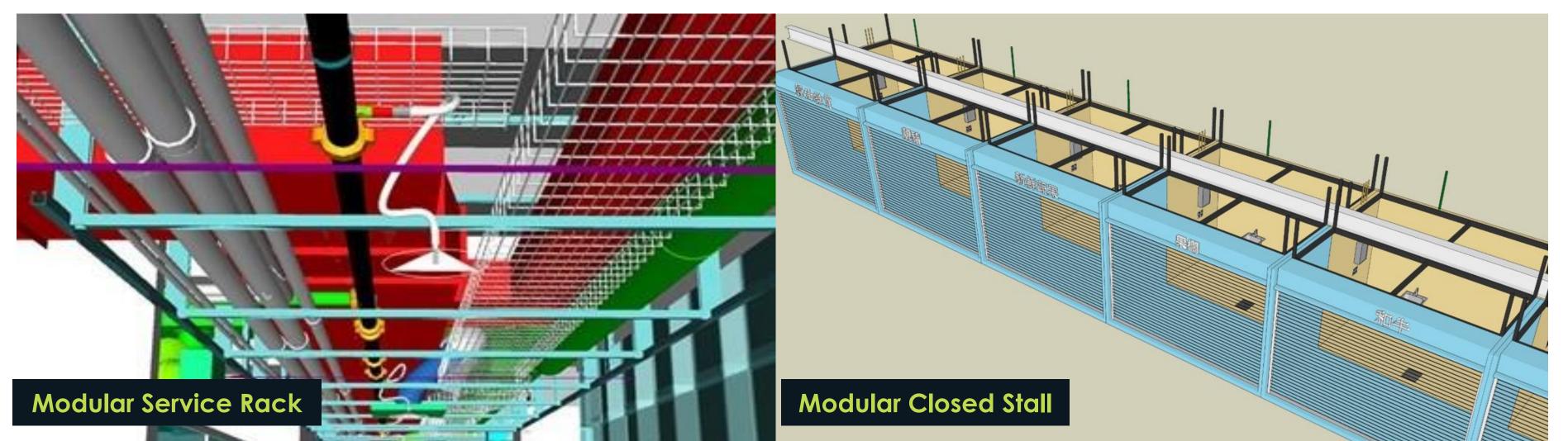


建築著 Architectural Services Department





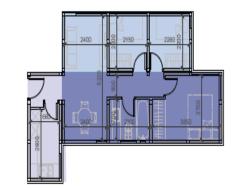
HIGH PRODUCTIVITY CONSTRUCTION TECHNOLOGIES



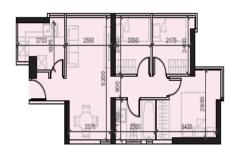


HIGH PRODUCTIVITY CONSTRUCTION TECHNOLOGIES

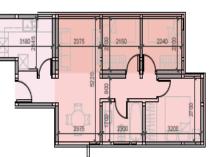


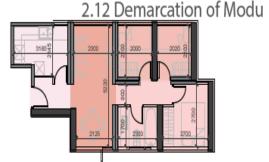






