

# Zero Carbon Park, Construction Industry Council



## Client

Construction Industry Council

## Location

Hong Kong

## Date of project

2023

## Key services provided

Development of Central Monitoring Dashboard Platform

## BRIEF

Opened in June 2012, the Construction Industry Council's (CIC) Zero Carbon Building (ZCB) is a pioneering project to showcase state-of-the-art zero carbon building technologies and raise community awareness of sustainable living in Hong Kong. The building goes beyond the traditional definition of zero carbon. It is connected to the local grid and produces on-site renewable energy, from a combination of photovoltaic panels and a biodiesel tri-generation system, to offset the power consumed on an annual basis.

## DESIGN APPROACH AND IMPLEMENTATION

Neuron team has been appointed to supply and implement a centralized monitoring dashboard platform for Construction Industry Council. It is a cloud-based platform which is interfaced with the building systems (e.g. BMS, CCTV, IoT, FM system, etc.) for reflecting the building's real-time status and the analytics results. A city-wide digital twins including 5 of the buildings under CIC is built up in this project to visualize the data and provide interactions between the users and the BIM models.

## SCOPE OF WORKS

- Digital Twins for 5 sites including Zero Carbon Park
- Analytics Dashboard Development
- Alarms and Notifications
- Rule Engine
- System Interfacing with BMS, IoT, CCTV, FM system, HKO, etc.
- Asset Management
- Preventive Maintenance