

BIPV Technology and Market Forecast (2009~2015)

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Abstracts

BIPV(Building Integrated Photovoltaic) is the efficient photovoltaic system because of the following two reasons. First, the solar module is integrated or used for exterior envelops of building as a material, securing economics of electricity. Second, BIPV has all short of high value-added such as esthetics. Therefore, integrated photovoltaic system is expected to have double effect to reduce installation cost since it has another function of material for exterior envelops of building including conventional function of generating electricity.

In addition, it is also more beneficial because the extra site to install is not necessary like the conventional stand-alone photovoltaic system. In particular country like Korea which is the limited land and densely populated area, that is very importance issue to adopt distributed power system such as BIPV.

As we all went through the global economic recession from the end of 2008 to the beginning of 2009, each government has recommended and given incentives for residential and commercial rooftop PV system. Recently, many countries are adopting FIT policy for BIPV in order to reduce energy consumption from residential and general buildings.

The worldwide BIPV installation market has grown by 48.7% to 270.1MW in 2010 from 181.6MW in 2009 with the BIPV support policies and its market trend. Its installation market is expected to be aggressively increased by more than 60% to 433MW compared to previous year as FIT support policy is implemented in France and Italy in 2011. In addition, it is expected that more countries would apply incentive policy for BIPV. As the BIPV applications are expanded to rooftops of large-sized warehouse, factory, parking lot, air-port and skyscraper as well as soundproof walls of highway. The market is expected to grow to 1.867.5MW which is 10times more than 2009.

Solar&Energy has released a report regarding BIPV Technology and Market Forecast(2009~2015), including following things

BIPV Outlook and Policies by Country

Solar Cell Technology and Building Integrated Technology for BIPV

Optical Performance Test and Certificate

BIPV's business trend and market forecast

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