

Global Building-Integrated Photovoltaic (BIPV) Market Research Report 2016

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Abstracts

This report studies Building-Integrated Photovoltaic (BIPV) in Global market, especially in North America, Europe, China, Japan, Taiwan and India, focuses on top manufacturers in global market, with capacity, production, price, revenue and market share for each manufacturer, covering

Suntech

Canadian Solar

Sunpower (Total)

Sharp

Yingli Green Energy

Almaden Europe

Bisol Group

Ertex Solar

Fully Green Power

Jingri Solar

RITEK

Rixin Solar

SinoSola

Solvis

TN Solar

Topsky

Heliene

Dell Solar

Ascent Solar

PolySolar

Market Segment by Regions, this report splits Global into several key Regions, with production, consumption, revenue, market share and growth rate of Building-Integrated Photovoltaic (BIPV) in these regions, from 2011 to 2021 (forecast), like

North America

China

Europe

Japan

Taiwan

India

Row

Split by Product Types, with production, revenue, price, market share and growth rate of each type, can be divided into

Crystalline Silicon

Amorphous Crystalline Silicon

Double Glass

Thin Film

Split by applications, this report focuses on consumption, market share and growth rate of Building-Integrated Photovoltaic (BIPV) in each application, can be divided into

Flat Roof BIPV

Pitched Roofs BIPV

Fade BIPV

Glazing BIPV

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1.1 Product Overview and Scope of Building-Integrated Photovoltaic (BIPV)

BIPV is the acronym for Building Integrated Photovoltaics which means the integration of photovoltaic materials into building structures such as roofs, windows and facades. It not only replaces the building supplies but also generate electricity creating a killer green product. This is one of the fastest growing segment in the solar industry and it has been estimated that almost 6-7% of the solar industry is made of BIPV products.

Figure Picture of Building-Integrated Photovoltaic (BIPV)

Source: QYR Energy Research Center, Dec. 2016

1.2 Building-Integrated Photovoltaic (BIPV) Segment by Types

1.2.1 Global Production Market Share of Building-Integrated Photovoltaic (BIPV) by Types in 2015

Figure Global Production Market Share of Building-Integrated Photovoltaic (BIPV) by Types in 2015

Source: QYR Energy Research Center, Dec. 2016

Table Classification of Building-Integrated Photovoltaic (BIPV)

Types

Feature

Description

1

2

3

Source: QYR Energy Research Center, Dec. 2016

1.2.2 Crystalline Silicon

Figure Product Picture of Crystalline Silicon

Source: QYR Energy Research Center, Dec. 2016

Table Major Manufacturers of Crystalline Silicon

Manufacturers

Location of Manufacturing Bases/Factories

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?

Source: Above Companies; QYR Energy Research Center, Dec. 2016

1.2.3 Amorphous Crystalline Silicon

Figure Product Picture of Amorphous Crystalline Silicon

Source: QYR Energy Research Center, Dec. 2016

Table Major Manufacturers of Amorphous Crystalline Silicon

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR Energy Research Center, Dec. 2016

1.2.4 Double Glass

Figure Product Picture of Double Glass

Source: QYR Energy Research Center, Dec. 2016

Table Major Manufacturers of Double Glass

Manufacturers

Location of Manufacturing Bases/Factories

1

2

3

?

Source: Above Companies; QYR Energy Research Center, Dec. 2016

1.2.5 Thin Film

Figure Product Picture of Thin Film

Source: QYR Energy Research Center, Dec. 2016

Table Major Manufacturers of Thin Film

Manufacturers

Location of Manufacturing Bases/Factories

1

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Source: Above Companies; QYR Energy Research Center, Dec. 2016

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1.3.1 Building-Integrated Photovoltaic (BIPV) Consumption Market Share by Applications in 2015

Table Building-Integrated Photovoltaic (BIPV) Consumption Market Share by Applications in 2015

Source: QYR Energy Research Center, Dec. 2016

Table Applications of Building-Integrated Photovoltaic (BIPV)

