

LOAD IQ
End Up Green

Closure Rules for Non-Intrusive Appliance Load Monitoring

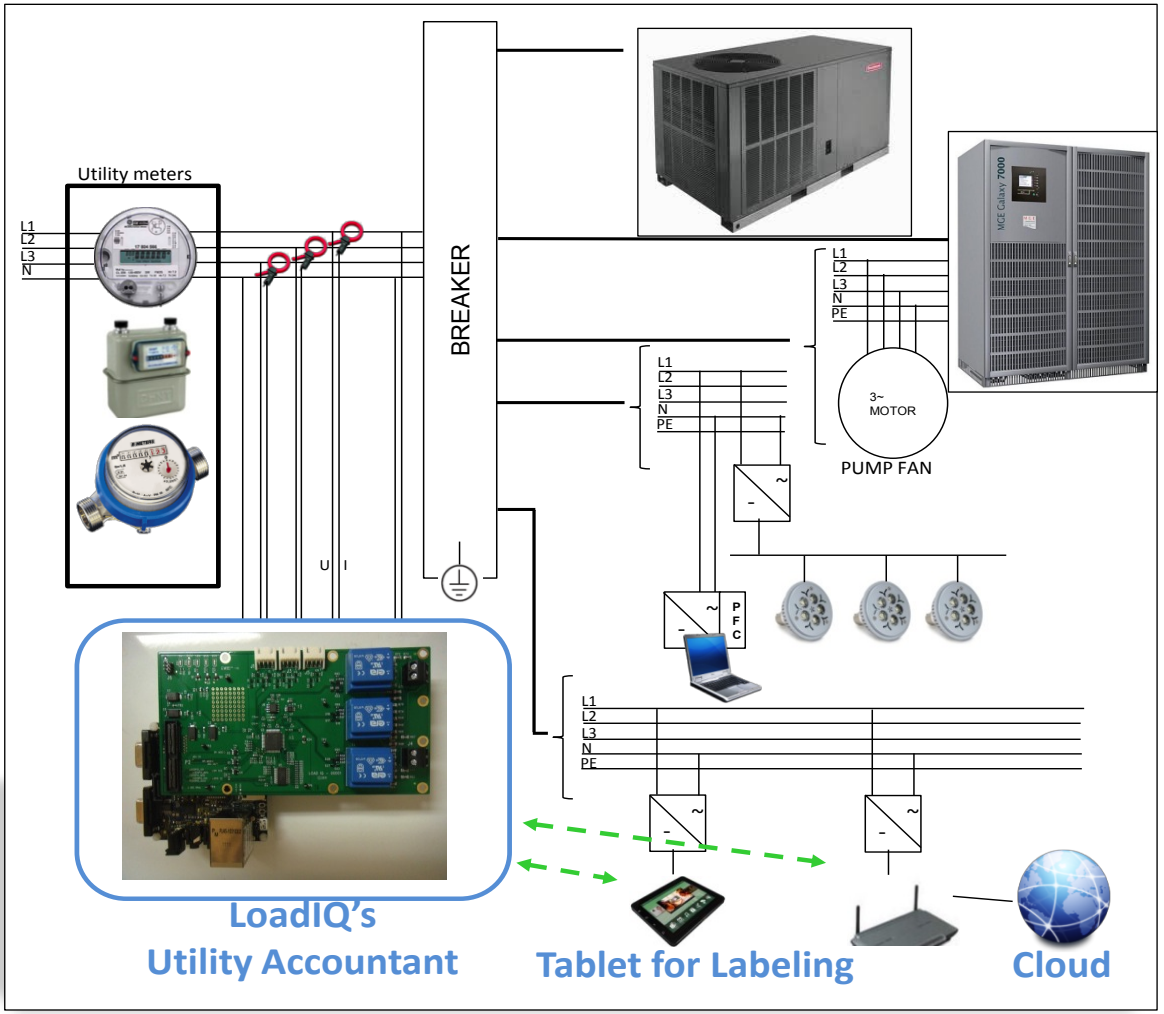
Drs. Hampden Kuhns, Morien Roberts, & Babak Bastami