G-Grade Unit Type 1





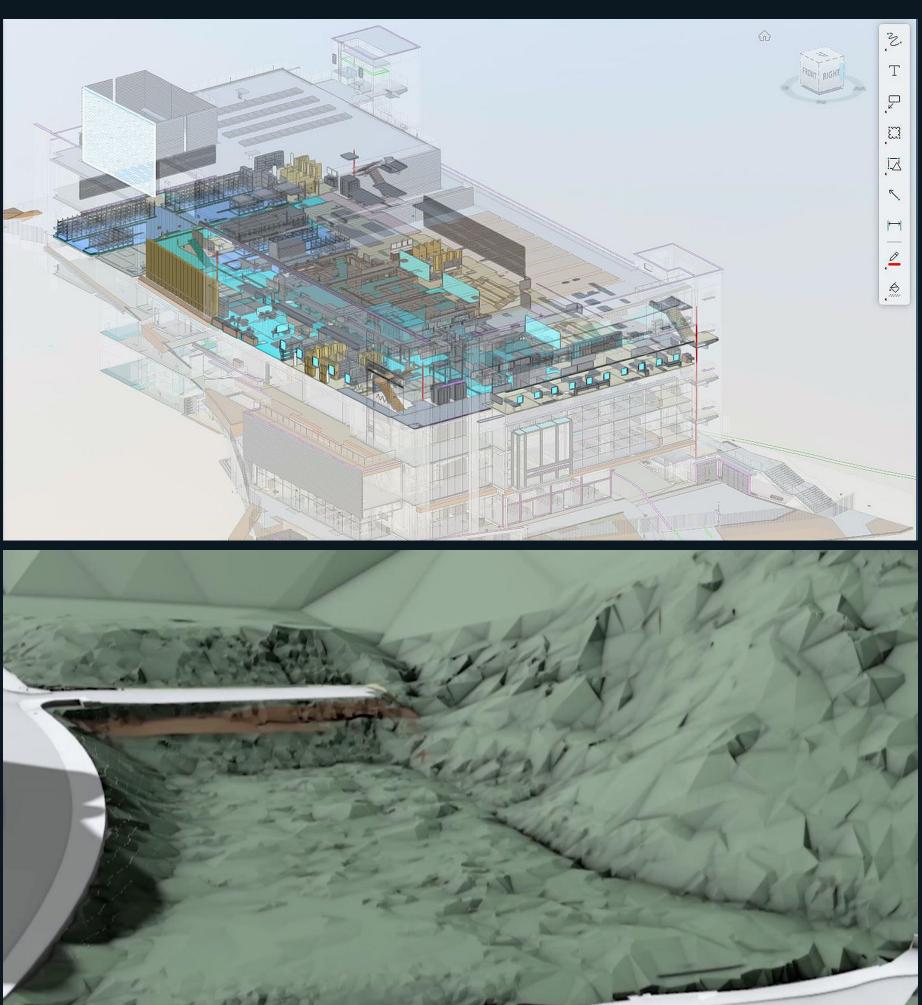


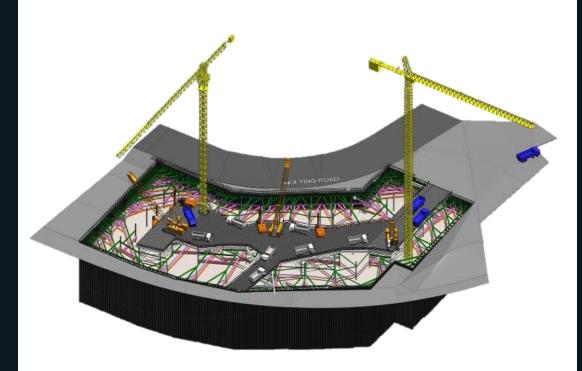
ACCELERATE

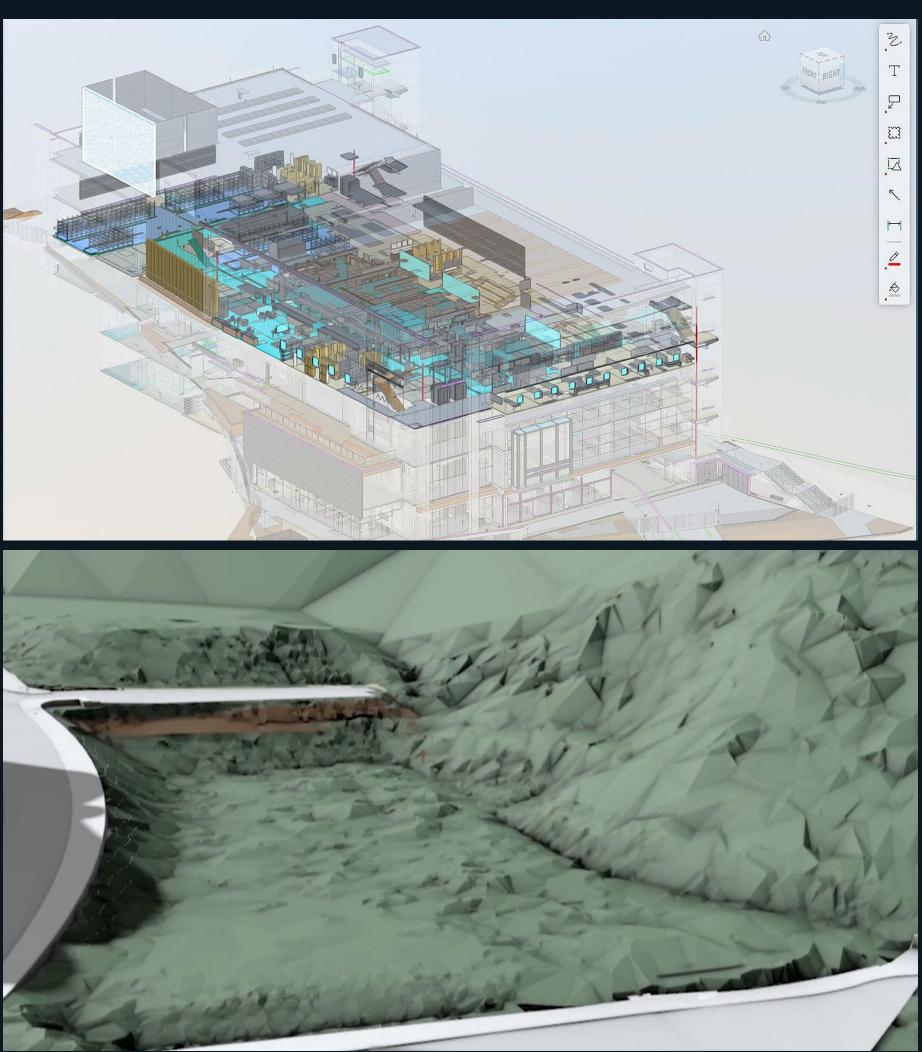
We utilise every improvement opportunity brought by green innovation development, striving to make breakthrough in various field to speed up the decarbonisation pace in our projects and services











