Towards a Danish power system with 50% wind — Smart grids activities in Denmark

The new Danish Energy Strategy implies 50% wind power penetration for the Danish electric power system by 2025. Accordingly, it is the vision to develop the Danish electric power system into world’s best renewable based electricity system, and many research and development activities have taken place with collaborations nationally and internationally. This paper describes the research activities in relation to implementation of renewable energy targets set out by the Danish Energy Strategy and initiatives of the EcoGrid.dk program to facilitate this process. Based on the analysis and evaluation of research needs and related research activities, the remaining gaps are identified for future activities to support a transition into sustainable energy networks.

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