Load IQ LLC

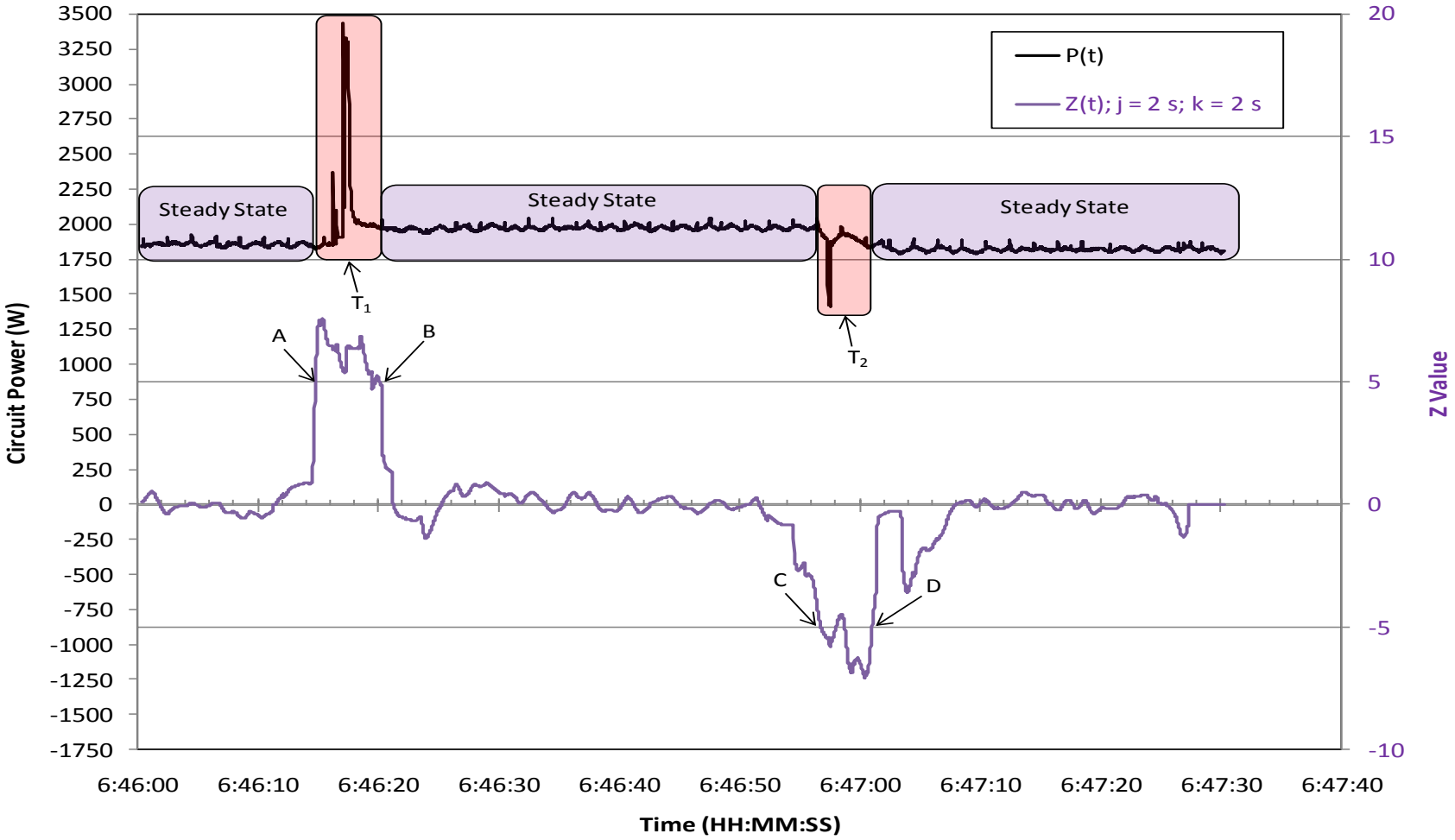
- Formed in 2007 in Reno, NV
- >$1M Grant Funded (California Energy Commission, Nevada Institute of Renewable Energy Commercialization, National Science Foundation, Dept. of Energy)
- Ongoing paid trials with Siemens, ATT, & GDF Suez
- 2011 Clean Tech Open Finalist
- Four Patents

Non-Intrusive Load Monitoring (NILM)

