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Seminario

Sustainable Electric Power Systems in the 21st Century: Requirements, Challenges and the Role of New Technologies

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Abstract - Sustainability of electric power systems requires balancing the business across three areas: economic, social and environmental. This will have a profound impact on how power systems will be planned, built and operated in the future. In the evolving electricity supply industry environment, the challenges are to produce, transmit, and use energy in an environmentally friendly manner, to reduce costs by improving operating efficiency and business practices, and enhance the reliability and quality of power supply. In particular, there will be a greater need to address power system security issues and develop measures to prevent the occurrence of widespread blackouts. Research and development of new technologies will play a major role in shaping the future directions of power systems in this regard. This presentation will describe these changes affecting the electric power industry and identify new technologies that will influence the changes.

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