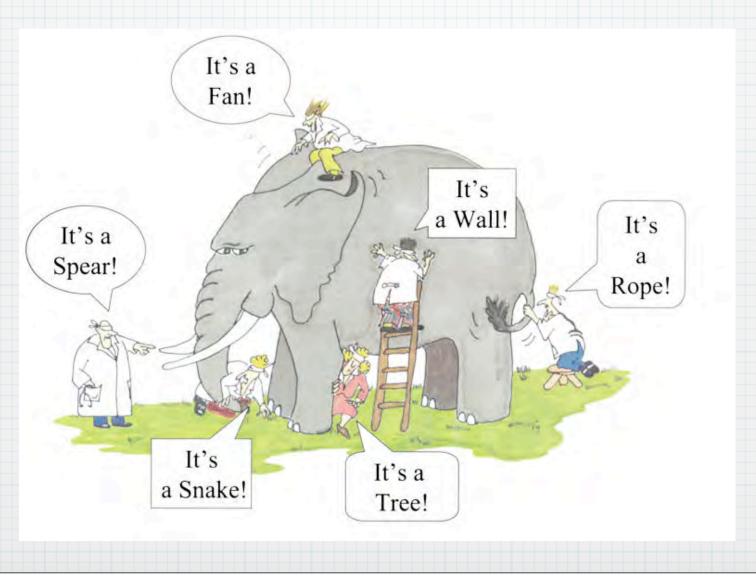
Technologies supporting learning and cultures of participation in Energy domains

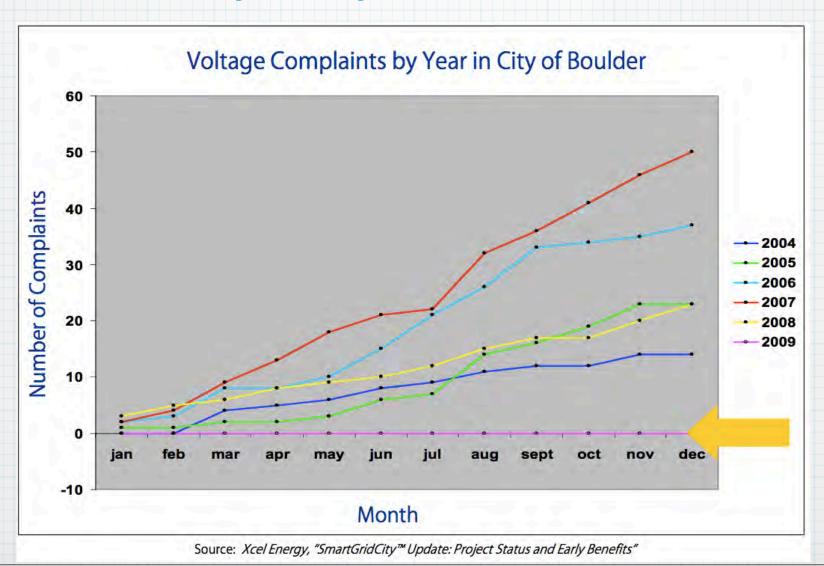
What is the Smart Grid?



If I Only Had a Brain...



One perspective: Xcel





Learning & Discovery

- * not just learning about energy
- * but
 - * creating more intuitive understandings
 - * learning how energy choices impact our lives
 - * learning in context of our situation

Tactile Learning: Hand-Crank Generators



Learning: Simulations

Home>Rooms>Devices

See Real-Time Usage

Explore Consumption & Saving Opportunities

Share and Compete with Friends

Selected Device

Your TV is a *Generic Flatscreen* Change TV
The TV is currently grouped with *Cable Box* and two more devices View Group

Simulate Schedule

Unplug When Not in Use Leave on Standby When Not in Use Use Standard Schedule (on from 6p to 11p) Use Blank Schedule