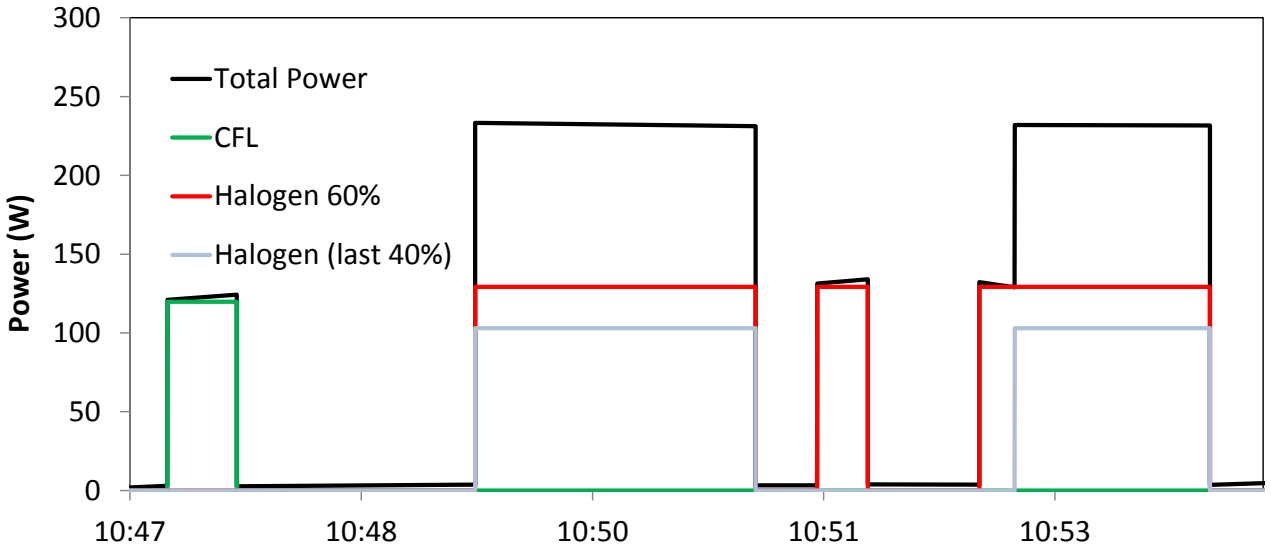
- Measuring multiple loads from a single point of measurement

