



# Energy Auditor

## HEA (Home Energy Analytics)

### Project Descriptions

#### Project 1: Energy Auditor/ Energy Coach training

HEA helps PG&E customers with high energy bills find where their “Energy Hogs” are in the home. An assigned Energy Coach makes low to no cost recommendations for high energy areas. These are some examples of high energy users in the home



Pool pump timer - Ran about 3-4 hours (ideal), but some homes have no “off” switch so the hot water flows the whole day (very inefficient)



Recirculation pumps that circulate hot water run about 6 hours in a day (very inefficient)



InstaTap - keeps water hot for convenience the whole day. When retrofitted, customers are given timers to specify times of need



#### Project 2: Low to no cost recommendations for “Energy Hogs”

Smart-strip, Digital Timer, Smart Outlet (Wemo), new appliances or eliminating all together are some recommendations. Devices used during a home audit include the Rainforest monitor and a kill-a-watt meter.



#### Project 3: “College and Careers” ESTM presentation

Sequoia Union High School District

Explained different ESTM classes and career opportunities in the energy and solar field, taught students components of home energy kit, provided an exercise which allowed students to try using the kill-a-watt meters themselves



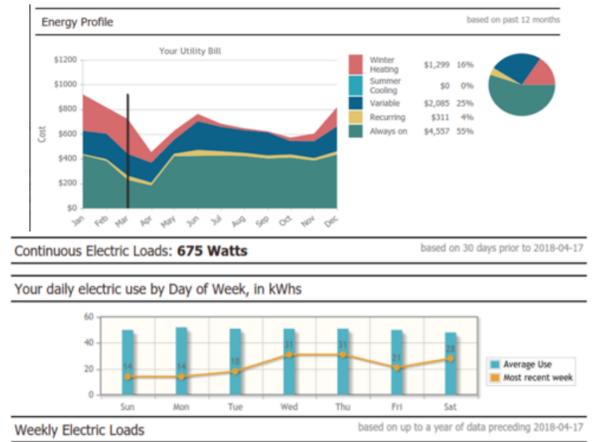
### Achievements / Results / Outcomes

**Project 1: Assessed five energy intensive homes**  
When home audit recommendations are utilized, a home can reduce energy use dramatically. Home Intel’s graphs allow the client to monitor their own usage by evaluating the load types in the graphs.

#### Project 2: Results after retrofitting:

Different Energy Loads allow the Energy Coach and customer understand which usage is high

- Follow up occurs monthly
- Continuous support and recommendations
- Reductions compared to baseline energy usage
- Educating homeowners on tracking their own energy use in real time



### Lessons Learned / Intern Experience

#### Successful Strategies:

1. Asking for help when you are stuck will move you forward and promote collaboration and team cohesiveness
2. Communicating the needed efficiency changes clearly and professionally for customers with varying energy knowledge
3. Gaining more public speaking experience through the high school engagement

#### Recommendations for Improvement / Program Expansion:

1. Setting energy reduction goals for each home audited
2. Improving methods for outreach and program visibility
3. Keeping clients engaged and excited about the program and their own home energy savings to keep them motivated to continue their practices

Rebecca Gines

Intern background: Rebecca’s goals are to increase inefficiency awareness through outreach, volunteering and making energy reduction fun!

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