

**Solar Energy South Africa**

# **Photovoltaic Panel Black King Kong**



## Overview

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Can Floating photovoltaic systems be used in Hong Kong's reservoirs?

In response, to promote the development of renewable energy, the Water Supplies Department (WSD) has undertaken studies and three pilot trials of floating photovoltaic (FPV) systems on the surfaces of Hong Kong's reservoirs.

What is solar energy used for in Hong Kong?

In Hong Kong, the primary use of solar energy is to provide hot water for facilities with heating demand or to generate electricity directly. Some small-scale photovoltaic and wind systems have been installed in remote areas to generate nominal electrical power for lighting and on-site data recording equipment.

Will large-scale FPV systems benefit Hong Kong?

In the longer term, the development of future large-scale FPV systems in Hong Kong will more predominantly be used to supply renewable energy to the local grid, providing a saving in the amount of power which would otherwise need to be generated from fossil fuels by the local energy supplier.

Where are FPV pilot systems utilised in Hong Kong?

3.5. Utilisation of generated renewable energy The renewable energy generated by the three FPV pilot systems in Hong Kong is fully utilised by nearby WSD facilities, namely Shek Pik Raw Water Pumping Station, and the air compressor houses of Plover Cove Reservoir and Tai Lam Chung Reservoir.

What are the guidance notes for solar PV systems?

This set of Guidance Notes provides general guidelines for intending purchasers, owners and installers of solar PV systems to understand the installation requirements and FiT application procedures associated with the installation, operation and maintenance of such systems.

What happens if crystalline silicon PV panels are damaged?

For the crystalline silicon PV panels envisaged to be adopted, semiconductor materials (such as silicon) and metals (such as copper, lead, aluminium, etc.) in the panels could potentially be released into the water if the panels are severely damaged.

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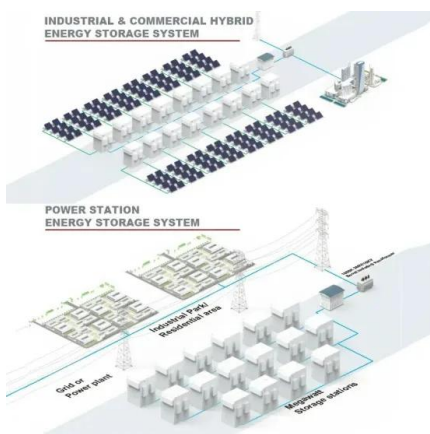


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### Recent Projects of Building Integrated Photovoltaic in Hong Kong

Kong, engineers have to consider a lot of variable factors such as local climate situation, property location, shadow profile, orientation of PV panels, panel configuration (type of wiring and/or ...



### Performance Evaluation of a Large Building Integrated Photovoltaic

2 of PV panels. It is the largest photovoltaic installations within the territory. It is also one of the largest in the Far East. It is uncommon to have such a large photovoltaic system installed in a ...

### GovHK: Installation of Renewable Energy Systems

This article provides general information on

installing solar photovoltaic (PV) system at your premises, connecting it to the grid and receiving FiT payment. What are the major hardware components of a solar PV system? Solar PV ...

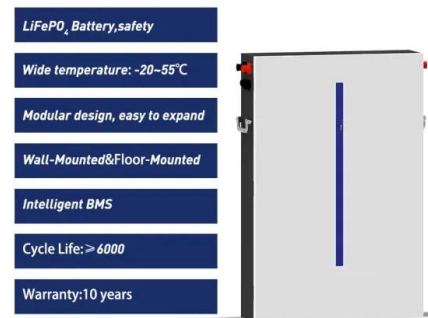


## OVERVIEW OF BUILDING INTEGRATED PHOTOVOLTAIC INSTALLATION IN HONG KONG

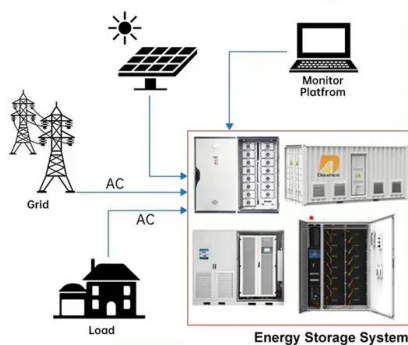
the Hong Kong's largest photovoltaic panel system comprising over 2,300 photovoltaic panels including BIPV (Fig. 1). The peak electricity generation rate can Fig. 1 PV panels & its ...

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## Floating solar panel farms tested on Hong Kong ...

HONG KONG SAR - The Water Supplies Department of Hong Kong has commissioned US consultancy Black & Veatch to carry out a feasibility study on floating solar panels on 17 water reservoirs. Two floating photovoltaic ...

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