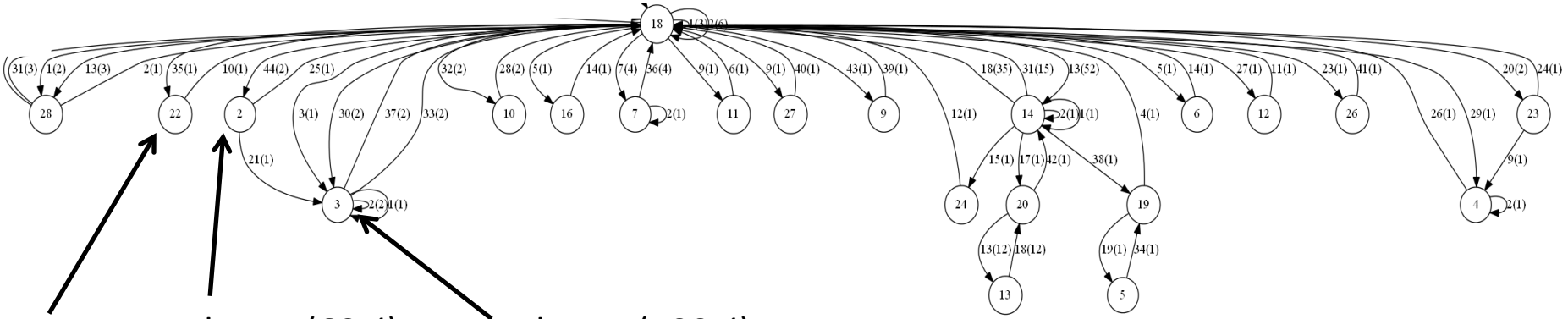


Two kinds of states: Steady & Transition

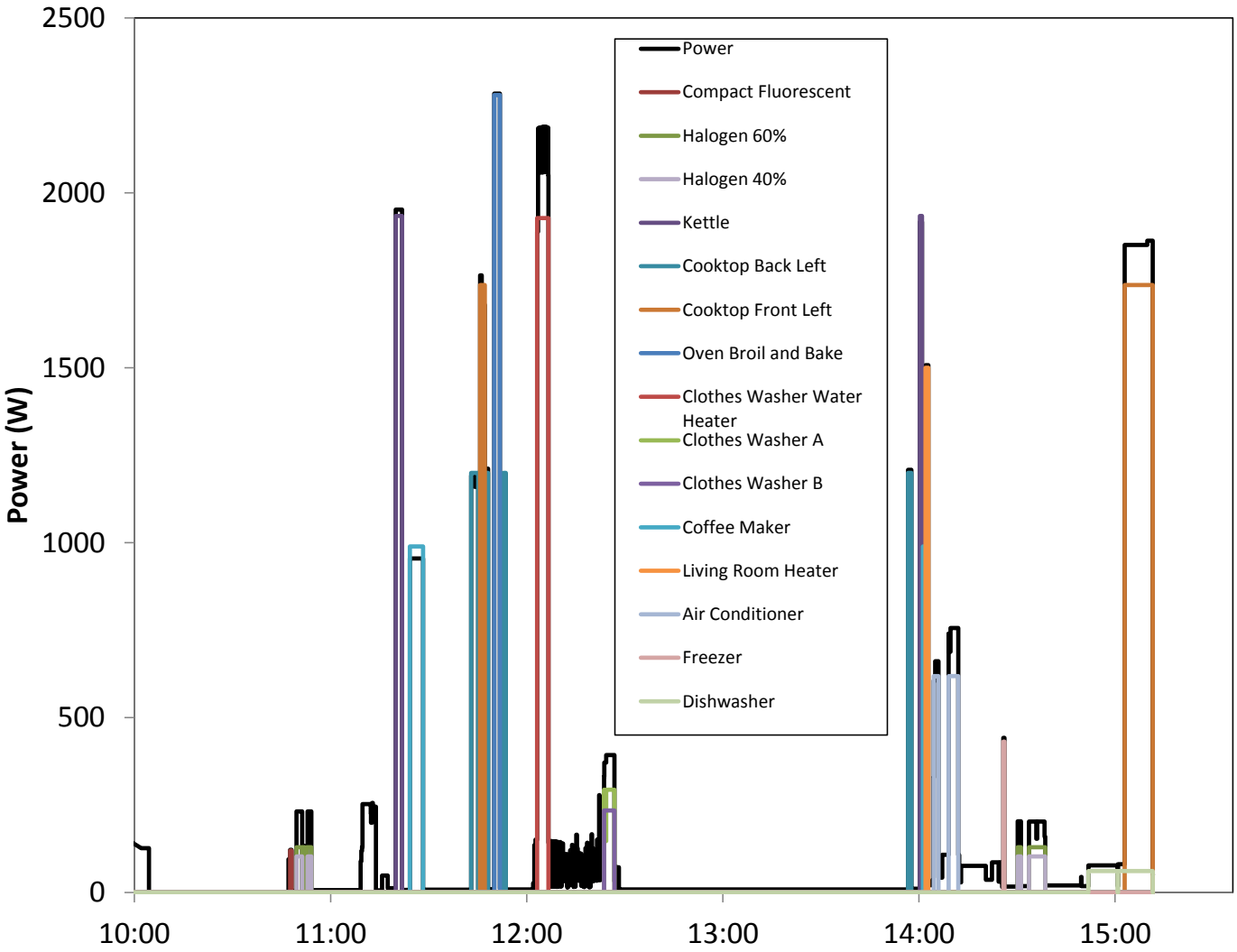


