



OO/UC3M/26 - RESEARCH IN POWER SYSTEMS: POWER QUALITY AND ELECTRICITY MARKET

The research group REDES from UC3M has experience on electricity market, grid integration of wind energy and power quality. The group may offer consulting activities with a high component of research. We are looking for the collaboration of companies devoted to the consulting related to electricity markets, the integration of wind power in the electricity network, and with power quality.

Description of the technology

The research group REDES from the Universidad Carlos III de Madrid is formed by a number of electrical engineers with a large activity in consulting related to electricity markets, the integration of wind power in the electricity network, and with power quality. The group has an in-depth knowledge of the Spanish electricity industry, since it has cooperated with important companies and organizations in this sector. Different works in consulting, R+D national and international research projects and on-site courses have provided the group with experience in its fields of specialization. The group members are familiar with different standard power system analysis tools such as PSS/E, PSCAD/EMTDC, ATP, MATLAB/Power System Blockset, GAMS, and has developed programs following the end users requirements, such as SIPREÓLICO, the short term wind power prediction tool now in use by Red Eléctrica de España, the Spanish TSO. The results of our research has been acknowledged in the academic and industrial sectors, and several members of the research group participates in national and international working groups.

Innovative aspects

Experience in new energy sources, such as high integration of wind energy. Use or design of new optimization and analysis tools. Experience in grid integration of wind energy.

Ventajas competitivas

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Current state of intellectual property: Secret know how

Palabras clave

Storage of energy, batteries; Power Transmission; Generators, electrical machines and power converters; Wind energy.

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