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During the past 20 years an increasingly competitive power industry has recognised the importance of addressing the issue of power quality. Many companies now take an active roll in addressing the problems associated with power quality. They are investing in the research and development of equipment to overcome power dips, surges and interruptions, and offering the customer a wide and varied choice of solutions and services to their power quality needs.

These solutions are usually based on overcoming the limitations of individual equipment, which is being used by the customer, rather than making improvement to the quality of power supplied. This paper aims to bring to light the incipient problems experienced on LV underground networks, the reasons for the problems and their affect on the end customer and a utilities CML statistics. (Customer Minutes Lost CML is a method of measuring the performance of the network in the UK) This paper presents the research work carried out by LEM and EDF Energy to identify how to detect and locate faults using online techniques. The finding of this research is being used to reduce the downtime experienced by customers by decreasing the time involved in resolving these reoccurring problems.



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