Time Series and State Maps

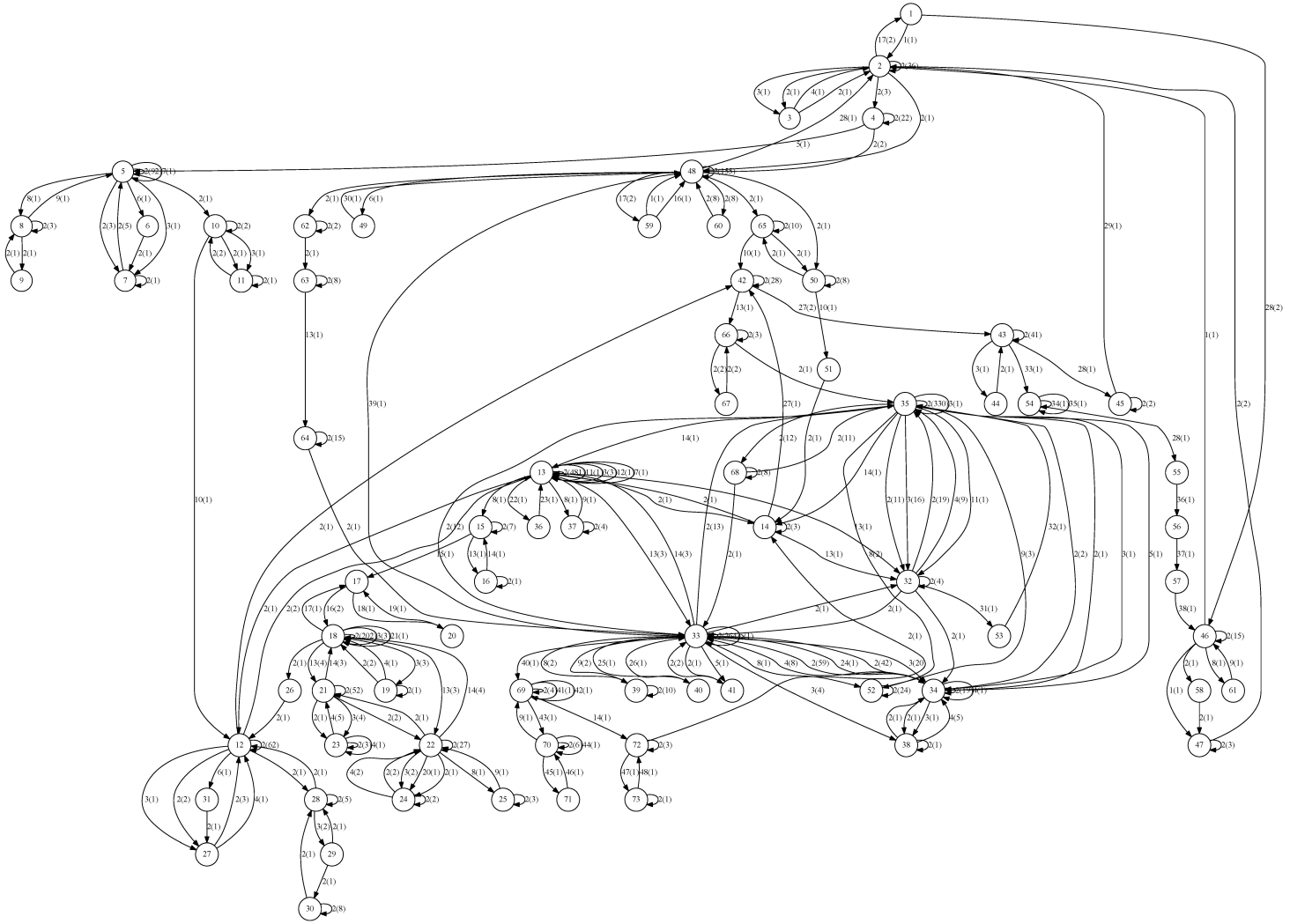




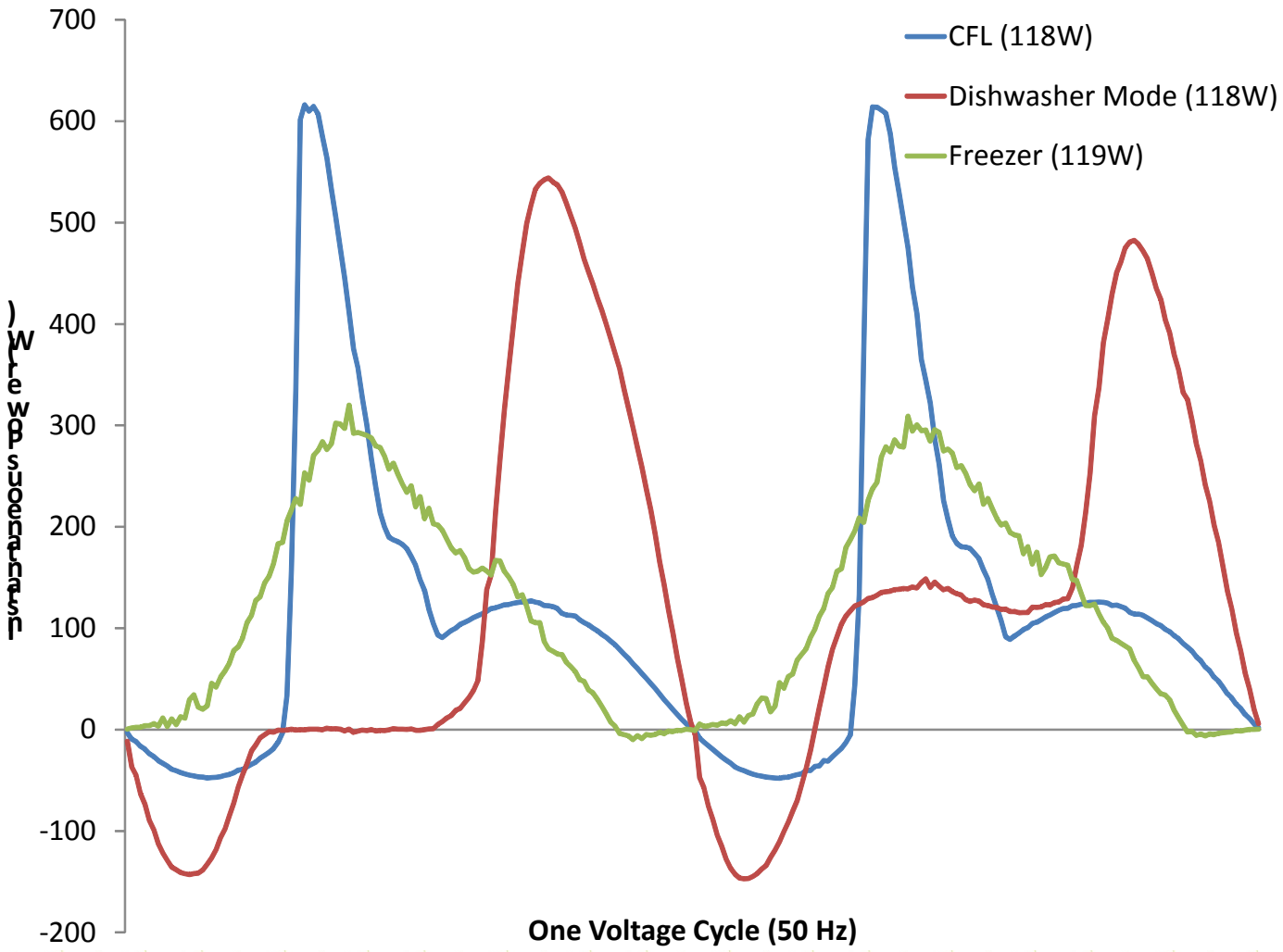