BUILDING INFORMATION MODELLING

Recycled / Low Carbon materials

綠在灣仔 GREEN— WAN CHAI 回收環保站 | 8^{上午} - 8^{下午} Recycling Station | 曲 SELF-SERVICE



W

Recycled / Low Carbon materials

TOILET BLOCKS AT PET GARDEN OF CENTRAL & W



ACT TOGETHER

Achieving carbon neutrality in the built environment is a tremendous challenge for all yet it is possible when every one of us contribute to the vision



Meetings, Trainings, Conferences, Site Visits

-House Rules-

1. 有讚 方彈 2. 化難 為機

0



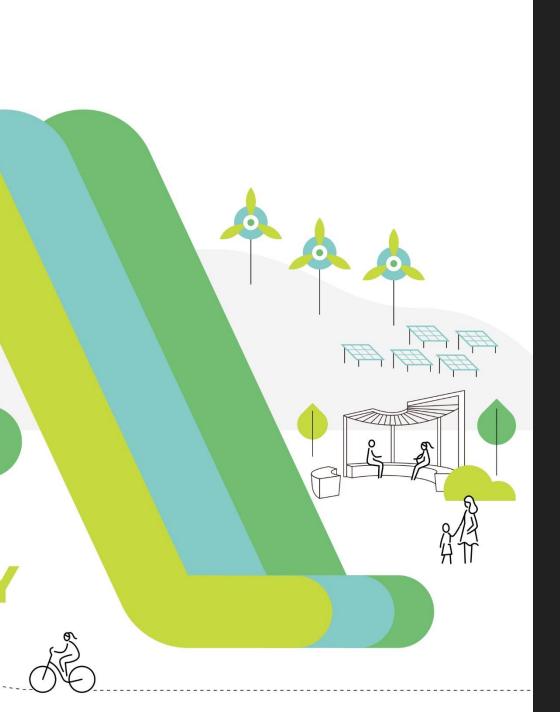
"Low Carbon Design and Construction in Government Building Projects" themed stakeholder engagement workshop in Oct 2023 DATCI



Launched in September 2024



CARBON NEUTRALITY STRATEGIC FRAMEWORK



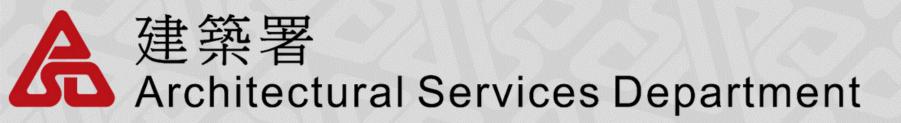


Quarry Park in Anderson



Chinese Medicine Hospital in Tseung Kwan O







tjø work together