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Next-Generation Smart Grid Infrastructure with IoT-Controlled Feeder Charging

Aman Kumar Singh¹ Ashish Kumar² Arif Ansari³ Sangam Yadav⁴ K.P. Yadav⁵

¹²³⁴B. Tech Students, Department of Electrical Engineering,
⁵Assistant Professor, Department of Electrical Engineering,
R. R. Institute of Modern Technology, Lucknow, UP, India

Abstract: Power distribution stations and grids play a crucial role in efficiently transmitting electricity to residential, industrial, and commercial areas. Ensuring safety measures and proper management of grid parameters is essential. Currently, grid monitoring is primarily done using SCADA systems, along with other techniques[1]. However, these methods have several technological limitations and drawbacks that hinder their effectiveness

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