

# RTS annual report

## “Forecasting PV installed capacity in Japan toward FY 2030/2050” (2019 - 2020 Edition)

(Published in December 2019)

In the Fifth Strategic Energy Plan formulated in 2018, making renewable energy a mainstream power source is included and the direction of PV to assume part of the responsibility for energy supply is clarified. While the Feed-in Tariff (FIT) program has contributed to the rapid launch of the industrial PV market, various distortions were generated, and corrections were made accordingly through revisions of the FIT program, etc. In the industry, additional expansion is anticipated based on new business models such as the third-party ownership model (TPO/PPA), etc. and a new unprecedented market is being developed as post-FIT measures.

In this report, RTS forecast PV installed capacity by fiscal year based on the system size, application and area taking into account of the social backgrounds and the cost reduction, etc. toward FY 2030. Moreover, as well as forecasting the installed capacity of storage systems, consideration was given so that the forecasts work as a key to future business planning by presenting an image of PV installation towards FY 2050.

We highly recommend this report as a guidebook to promote future business for PV system manufacturers and distributors, power producers, EPCs, manufacturers of inverters, supporting structures, measurement/ monitoring/ power conversion equipment, BOS manufacturers, financial institutions, insurance companies, O&M service providers, mass media, policy makers and all the others engaged in the PV business.

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<b>2. PV system price forecasts</b> - Forecast of PV system/ module, system price/ LCOE comparison (BAU/ accelerated scenarios)				<b>7. Conventional domestic PV market size</b> - Domestic PV market size in amount (BAU/ accelerated scenarios)
<b>3. Summary of PV installed capacity forecasts toward FY 2030</b> - Forecast of PV installed capacity by fiscal year (DC/AC)/ electric company (BAU/ accelerated scenarios), PV installed capacity taking into account the amount of removal (BAU/ accelerated scenarios), toward FY 2050)				<b>8. Forecast on the future-oriented PV market in Japan</b> - Forecast on the growth of the PV-related market in Japan (BAU/ accelerated scenarios)
<b>4. PV installed capacity forecasts based on BAU/ accelerated scenarios (~ FY 2030)</b>				<b>9. Prospects of the global market</b> - Forecast of PV installed capacity toward FY 2020 (RTS outlook), forecast by area
<b>5. PV installed capacity forecasts based on BAU/ accelerated scenarios (~ FY 2050)</b> - Forecast scenarios, forecasts by capacity range/ application/ electric company, forecast of approval, PV installed capacity under the FIT program (BAU/ accelerated scenarios)				<b>Appendix</b> <b>Appendix-1</b> Premises, etc. of installed capacity forecasts <b>Appendix-2</b> Factors for forecasting PV installed capacity toward FY 2030 <b>Appendix-3</b> Promising business models replacing the FIT program <b>Appendix-4</b> Surcharge of each fiscal year (FY) <b>Appendix-5</b> Forecast on PV installed capacity under other scenarios <b>Appendix-6</b> Assumption of the size of future-oriented PV-related markets in Japan <b>Appendix-7</b> Premises of forecast on the global PV market
<b>6. Forecasts on installed capacity of storage system</b> - Forecasts on residential storage system market (premises, economic efficiency, price trends, forecasts on installed capacity/number, market size), forecasts on industrial storage system market				

Overview	
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