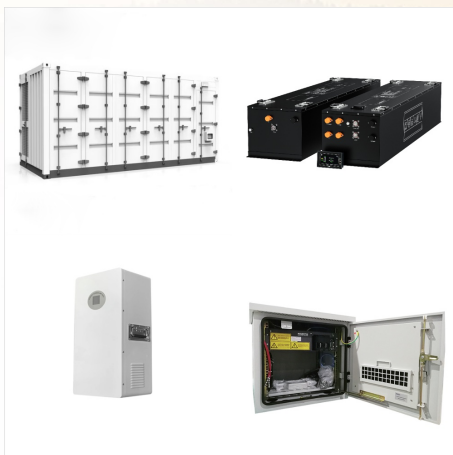
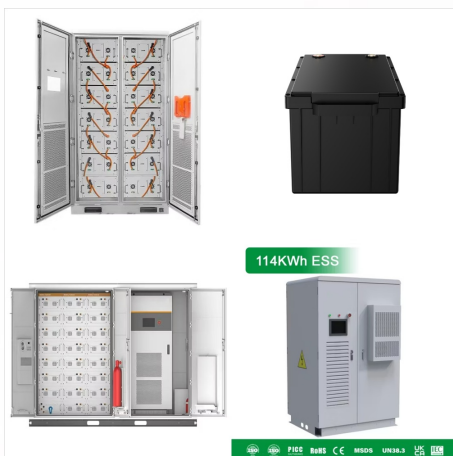




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The term building-applied photovoltaics (BAPV) is sometimes used to refer to photovoltaics that are retrofit ??? integrated into the building after construction is complete. Most building-integrated installations are actually BAPV. Some manufacturers and builders differentiate new construction BIPV from BAPV. [2] History.



This chapter presents a system description of building-integrated photovoltaic (BIPV) and its application, design, and policy and strategies. The purpose of this study is to review the deployment of photovoltaic systems in sustainable buildings. PV technology is prominent, and BIPV systems are crucial for power generation.

# BUILDING-INTEGRATED PHOTOVOLTAICS



As a working definition, "building-integrated photovoltaics (BIPV) is a renewable, solar PV technology that is integrated into buildings. It refers to solar PV components/modules that function as conventional building materials in the building envelope, such as the roof, skylights or facade elements [ 1 ].



The first building-integrated photovoltaic system (BIPV) in Hong Kong has been working successfully for three years, as remote system for the first year and grid-connected system in the last two years. A number of issues have been investigated on the experimental system including technical, economical, operation and management topics.



Building-Integrated Photovoltaics (BIPV) is an efficient means of producing renewable energy on-site while simultaneously meeting architectural requirements and providing one or multiple functions of the building envelope [1], [2].

# BUILDING-INTEGRATED PHOTOVOLTAICS



? 1/4 ?? 1/4 ? Building-integrated photovoltaics, BIPV? 1/4 ?, , , , , , , . [1] . ???



In addition to BIPV, building integrated photovoltaic/thermal systems (BIPV/T) provide a very good potential for integration into the building to supply both electrical and thermal loads. In this study, we comprehensively reviewed the BIPV and BIPVT applications in terms of energy generation amount, nominal power, efficiency, type and



Building integrated photovoltaics (BIPV) has enormous potential for on-site renewable energy generation in urban environments. However, BIPV systems are still in a relatively nascent stage with few commercial installations.