Information System and Science for Energy (ISS4E)

http://blizzard.cs.uwaterloo.ca/iss4e/wiki/index.php/Main_Page

Location

DC 3562

Management

Director:

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Co-Director

- Catherine Rosenberg

Users

UW Grad Students

Research

- Building monitoring
- Smart Home
- DG Anomaly Detection
- Direct Load Control
- Teletraffic Analysis of Electricity Load
- Mobile Energy Monitoring and Control
- Balancing Network Generation and Load Using EV Fleet Charging
- Transitioning Taxi Fleets to Electric Vehicles

Selected Projects

- Home Energy Modeling
- Taxi Fleet Conversion to Electric Vehicles
- Data Centre Upgrade

Equipment

- Microsoft Home OS
- iSMART power strips – measure power usage
- They build customized Solar Panels
- Home Measurement Kits – measures home electric usage every 6 sec
- 55 Blackberry cells – to use as GPS for vehicle mobility)
- 40 Black boxes – to measure humidity/temperature, light level and sound levels of buildings

Sponsors

- CFI
- Microsoft
- RIM

Access Rights

Free for grad students