

# Simulation of Output Curtailment of PV Power Generation in Japan (2020 - 2040) 2nd Edition

[Issued in February 2018 (Japanese)(English version: April 2018)]

The first edition of “**Simulation of Output Curtailment of PV Power Generation in Japan**” published in 2016 received high appreciation from a diverse range of our clients including PV power producers, financial institutions and so on. Since then, our clients requested a report on output curtailment with simulations of even higher accuracy, and we published the second edition of the report to meet their requests.

In the **2nd Edition** of the report, a review was made on PV systems subject to output curtailment by capacity range and service area of electric utilities so that simulations are based on output curtailment rules in Japan. The 2nd Edition of the report has higher accuracy of simulations by service area of electric utilities, than that of the 1st Edition of the report.

Based on the assumptions of operation and electricity demand trends of all the power generation facilities including PV systems across Japan by fiscal year, **wide-area supply and demand analysis model of the electric grid taking into account of supply/ demand adjustment capability was used**. Detailed simulations were made on an hourly basis for 20 years and amount of output curtailment was estimated by service area of electric utility and by fiscal year. We hope this report contributes to simulating revenues from investment in PV projects by our clients.

Table of Content	Forecast on PV installed capacity	Forecast on electricity demand	Forecast on operating power source	Forecast on output curtailment
<p><b>1. Status of the Feed-in Tariff (FIT) program as of 2017</b></p> <ul style="list-style-type: none"> <li>- Status of approved and installed (start of operation) PV systems under the FIT program</li> </ul> <p><b>2. Status by electricity supply area as of 2017</b></p> <ul style="list-style-type: none"> <li>- Status of PV systems approved and installed (started operation) by electricity supply area, scheme of output curtailment, responses by electric utilities</li> </ul> <p><b>3. Preconditions and estimation method for simulation of output curtailment</b></p> <ul style="list-style-type: none"> <li>- Conditions for simulation, calculation method, composition of power source facilities, conditions for evaluation of supply and demand adjustment capability, PV introduction scenario</li> </ul>				<p><b>4. Result of simulations</b></p> <ul style="list-style-type: none"> <li>- Estimate of output curtailment ratio by electricity supply area and by fiscal year (BAU scenario and accelerated scenario)</li> </ul> <p><b>5. Analysis of results and conclusion</b></p> <ul style="list-style-type: none"> <li>- Summary of analysis, indications from the analysis</li> </ul> <p><b>* Data on calculation results (Excel format) are attached to the report.</b></p>

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