Energy Profile

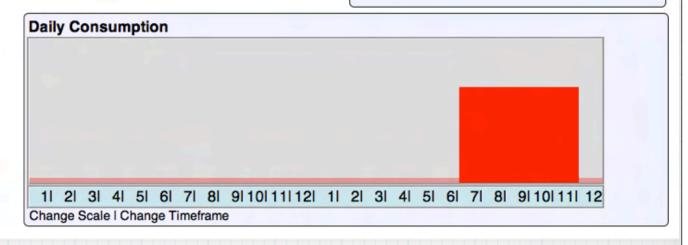
The TV is using 100 Watt when turned on and 5 Watt in standby mode

Consumption with Selected Schedule

TV Uses: 0.595 kwh/Day

TV Standby Uses: 34.675 lbs Coal/Year Group Standby Uses: 208.05 lbs Coal/Year EnergyStar Could Save: 113.3325 lbs

Coal/Year Change Units



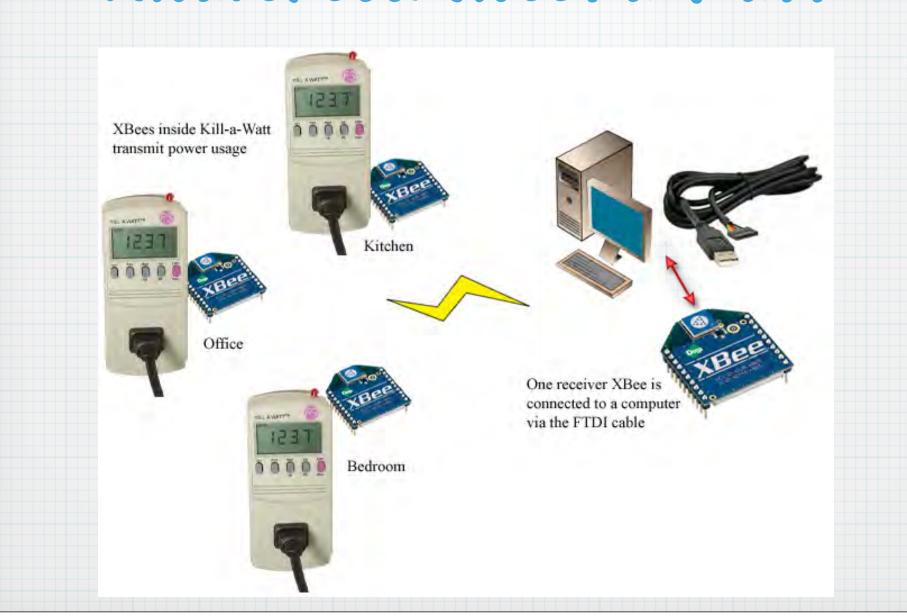
Learning: Simulations



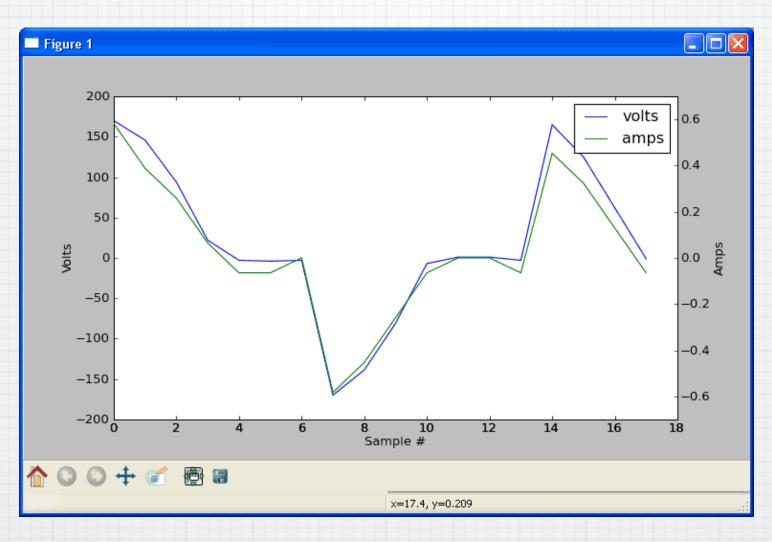
Learning through Awareness

- * from: energy as an invisible quantity
- * to: making the invisible visible
- * to: making the invisible meaningful and actionable
- * to: understanding energy use in the context of community and peers

