

Quantitative scenario toward zero carbon power generation system

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This paper will clarify how to introduce zero carbon power generation system in Japan. The content of the paper is shown below.

1. Methodology of quantitative evaluation of current and future renewable energy systems in terms of cost and CO₂ emissions.
2. Evaluation results of individual renewable energy.
3. Economics of power generation systems under different CO₂ reduction rates (0~100%).
4. Quantitative power generation system scenarios toward 0 carbon emissions under different power consumption (800~1400TWh/y).

Clarification of technologies developed till 2020 and 2030 which will be used for scenarios of power generation systems from now to 2050.