Learn Appliances One by One



State Diagrams can Get Complex

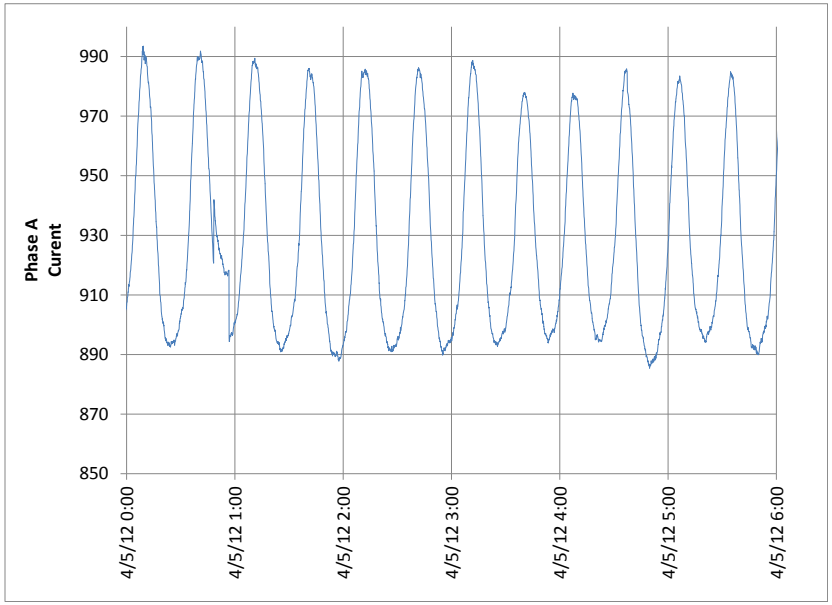


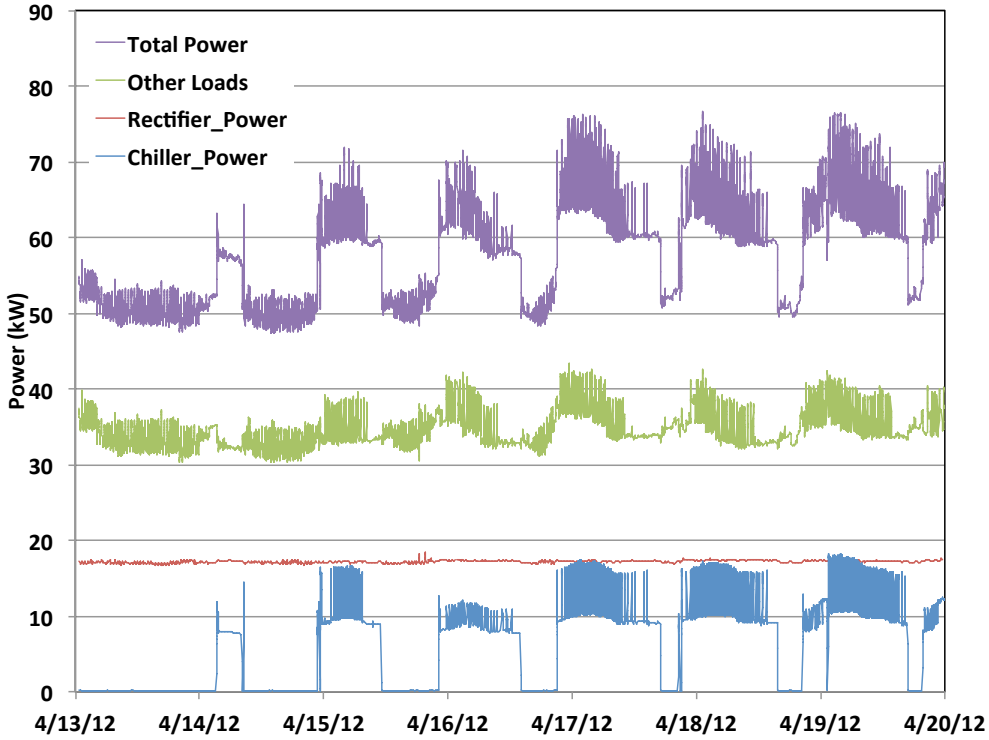
