

Low Voltage Distribution Feeder Load Estimation Based on a Practical GIS-Based Method

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Abstract— Carefully load estimation has an important role in power distribution networks. Planning and operation using a more realistic and accurate load estimation are more economic and efficient. In this paper, a new simple and practical method is proposed which can be used for any complex distribution network that are modelled in GIS. This method uses easily accessed energy consumption data in billing databases and an estimation/correction algorithm.

Keywords— Active Demand, GIS, Load estimation, Power distribution.