

Industry Practitioners Category

Young Practitioner

Outstanding Award

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Contract No.: SS K504 – Design and Construction of District Open Space, Sports Centre cum Public Vehicle Park at Sze Mei Street, San Po Kong

The proposed Open Space, Sports Centre cum Public Vehicles Park, contains an outdoor 7-a-side hard-surfaced soccer pitch, an outdoor basketball court and ancillary facilities and a 4-storey Sports Centre of superstructure works.

Summary of sustainable construction achievements:

- Solar power rest container
- Fog Cannon
- Wind Turbine



Sustainable Best Practice 1

The solar power rest container includes solar power systems to give electricity and amenities to on-site workers. Construction sites frequently lack access to the electricity grid, and establishing temporary facilities can be difficult and costly. In such cases, solar power rest containers provide an efficient option. Solar panels put on the container's roof catch sunlight and transform it into electricity. The solar panels' energy is stored in batteries, providing for a constant power supply even during periods of low sunlight.

Sustainable Best Practice 2

Fog Cannon for dust suppression Fog cannon is an automatically or manually activated device which the fog drives airborne dust particles to the ground and wets the surface to prevent fugitive dust particles, the throw ranges of fog cannon is approximately 30 meters. When the particulate matter exceed the limit level, the fog cannon will be initiated and start running automatically. More water saving when comparing with traditional water jet spraying for dust suppression at around 26L/min.



Sustainable Best Practice 3

Wind Turbine -utilising of wind turbine to offset a portion of the carbon emissions generated during construction activities. This helps reduce the overall carbon footprint of the project and contributes to sustainability goals. The wind turbine on construction site can serve as an educational tool, raising awareness about renewable energy and inspiring others to adopt sustainable practices. It can be a focal point for highlighting the importance of renewable energy and promoting sustainability within the construction industry.