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Planning method for integration and expansion of renewable energy sources with special attention to security supply in distribution system

By José Luis Cerda-Arias

Shaker Verlag Mrz 2012, 2012. Taschenbuch. Book Condition: Neu. Neuware - Today's structure of power systems with competitive wholesale markets for electricity encourages the introduction of new agents and products, customers with self-generating capacity and the specialization of generators, network operators and power suppliers. Furthermore one has to take into account the variation of the fossil fuel prices in the world market, which even anticipates the closeness of its scarcity, the instability of the fulfilment of contracts, and the existence of import restrictions. In addition the implementation of policies aiming to control CO2 emissions, and efficient use of energy plus the advent of more efficient technologies have to be incorporated in new network expansion projects. These are forcing utilities and society to seek new forms of electric system expansion without affecting their economic growth. This expresses a challenge to sustain such a growth changing the vision for the power system and the required security of electricity supply, usually based on internal factors of the electric sector, without considering the connection between the current transmission and distribution networks, the uncertainties related to the competition in the electricity market and the effect of distributed generation units. The high penetration of distributed generation...


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