Abstract

Grid management in India is carried out on regional basis of which the southern grid is connected asynchronously while others are synchronously connected. Even though the entire transmission grid works in a specific mode, a number of challenges do exists. In this paper, we present the peculiarities found in the Indian power grids, its mode of working along with the challenges posed during the normal operations of the grid. This is then followed by the available methods for warning systems followed by the need of ICT technologies in handling the power grid failures. This paper further explores the various modules required to help keep the power grid in a good working condition via data mining and ICT technologies.
Survey of Indian Power Grid: Overview and Challenges

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Index Terms

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Keywords

Power Grid, Smart grid, ICT technologies, power failures, identification and prevention