

Creation of renewable energy based society in Japan - PV planning for 100 years

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Abstract

Series of nuclear accidents at Fukushima Daiichi has brought new opportunities in Japan's energy policies. Feed-in Tariff system, which introduced after one year of the accident, provided the scene of a large leap of solar power, achieved 7GW and 9GW in 2013 and 2014 respectively. Around 80GW of PVs has registered and 40GW of registered plants has contracted with utilities. JPEA has a target of 100 GW of PVs in 2030. However, there are big challenges for sustainable growth of PVs for 100 years. One is the PV industry itself faces, to continue the FiT system but in efficient manner. Another is to design energy system for the entire country to position renewables as a main source of power. Both two points are suggesting the need to learn international experiences in Japan.