

ICRERA 2024
13th INTERNATIONAL CONFERENCE ON RENEWABLE
ENERGY RESEARCH AND APPLICATIONS



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Abstract

Title: Smart Grids for Green energy transition

Smart Grid is now the buzzword in the power industry all over the world. The rise of smart grid is a boon not only to society as a whole but to all who are involved in the electric power industry, its customers, and its many stakeholders. It presents our planet with a revolutionary way of power transmission and distribution. It has even paved the way for many advanced forms of data prediction and handling, where the increased awareness of the environmental impact and the carbon footprint of all energy sources, including electric power production, have given impetus to the growth and adopting of renewable as well as alternative energy. The modernization of electric grids toward a smart grid is being carried out to improve reliability, facilitate integration of renewable energies, and improve power consumption management. Also, the electric power systems throughout the world are facing radical change.