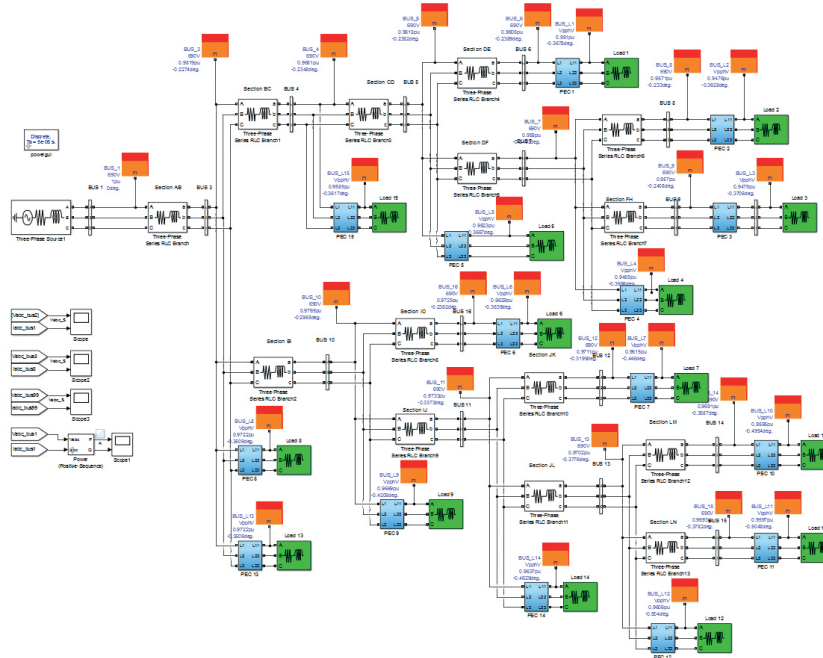


WESTERN POWER DISTRIBUTION LV PLUS



Project Description

A key challenge facing the UK Distribution Network Operators today is the increasing demand for power being placed on residential networks e.g. by the proliferation of electrical vehicles and the move to electro-heat. The increase in distributed generation in areas of network conventionally designed for supplying demand can lead to local voltage rises limiting capacity.

This project follows on from a TSB Feasibility Study which showed that a cost effective solution to these problems can be achieved on the existing infrastructure by increasing the local network phase voltage to 400V.

Areas of Work

WPD will be selecting a deployment location for up to 20 devices to be field-tested on an LV network. Before the field trial takes place, the safety case for the device must be satisfied. Also, in order to secure customer supplies, some mitigation options will be required should the device fail. Modelling work on the chosen location is also required in order to predict what effects on losses will be seen in the final installation.

Project Partners: Exceptions EMS, Anvil Semiconductors, Schneider Electric, Turbo Power Systems and Aston University



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