

## **Power Conditioner Market for Renewable Energies in Japan: Key Research Findings 2014**

### **◆ Research Outline**

**Yano Research Institute has conducted a research on the domestic power conditioner market for renewable energies with the following conditions:**

1. Research period: January to March, 2015
2. Research target: Manufacturers and sellers of power conditioners for renewable energy
3. Research methodologies: Face interviews by the expert researchers, surveys via telephone and email, and literature research.

#### **<What is the Power Conditioner for Renewable Energy Market? >**

A power conditioner for renewable energy in this research indicates a device that converts power generated by a renewable-energy battery (such as a solar battery) into something available to use in a house and other places. This research is intended for power conditioners for electricity generation systems (both for household and for industry) using solar power, wind power, fuel batteries or storage batteries.

### **◆ Key Findings**

#### **■ Power Conditioner Market for Renewable Energies for FY2015 Projected to Attain 119.5% of Size of Preceding Year**

With launch of the feed-in tariff system for renewable energies the demands for photovoltaic systems are soaring. This led the power conditioner market for renewable energies in FY2013 to attain 192.2 billion yen, 181.9% of the size of the previous fiscal year, based on the shipment value of manufacturers. The market is likely to continue expanding in FY2014, though the growth rate may slow down a little to achieve 229.7 billion yen, or 119.5% of the size of the preceding year. This owes to rapid growth in the power conditioners for industrial purposes, especially those for mega solar and for low-voltage grid applications.

#### **■ Efforts of Adding Values to Power Conditioners Continue**

Although competition of attaining higher conversion efficiency and lower prices has begun reaching the limit, various attempts have continuously been made to add further values to power conditioners. Among various methods to add values to power conditioners, their aim is not confined to improving of a single power conditioner, but to scale down the cost and size of the energy generation systems as a whole, including the implementation costs, in order to minimize the labor and costs for operations. Therefore, diversification of methods to add values is likely to accelerate further.

#### **■ Market Forecast: Power Conditioner Market for Renewable Energy May Began Declining from FY2017**

Photovoltaic systems are expected to stably increase implementation in FY2015 and beyond, after which they are likely to enter somewhat declining period for a while. Therefore, it is said to be certain that the power conditioner market for renewable energies will quiet down in the next

few years, though it may be temporarily. The market is expected to exceed the results of the previous year until FY2016, and turn to a declining tendency from FY2017. Therefore, the power conditioner market for renewable energies for FY2017 is foreseen to end up at 215.1 billion yen, 89.0% of the size of the preceding year, based on the shipment value of manufacturers. Note that any factors to raise demands of power conditioners for renewable energies other than PV systems are unknown.

◆ **Report format:**

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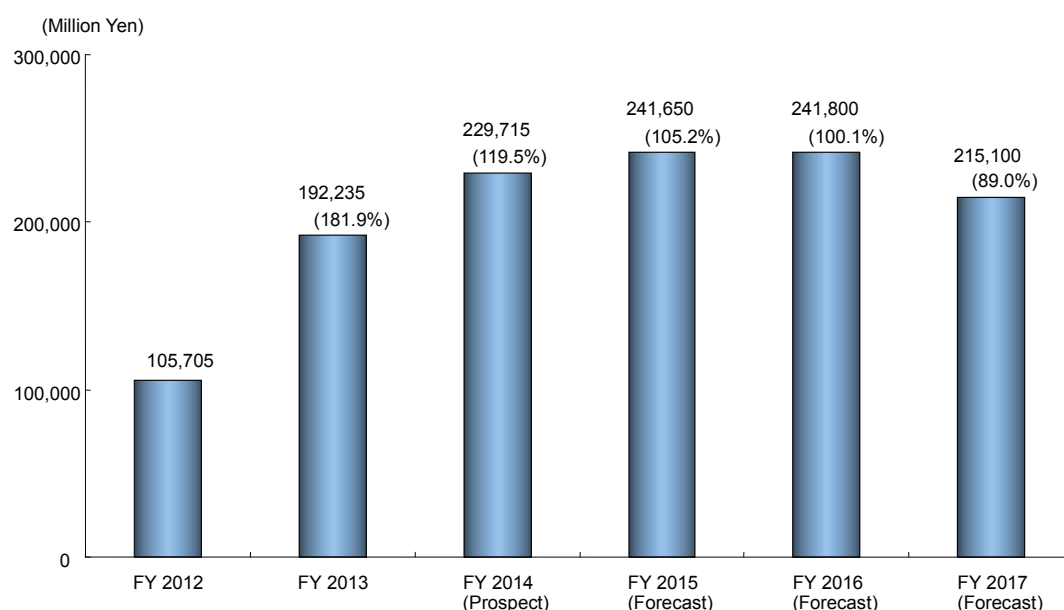
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■ **Figure 1: Transition and Forecast of Power Conditioner Market for Renewable Energies**



Notes:

1. The market size is calculated based on the shipment value of manufacturers.
2. The market size includes domestic shipment, excluding exported shipment.