Real Power Lacks Important Detail



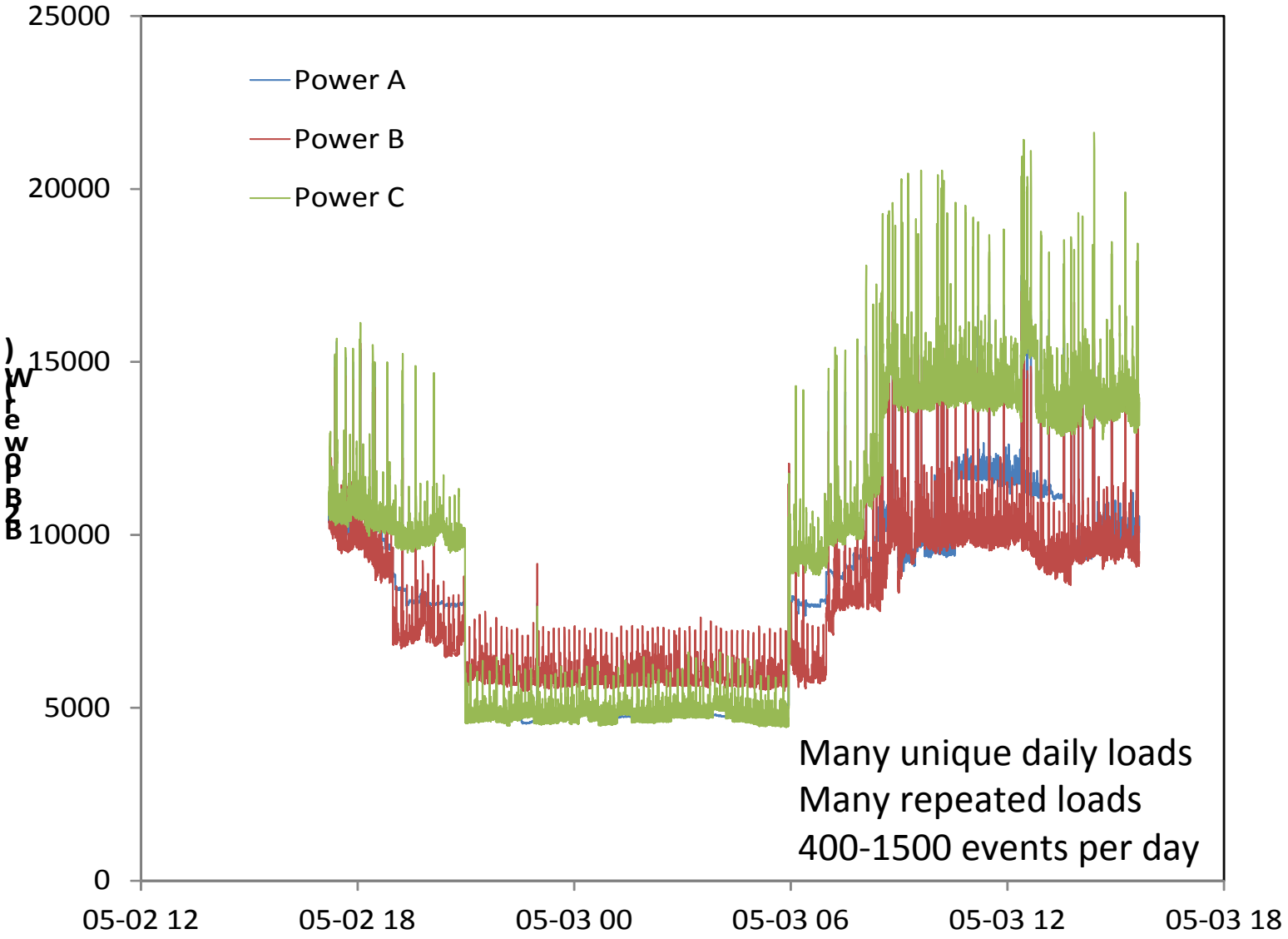
Next Hurdles (Telephone Central Office)

