



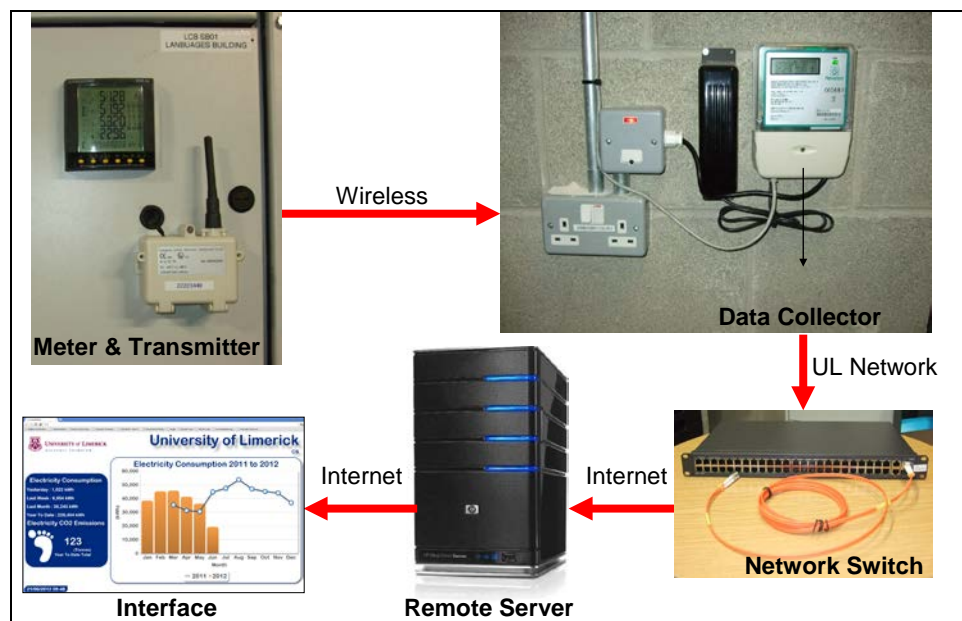
## About the Energy Monitoring and Targeting System

UL's EM&T system currently collects information every 5 minutes from 130 of the most important electricity, gas and water meters on site. The breakdown of meters is as follows:

- 72 Electricity Meters
- 45 Gas Meters
- 13 Water Meters

The EM&T system works as follows (see Figure 1):

- The meter to be monitored is first connected to a transmitter.
- The transmitter wirelessly transfers information on energy consumption to a data concentrator.
- Data concentrators can receive and store information from multiple transmitters and so are placed to collect information from as many meters as possible.
- The data concentrator is connected to the UL Ethernet which transfers the data to a remote server.
- The remote server hosts data processing algorithms required identify and file away data.
- A separate server hosts the EM&T software which allows for easy access to the system



**Figure 1. How the EM&T System Works**

It is intended to use the EM&T system for a variety of reasons including:

- Engaging with the campus community and using it as the tool in an energy awareness campaign.
- Identify energy saving opportunities.
- Determining the efficacy of energy saving initiatives.

The campus community will be made aware as more meters are added to the EM&T system. The B&E Department are already working on additional ways of making more data available to the campus community.