**LED Meeting 4/29/2010**

\*John, Shorty, Nathan, Bill, Kira, Alexis

* Photon Magazine Study on Solar Panel Efficiency- Possible Resource?
* Photon International!
* Physics Presentation at 4 about power project in Alaska 118 FDJS

Kira presented information acquired about solar panels and from Green Living Expo.

* Texas solar power company.
* Magazine study: Kilowatt hours per Kilowatt
* Sharp compared to Solar World is not the best choice as far as panels.
* Will send out excel spreadsheet about company, wattage, voltage
* P=V\*A (Higher voltage is more efficient)
* SOLAR WORLD: Less sunlight needed to get same amount of voltage! How many?

*\*WHAT'S NEXT?* We will plan using the most efficient standard panel, regardless of price. Kira knows how many panels it would take to generate power needed for our project. Go to roof and use David Stump's research to figure most efficient angle and location. Not only will we use Heather Hall roof, but possibly Scene Shop roof. An array positioned due south, will be our guide for configuring a solar set by Thurs. or Fri.

Nathan presented Wind information

* Wind speeds in G-Town, Nathan has not determined cut-off speed.
* Average wind speeds avg. 8-12 mph; nothing over 9 mph.
* Rusty estimated Energy Ball would generate 100 kW per month, but Nathan is working to come up with a formula/equation.
* Calculated 1000 kW hours per month in usage for Heather Hall (with efficient fixtures).
* One energy ball could only generate 1/10.
* Wind Speed, Density, Height, and Turbulence: Higher you go with energy ball, the less obstructions, the more energy can be generated. Even placing the ball on the roof, we’d want to extend it higher.
* Cosmetic appeal? How many?

Looked at LED fixtures already placed in Heather Hall space.

* John will ask for a lower color temperature to be placed in recessed lighting fixtures, for contrast.

Alexis wants to help with power point! Will work with John, Nathan, and Kira to combine info.

**Meet next Thursday and Friday to come up with a concrete design presentation!!! Really need to prepare for Monday**