Applications

Feature

Description

1

2

3

Source: QYR Energy Research Center, Dec. 2016

1.3.2 Flat Roof BIPV

Flat Roof BIPV

Figure Flat Roof BIPV Examples

Source: QYR Energy Research Center, Dec. 2016

1.3.3 Pitched Roofs BIPV

Pitched Roofs BIPV

Figure Pitched Roofs BIPV Examples

Source: QYR Energy Research Center, Dec. 2016

1.3.4 Façade BIPV

Façade BIPV

Figure Façade BIPV Examples

Source: QYR Energy Research Center, Dec. 2016

1.3.5 Glazing BIPV

Glazing BIPV

Figure Glazing BIPV Examples

Source: QYR Energy Research Center, Dec. 2016

1.4 Building-Integrated Photovoltaic (BIPV) Market by Regions

1.4.1 North America Status and Prospect (2011-2021)

Figure North America Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

1.4.2 China Status and Prospect (2011-2021)

Figure China Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

1.4.3 Europe Status and Prospect (2011-2021)

Figure Europe Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

1.4.4 Japan Status and Prospect (2011-2021)

Figure Japan Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

1.4.5 Taiwan Status and Prospect (2011-2021)

Figure Taiwan Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

1.4.6 India Status and Prospect (2011-2021)

Figure India Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

1.4.7 Row Status and Prospect (2011-2021)

Figure Row Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

1.5 Global Market Size (Value) of Building-Integrated Photovoltaic (BIPV) (2011-2021)

Figure Global Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) and Growth Rate (2011-2021)

Source: QYR Energy Research Center, Dec. 2016

2 Global Building-Integrated Photovoltaic (BIPV) Market Competition by Manufacturers

2.1 Global Building-Integrated Photovoltaic (BIPV) Capacity, Production and Share by Manufacturers (2015 and 2016)

Table Global Building-Integrated Photovoltaic (BIPV) Capacity of Key Manufacturers (2015 and 2016)

Capacity?

2015

2016

Suntech

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Canadian Solar

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Sunpower (Total)

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Sharp

?

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Yingli Green Energy

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?

Total

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Source: Above companies; QYR Energy Research Center, Dec. 2016

Table Global Building-Integrated Photovoltaic (BIPV) Capacity Market Share of Key Manufacturers (2015 and 2016)

Capacity?

2015

2016

Suntech

?

?

Canadian Solar

?

?

Sunpower (Total)

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Sharp

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Yingli Green Energy

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Total

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Source: Above companies; QYR Energy Research Center, Dec. 2016

Figure Global Building-Integrated Photovoltaic (BIPV) Capacity of Key Manufacturers in 2015

Source: Above companies; QYR Energy Research Center, Dec. 2016

Figure Global Building-Integrated Photovoltaic (BIPV) Capacity of Key Manufacturers in 2016

Source: Above companies; QYR Energy Research Center, Dec. 2016

Table Global Building-Integrated Photovoltaic (BIPV) Production of Key Manufacturers (2015 and 2016)

Production?

2015

2016

Suntech

?

?

Canadian Solar

?

?

Sunpower (Total)

?

?

Sharp

?

?

Yingli Green Energy

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Total

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Source: Above companies; QYR Energy Research Center, Dec. 2016

Table Global Building-Integrated Photovoltaic (BIPV) Production Share by
Manufacturers (2015 and 2016)

Production Share

2015

2016

Suntech

?

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Canadian Solar

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Total

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Source: Above companies; QYR Energy Research Center, Dec. 2016

Figure 2015 Building-Integrated Photovoltaic (BIPV) Production Share by Manufacturers

Source: Above companies; QYR Energy Research Center, Dec. 2016

Figure 2016 Building-Integrated Photovoltaic (BIPV) Production Share by Manufacturers

Source: Above companies; QYR Energy Research Center, Dec. 2016

2.2 Global Building-Integrated Photovoltaic (BIPV) Revenue and Share by
Manufacturers (2015 and 2016)

Table Global Building-Integrated Photovoltaic (BIPV) Revenue (Million USD) by
Manufacturers (2015 and 2016)

Revenue?

2015

2016

Suntech

?

?

Canadian Solar

?

?

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?

Total

?

?

Source: Above companies; QYR Energy Research Center, Dec. 2016

Table Global Building-Integrated Photovoltaic (BIPV) Revenue Share by Manufacturers
(2015 and 2016)

Revenue Share?

2015

2016

Suntech

?

?

Canadian Solar

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Total

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Source: Above companies; QYR Energy Research Center, Dec. 2016

Table 2015 Global Building-Integrated Photovoltaic (BIPV) Revenue Share by

Manufacturers

Source: Above companies; QYR Energy Research Center, Dec. 2016

Table 2016 Global Building-Integrated Photovoltaic (BIPV) Revenue Share by Manufacturers

Source: Above companies; QYR Energy Research Center, Dec. 2016

2.3 Global Building-Integrated Photovoltaic (BIPV) Average Price by Manufacturers (2015 and 2016)

Table Global Market Building-Integrated Photovoltaic (BIPV) Average Price of Key Manufacturers (2015 and 2016)

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2015

2016

Suntech

?

