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Keynote speaker

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Title

Study on AC / DC microgrids at Aichi Institute of Technology Eco-Electricity Research Center

Abstract

In this lecture, we will introduce the research activities at the Eco-Electricity Research Center of Aichi Institute of Technology. The Eco-Electricity Research Center, established in 2005, is conducting research on renewable energy. The center uses the lecture building to build an AC / DC hybrid microgrids and conduct multifaceted researches. These grids are an AC / DC hybrid type and can shift from an independent mode to an interconnected mode without power interruption. In addition, DC grids are constructed to supply DC power to DC load equipment. Furthermore, we are developing a prediction method using a sky camera to predict the amount of power generated by solar power generation equipment and wind power generation equipment.

In this lecture, we will introduce the results of these researches.