- Always on
- Labeling
- Mysterious Loads

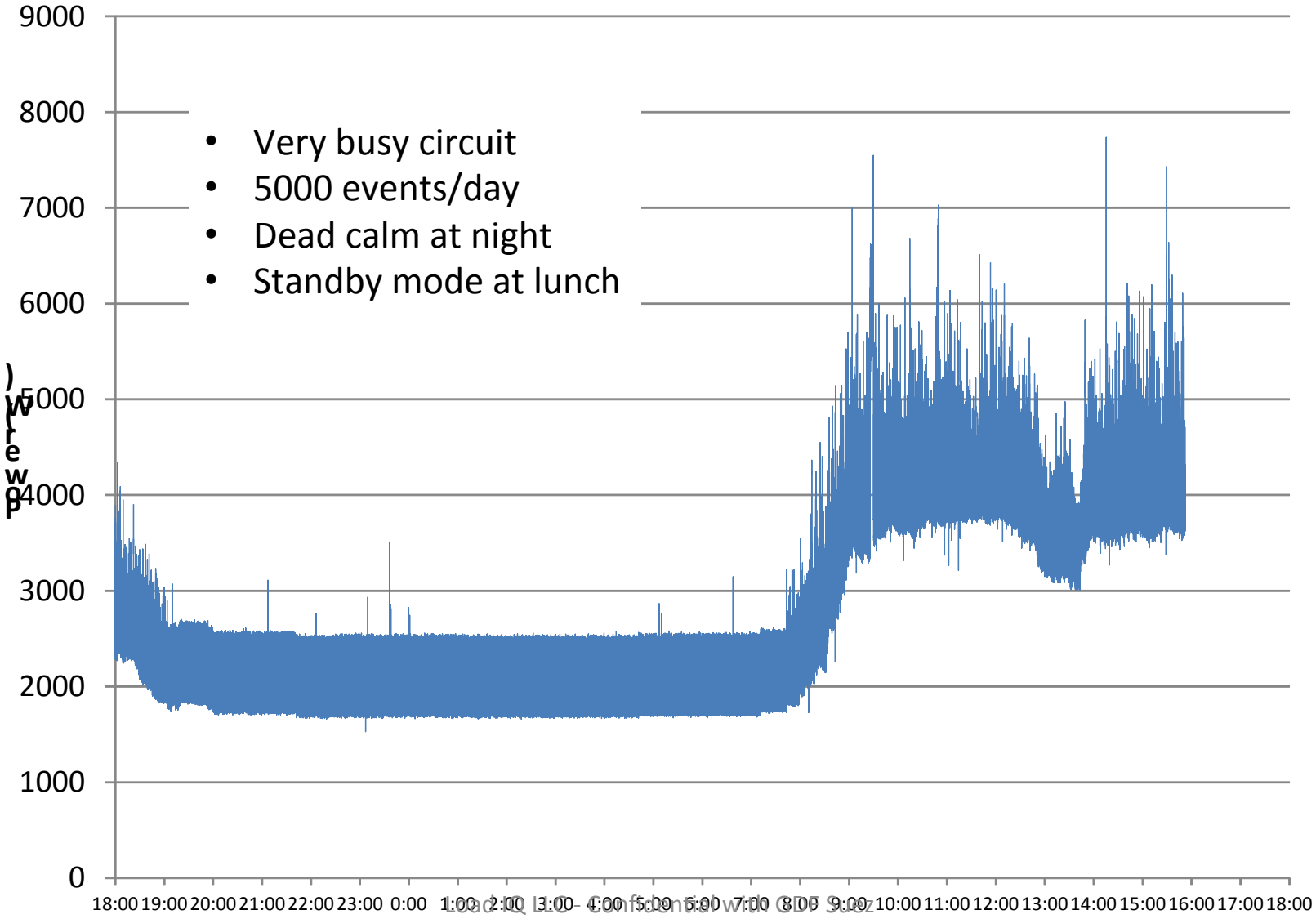




50 Desk Office Building



Computers in Office Building



Load IQ LLC - Confidential with SDF Subz

Thank you - Questions