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Canadian Solar

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Total

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Source: Above companies; QYR Energy Research Center, Dec. 2016

Figure Global Market Building-Integrated Photovoltaic (BIPV) Average Price of Key Manufacturers in 2015

Source: Above companies; QYR Energy Research Center, Dec. 2016

2.4 Manufacturers Building-Integrated Photovoltaic (BIPV) Manufacturing Base Distribution, Sales Area, Product Types

Table Manufacturers Building-Integrated Photovoltaic (BIPV) Manufacturing Base Distribution and Sales Area

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Manufacturing Base Distribution

Sales Area

Suntech

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Canadian Solar

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Source: Above companies; QYR Energy Research Center, Dec. 2016

Table Manufacturers Building-Integrated Photovoltaic (BIPV) Product Types

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Product Types

Suntech

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Canadian Solar

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Source: Above companies; QYR Energy Research Center, Dec. 2016

2.5 Building-Integrated Photovoltaic (BIPV) Market Competitive Situation and Trends?

2.5.1 Building-Integrated Photovoltaic (BIPV) Market Concentration Rate

2.5.2 Building-Integrated Photovoltaic (BIPV) Market Share of Top 3 and Top 5

Manufacturers

Figure Building-Integrated Photovoltaic (BIPV) Market Share of Top 3 Manufacturers

Source: Above companies; QYR Energy Research Center, Dec. 2016

Figure Building-Integrated Photovoltaic (BIPV) Market Share of Top 5 Manufacturers

Source: Above companies; QYR Energy Research Center, Dec. 2016

2.5.3 Mergers & Acquisitions, Expansion

3 Global Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue (Value) by Regions (2011-2016)

3.1 Global Building-Integrated Photovoltaic (BIPV) Capacity and Market Share by Regions (2011-2016)

Table Global Building-Integrated Photovoltaic (BIPV) Capacity by Regions (2011-2016)

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2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India
Row
ROW
Total
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Source: QYR Energy Research Center, Dec. 2016

Figure Global Building-Integrated Photovoltaic (BIPV) Capacity Market Share by Regions (2011-2016)

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2011
2012
2013
2014
2015
2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

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Source: QYR Energy Research Center, Dec. 2016

Figure Global Building-Integrated Photovoltaic (BIPV) Capacity Market Share by Regions (2011-2016)

Source: QYR Energy Research Center, Dec. 2016

Figure 2015 Global Building-Integrated Photovoltaic (BIPV) Capacity Market Share by Regions

Source: QYR Energy Research Center, Dec. 2016

3.2 Global Building-Integrated Photovoltaic (BIPV) Production and Market Share by Regions (2011-2016)

Table Global Building-Integrated Photovoltaic (BIPV) Production by Regions (2011-2016)

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2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

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Source: QYR Energy Research Center, Dec. 2016

Figure Global Building-Integrated Photovoltaic (BIPV) Production and Market Share by Regions (2011-2016)

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2011

2012

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2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

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Source: QYR Energy Research Center, Dec. 2016

Figure Global Building-Integrated Photovoltaic (BIPV) Production Market Share by Regions (2011-2016)

Source: QYR Energy Research Center, Dec. 2016

Figure 2015 Global Building-Integrated Photovoltaic (BIPV) Production Market Share by Regions

Source: QYR Energy Research Center, Dec. 2016

3.3 Global Building-Integrated Photovoltaic (BIPV) Revenue (Value) and Market Share by Regions (2011-2016)

Table Global Building-Integrated Photovoltaic (BIPV) Revenue by Regions (2011-2016)

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2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

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Source: QYR Energy Research Center, Dec. 2016

Table Global Building-Integrated Photovoltaic (BIPV) Revenue Market Share by Regions (2011-2016)

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2011

2012

2013

2014

2015

2016

North America

Europe

China

Japan

Taiwan

India

Row

ROW

Total

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Source: QYR Energy Research Center, Dec. 2016

Table 2015 Global Building-Integrated Photovoltaic (BIPV) Revenue Market Share by Regions

Source: QYR Energy Research Center, Dec. 2016

3.4 Global Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Global Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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2011

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2013

2014

2015

2016

Capacity

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Capacity Utilization Rate

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Gross Profit

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Gross Margin

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Source: QYR Energy Research Center, Dec. 2016

3.5North America Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

TableNorth America Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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2011

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2013

2014

2015

2016

Capacity

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Capacity Utilization Rate

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Gross Margin

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Source: QYR Energy Research Center, Dec. 2016