Awareness: Tweet-a-Watt



Tweet-a-Watt: Tracking Energy



Tweet-a-Watt: Sharing Experiences

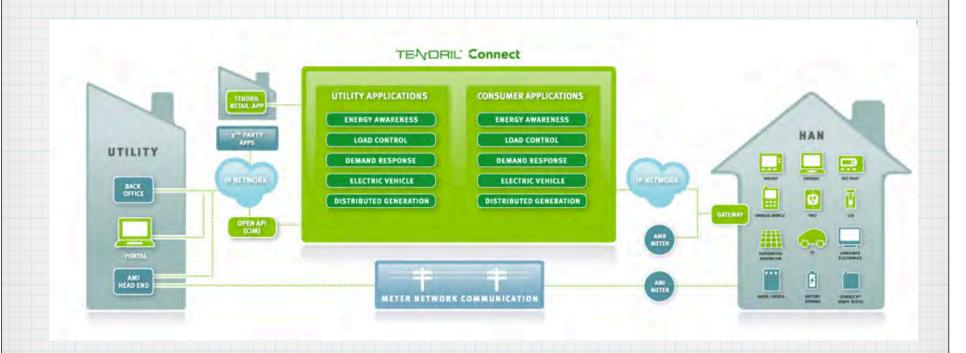


Partnering with Tendril

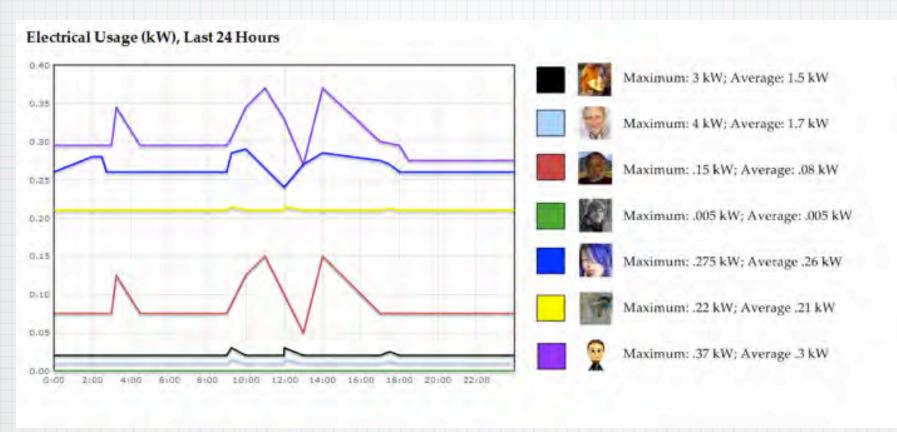




Tendril Platform

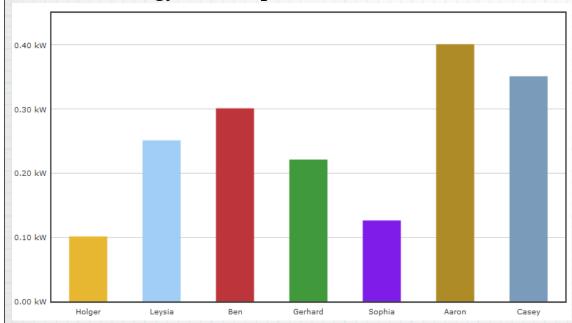


Extending Relationships beyond Consumer/Utility



Learning from/being motivated by other's experiences

Maximum Energy Consumption, 5/22/2011





<u>Casey</u> says: "Nice job, Holger! How do you keep your usage so low?"

