

The Hong Kong Government published the Hong Kong's climate Action Plan 2030+ in 2017 and announced to reduce Hong Kong's carbon intensity by 65-70% by 2030 using 2005 as the base. This presentation briefs how the Government is promoting the adoption of more solar energy and the achievements so far. Besides, it also highlights the challenges ...

Currently the largest solar energy generation system in Hong Kong has been installed at Hong Kong Disneyland Resort. This system has a capacity of 3,050 kW, comprised over 7500 monocrystalline solar panels at mainly rooftop of over 40 buildings at the Resort.

Hong Kong's abundant solar energy and rooftop capacity are ideal for solar photovoltaic energy generation, a PolyU study has found. Solar panels with different energy conversion efficiency can be integrated into buildings without taking up additional land space.

"Installing and using solar photovoltaic power generation system in Hong Kong is a tall order due to the limited space and the numerous building regulations," says Professor Yang. "Nevertheless, the PolyU campus is an excellent location for BIPV application as there is plenty of sunshine without tall buildings around.

The Hong Kong University of Science and Technology (HKUST) today announced its latest commitment to being a sustainability leader in Hong Kong by launching a renewable energy project that will include the installation of up to 8,000 solar panels at over 50 locations on campus.

These projections account for 12.68%-16.32% of Hong Kong's total electricity consumption in 2022. This study underlines the substantial role of building-integrated solar PV systems in Hong Kong's transition towards a low-carbon future, offering valuable insights for policymaking and implementation strategies.

We have also found that out of the 309,000 buildings in Hong Kong, 233,000 are suitable for installing solar photovoltaic panels, with a total area amounting to 39km<sup>2</sup>. The potential annual solar energy output can reach 4,674 Gwh, or 10.7% of Hong Kong's energy consumption, reducing greenhouse gas emissions by three million tonnes.

According to statistics, poly-crystalline and mono-crystalline silicon solar PV panels are now dominating PV panel supply market for solar PV power generation projects in the world due to their cheaper prices, higher energy efficiency and reliable performance for power generation.

Where to install my solar PV system? The power output of a solar PV system will be affected by a series of factors including the location, orientation, solar irradiation, solar PV panel efficiency, the design and installation method of the ...



# Solar panel power generation Hong Kong

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Photovoltaic systems in Hong Kong can be classified into two main types - stand-alone systems and grid-connected systems. These can further be divided into ordinary photovoltaic systems and building-integrated photovoltaic (BIPV) systems.

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