

**code::xTremeApps::2010**  
**The Dynamics**

From the challenges of code::xTremeApps::2010, The Dynamics from School of Information Technology, Nanyang Polytechnic, had successfully developed the next wave of interactive web application to facilitate, control and reduce the wastage of energy consumption.

Calling the application Green Remote Estate Network (GREN), the complete solution is a web application that is able to remotely monitor and control a plurality of electrically appliances. It allows users to configure, monitor and maintain appliances in a remote building anytime, anywhere.

Users can also view footages of all connected facilities through CCTV, which added to totality of the solution by providing a real-time transparent view of the identified facility, without having to be physically at that location.

In addition, the GREN system can also register upcoming events to be at targeted facilities, thus allow relevant appliances to be switched on or off for that period of time. The GREN system can further control appropriate appliances based on weather conditions. For instance, if the weather forecast states that it's raining, then the fan speed or air-condition unit will automatically be decreased.

All these are further enriched and enhanced by developing on the interactively rich feature of 3D modelling running on GermaniumWeb. Users will not only be empowered with control and monitoring features, they will also be able to visualise from a multitude of viewpoints and walk-through the 3d model rendered using any generic web browser.

In conclusion, with the GREN web application solution, users can embrace the green movement and reduce the wasting of energy unnecessarily.

