

## PCS (Power Conditioning System) Market for New Energies in Japan: Key Research Findings 2017

### ◆ Research Outline

Yano Research Institute has conducted a research on the domestic PCS power conditioning system market for new energies with the following conditions:

1. Research period: April to July, 2017
2. Research target: Domestic manufacturers and distributors of power conditioners, and related organizations
3. Research methodologies: Face-to-face interviews by the expert researchers, surveys via telephone and email, and literature research

#### <What is the PCS (Power Conditioning System) Market for New Energies? >

A power conditioner or PCS (power conditioning system) for new energies in this research is intended for electricity generation systems (both for household and for industry) using solar power, wind power, fuel batteries or storage batteries. The market size in this research does not include those that are sold (exported) overseas directly from the makers. Also, the market size in this research includes only PCS themselves, so that no sales of peripheral devices, installation work fees, and maintenance fees are included.

### ◆ Key Findings

#### ■ PCS (Power Conditioning System) Market for New Energies in FY2016 Shrank by 28.3% on Y-to-Y Basis to End Up With 128.465 Billion Yen

The market of PCS (power conditioning systems) for new energy in FY2016, based on the shipment value at manufacturers, has largely scaled down by 28.3% from the previous fiscal year to end up with 128.465 billion yen. The market has shifted to declining tendency, though the market size in FY2017 is projected to decrease only slightly by 0.8% to attain 127.390 billion yen.

#### ■ With Stronger Demand of Lower-Priced PCS, Adoption of Multiple Interconnected Mid-Size PCS Likely to Increase

In association of shrinking demand of mega solar power plants, and more demand of PCS to be lower priced because of depression of FIT, large power conditioning systems with high voltage or special-high voltage of 100kW or more for photovoltaic systems are likely to be replaced progressively by multiple, interconnected mid-size PCS with their voltage ranging between 10 and 100kW.

#### ■ PCS Market for New Energies in FY2020 Projected to Decline to 63 Billion Yen

The domestic PCS market for new energy that largely depends on FIT demand is expected to decline in FY2018 and beyond, because the demand of industrial photovoltaic systems that had driven the market is likely to taper off. Although the demand for replacement of home-use power conditioners can be expected now that the 10 years of FIT period is to be ended, the market decline cannot be overcome just by the home-use systems. Size of the domestic PCS

market for new energies in FY2020 is projected to scale down to 63 billion yen, based on the shipment value at manufacturers.

◆ **Report Format:**

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Price: 150,000 yen (The consumption tax shall additionally be charged for the sales in Japan.)

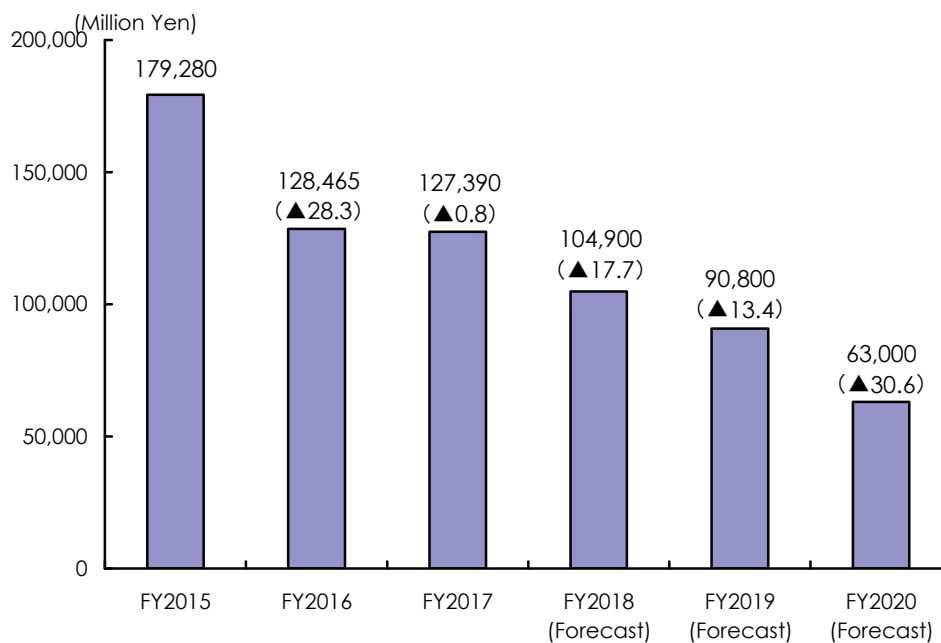
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■ **Figure 1: Transition and Forecast of PCS (Power Conditioning System) Market for New Energies**



Calculated by Yano Research Institute

Notes:

1. The market size is calculated based on the shipment value of manufacturers.
2. The market size in this research does not include those that are sold (exported) overseas directly from the makers. Also, the market size in this research includes only PCS themselves, so that no sales of peripheral devices, installation work fees, and maintenance fees are included.