



Joint RES and Distribution Network Expansion Planning under a Demand Response Framework

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Joint RES and Distribution Network Expansion Planning under a Demand Response Framework explains the implementation of algorithms needed for joint expansion planning of distributed generation and the distribution network models. It discusses how to expand the generation and distribution network adding renewable generation, demand response, storage units and new assets (lines and substations) so that the current and future energy supply in islands is served at a minimum cost and with the quality required.

This book discusses the outcomes of the models discussed and factors such as the locations and sizes of new generation assets to be installed. It also introduces other issues relevant to the planning of insular distribution systems, including DR and hybrid storage.

DR and ESS will play a more and more significant role in future expansion planning model. The present study stresses their relevance, including additional considerations to the planning model.

- Investigates the costs and benefits of deploying energy storage systems (ESS) and DR
- Explores distribution and generation expansion planning
- Analyses and addresses power flow constraints and the impact of real time pricing mechanisms
- Details the RES integration challenge at length

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