

EEE-AM 2023 Special Session 05

TITLE

Advantaged technologies for renewable energy integration in International Cooperation of Vietnamese Universities

SESSION CHAIR

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DESCRIPTION

Currently, Vietnam is gradually becoming one of the fastest growing renewable energy countries in the world. By the end of 2022, the total installed capacity of solar power (including concentrated solar power and rooftop solar power) has exceeded 17 GW; wind power exceeds 5 GW. The percentage of installed capacity accounts for about 27% of the total installed capacity of the power system. According to the latest draft of the power system development plan 8 (PDP8), the total offshore wind power capacity will reach more than 7 GW by 2030. Along with this strong development of renewable energy, orientation to build storage hydroelectric power plants and high-capacity battery storage systems are also included in PDP8. Basing on the diversity of sources and the expansion of the regional interconnection grid in PDP8, the development of new research topics for Vietnam is imperative. On this expanding research need, research projects in collaboration between international universities, international laboratories and research institutions in Vietnam have been carried out. The knowledge of international research institutions will strongly contribute to the sustainable development of Vietnam, ensuring the objectives set out by PDP8. Topics are related to (but not limited):

- Reliability indices of high integrated renewable energy power system
- Frequency control of Wind Power to support Power System
- Optimal Solution for Renewable Energy Forecasting
- Environment Impacts of alternative energy sources
- Comparison of Current Policies and Grid Codes