

BUILDING PROJECT LEADERSHIP IN SUSTAINABILITY CARBON PERFORMANCE



SAMWOH SMART HUB

Office Building

Green Mark Platinum Positive Energy

Project Team:

- Building Owner: Samwoh Corporation
- ESD Consultant: G-Energy Global Pte Ltd
- Architect: AC Consortium
- M&E: BELMACS Pte Ltd
- C&S: Engineers Alliance Pte Ltd
- Contractor: Hua Siah Construction Pte Ltd

Samwoh Smart Hub is the first positive energy building that produces more than what it utilises in Singapore.

To attain this status, several first-of-its-kind technologies were integrated to reduce the energy consumption as low as reasonably practicable while maximising the generation of renewable energy through the investments on high-yield photovoltaic cells.

In addition, green and sustainable materials developed in-house were used extensively to construct this building. Overall, Samwoh managed to lower the carbon footprint of the building by 580 kgCO₂/m² as compared to the Building and Construction Authority's (BCA) reference norm value of 1,000 kgCO₂/m² and produce 25% of energy surplus, avoiding 845 tonnes of operational carbon per year.