

## **The Green Portal<sup>1</sup> Current Parser Project.**

Project Description: A Research & Development project to develop a fuzzy logic chip set to extract algorithmic signatures of individual power sources. This device will become the 'feedback' loop for real-time data collection on electrical energy usage and will be accessible over the web.

### **The Problem:**

People need a feedback loop to support their commitment to sustainable behaviours that they adopt through the One Tonne Challenge and other sustainable behaviour challenges. As well, it is essential to automate the data collection method for home (and industrial) energy use to increase sustainable behaviour adoption rates.

### **Work to be Done:**

There are three components to the device. The chipset, the communications interface and the software (web) interface.

The initial research will attempt to extract 'fractal algorithms' or visual patterns as power sources are turned on and off. We will start with a few energy sources (i.e. lightbulb, toaster, VCR) to test the theory.

Once we have the software/hardware interface working such that we can differentiate the different energy draws (patterns) we will bring it into a test home and attempt to isolate all energy draws through an iterative process (ie turn on the TV, unplug the fridge etc.) to get a complete picture of a home's energy pattern.

The goal is to create a low cost solution for home energy data collection and to pour that data into a series of animated data models to promote sustainable behaviour.

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<sup>1</sup> The Green Portal Project is a pilot project to evaluate community-based communications strategies to promote behavioural change at the community and individual level. <http://greenportal.objectis.net> More info at: ([www.numediagroup.com/greenportal/GreenPortal.pdf](http://www.numediagroup.com/greenportal/GreenPortal.pdf))