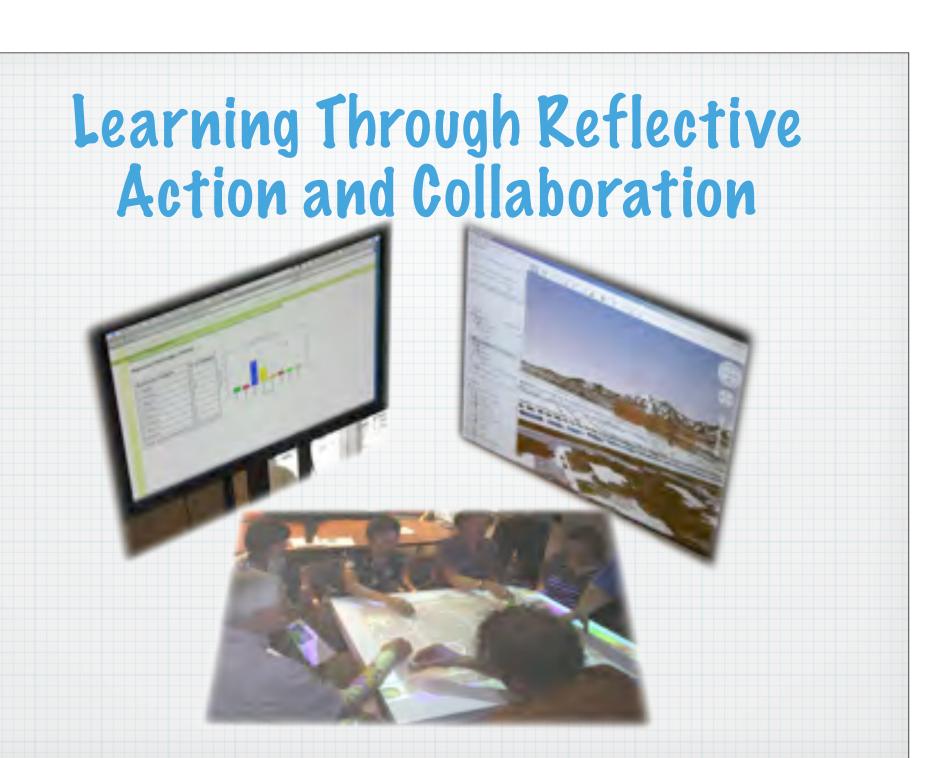


Holger says: "We don't have an airconditioner, washing machine, or dishwasher and keep lights off in the rooms we're not in."



<u>Aaron</u> says: Wow, I didn't realize that my usage maxed out so high. I'm going to try and be more cognizant of the lights that I leave on.

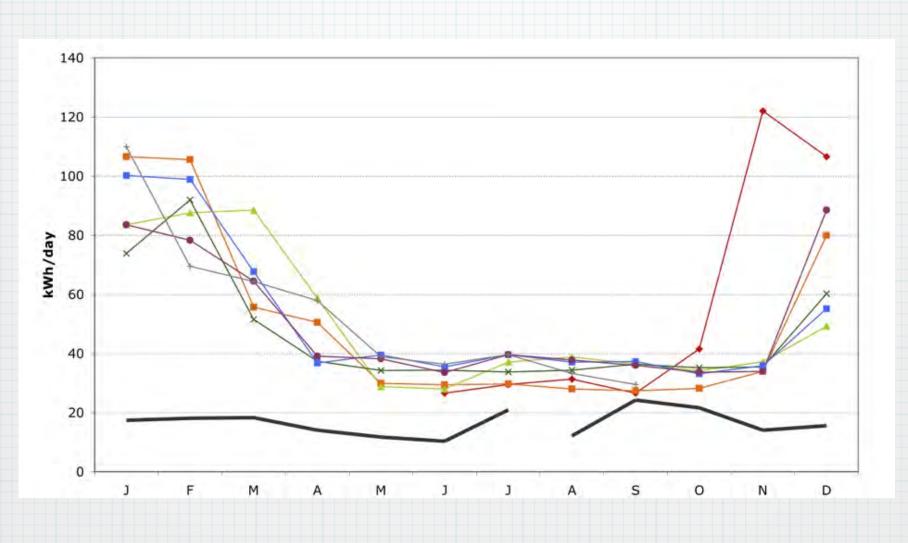
Add a Comment



How Many Households Like Mine?



Energy Profile of those Homes



Where Can We Save Energy?