3.6 Europe Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Europe Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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2011

2012

2013

2014

2015

2016

Capacity

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Production

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Capacity Utilization Rate

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Gross Margin

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Source: QYR Energy Research Center, Dec. 2016

3.7 China Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table China Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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2013

2014

2015

2016

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Production

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Capacity Utilization Rate

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Source: QYR Energy Research Center, Dec. 2016

3.8 Japan Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Japan Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue,

Price and Gross Margin (2011-2016)

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2011

2012

2013

2014

2015

2016

Capacity

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Production

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Capacity Utilization Rate

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Gross Margin

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Source: QYR Energy Research Center, Dec. 2016

3.9 Taiwan Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Taiwan Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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2015

2016

Capacity

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Production

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Capacity Utilization Rate

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Gross Margin

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Source: QYR Energy Research Center, Dec. 2016

3.10 India Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table India Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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2011

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2014

2015

2016

Capacity

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Production

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Capacity Utilization Rate

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Gross Profit

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Gross Margin

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Source: QYR Energy Research Center, Dec. 2016

3.11 Row Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

Table Row Building-Integrated Photovoltaic (BIPV) Capacity, Production, Revenue, Price and Gross Margin (2011-2016)

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2011

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2015

2016

Capacity

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Production

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Capacity Utilization Rate

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Gross Margin

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Source: QYR Energy Research Center, Dec. 2016

4 Global Building-Integrated Photovoltaic (BIPV) Supply (Production), Consumption, Export, Import by Regions (2011-2016)

4.1 Global Building-Integrated Photovoltaic (BIPV) Consumption by Regions (2011-2016)

Table Global Building-Integrated Photovoltaic (BIPV) Consumption Market by Regions
(2011-2016)

?
2011
2012
2013
2014
2015
2016
North America
Europe
China
Japan
Taiwan
India
Row
ROW
Total

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Source: QYR Energy Research Center, Dec. 2016

Table Global Building-Integrated Photovoltaic (BIPV) Consumption Market Share by
Regions (2011-2016)

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2011
2012
2013
2014
2015
2016
North America
Europe
China
Japan
Taiwan

India

Row

ROW

Total

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Source: QYR Energy Research Center, Dec. 2016

Figure Global Building-Integrated Photovoltaic (BIPV) Consumption Market Share by Regions (2011-2016)

Source: QYR Energy Research Center, Dec. 2016

Figure 2015 Global Building-Integrated Photovoltaic (BIPV) Consumption Market Share by Regions

Source: QYR Energy Research Center, Dec. 2016

4.2North America Building-Integrated Photovoltaic (BIPV) Production, Consumption, Export, Import by Regions (2011-2016)

TableNorth America Building-Integrated Photovoltaic (BIPV) Production, Consumption, Import & Export (2011-2016)

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2011

2012

2013

2014

2015

2016

Production

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Consumption

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Source: QYR Energy Research Center, Dec. 2016

4.3 Europe Building-Integrated Photovoltaic (BIPV) Production, Consumption, Export, Import by Regions (2011-2016)

Table Europe Building-Integrated Photovoltaic (BIPV) Production, Consumption, Import & Export (2011-2016)

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2011

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2014

2015

2016

Production

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Consumption

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Source: QYR Energy Research Center, Dec. 2016

4.4 China Building-Integrated Photovoltaic (BIPV) Production, Consumption, Export, Import by Regions (2011-2016)

Table China Building-Integrated Photovoltaic (BIPV) Production, Consumption, Import & Export (2011-2016)

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2011

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2015

2016

Production

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Consumption

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Source: QYR Energy Research Center, Dec. 2016

4.5 Japan Building-Integrated Photovoltaic (BIPV) Production, Consumption, Export, Import by Regions (2011-2016)

Table Japan Building-Integrated Photovoltaic (BIPV) Production, Consumption, Import & Export (2011-2016)

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2011
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2013
2014
2015
2016

Production

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Export

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Consumption

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Source: QYR Energy Research Center, Dec. 2016

4.6 Taiwan Building-Integrated Photovoltaic (BIPV) Production, Consumption, Export, Import by Regions (2011-2016)

Table Taiwan Building-Integrated Photovoltaic (BIPV) Production, Consumption, Import & Export (2011-2016)

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2011
2012
2013
2014
2015
2016

Production

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Import

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Export

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Consumption

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Source: QYR Energy Research Center, Dec. 2016

4.7 India Building-Integrated Photovoltaic (BIPV) Production, Consumption, Export, Import by Regions (2011-2016)

Table India Building-Integrated Photovoltaic (BIPV) Production,

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