Abstract

The most essential asset of any country that can boost its development or can destroy it, is electricity. Electricity theft prevention or non-technical loss detection has become major problem around the globe for every developed or under develop country to maintain its status in global society. Every month and every year many researchers, scholars and university students presented their studies, ideas and proposed their electric management system for prevalent of non-technical energy loss detection in transmission line. The core objective of this survey is to highlight the existing solutions, their effectiveness in terms of performance and accuracy and their applicability. This will help in finding a diverse and reliable solution, understanding what others possible methodologies and techniques can be adopted in order to overcome current transmission supply challenges and improve the existing solution that can promptly address electricity prevention issues.


Index Terms

Computer Science
Power Systems

Keywords

Electricity Theft, Energy Prevention, Non-Technical Loss (NTL) Detection, Machine Learning, Artificial Intelligence, Smart Meter, AMI