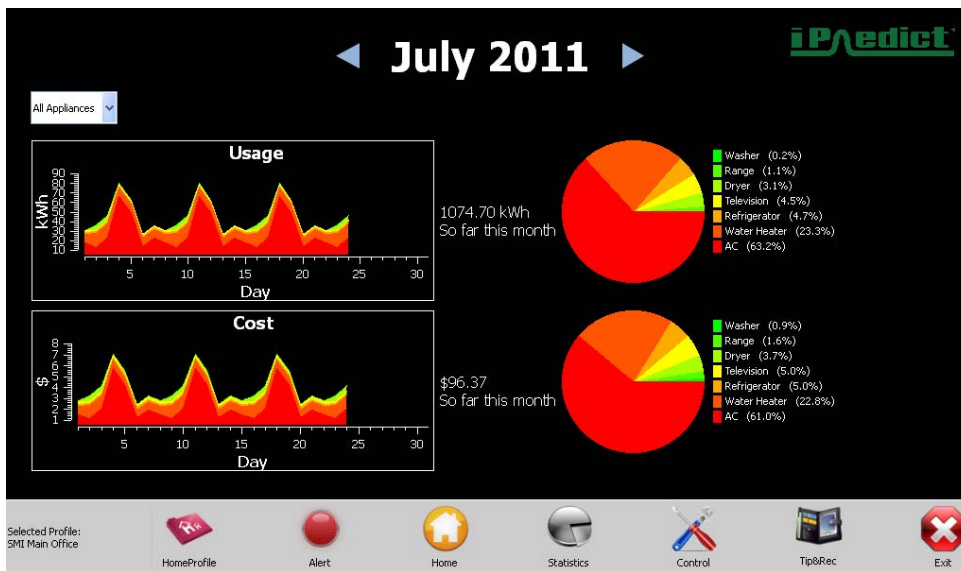


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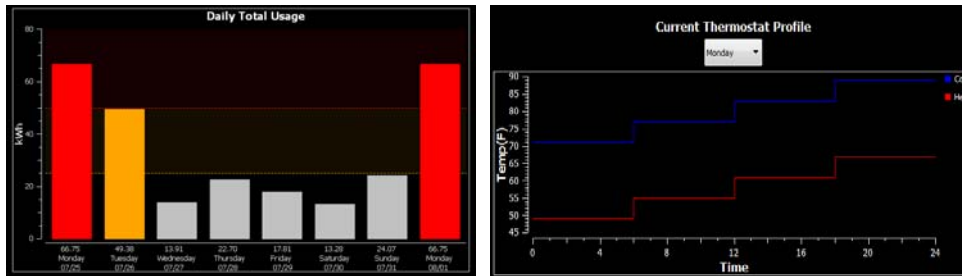
Analytics Application for Energy Management

SMI has developed a proof-of-concept (POC) application to showcase the expansion of our predictive analytics expertise into the energy management domain. SMI's interest in efficiency management and predictive maintenance of energy and power systems is a natural extension from our core competency of prognostics and health management of aircraft engines and auxiliary power units. We envision that analytics applications will empower the owners and managers of homes, buildings, and premises to improve energy efficiency, save money, and reduce their overall carbon footprint. We believe that these analytics-powered applications can keep people engaged in personalized, *active* energy management and respond to time-critical demands for load changes.



This POC is a touch screen, embedded application that can run on a tablet computer and other mobile devices. It stores energy usage and cost data locally, and analyzes the data to recommend thermostat setting and energy efficiency tips. The data structure of the POC is the same as SMI's aviation remote monitoring software iTrend®. With the same data structure, this POC and all future analytics-powered applications can "talk" to the cloud-based analytics remote management server like the SMI's iPredict® system.

SMI's experience in Energy Management includes an experimental home at an employee's house to collect appliance electricity demand and room temperature data, a house/building thermal balance simulator, and analytics engine software development in Intel's Home Energy Dashboard Reference Design (ref.: www.intel.com/go/energy). Analytics-powered applications like the POC complement the reference design. They can also be readily adapted to other designs and integrated energy management solutions for industrial and commercial premises.



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