

Electrical Power (10 credits)

Students will study in detail the way that electricity is transported across country and how a national grid is operated.

Issues of connection of local generation capability to a grid. Three phase supply and provision of dual voltage supply systems.

Simple transformer theory will be extended to consider street corner supply techniques. Battery storage in combination with solar panels for remote applications will be studied.

A team-based project includes consideration of the energy supply for a small community.