LED Meeting 2/4/2010

Thursday, 11:30 PM

Attendance:

-John, Kira, Bill, Bob, Shorty, Shawn, Alexis

- Guest speaker: Tom Norrel

-Tom discussed the benefits of using micro-inverter with solar panels.

15 micros on 20 AMP breaker.

-Shorty said the feedback on commercial LED usage is poor, according to the supply warehouse; failure within 5 years.

-NEW TECHNOLOGY: Diamond dusted LED works in extreme conditions. No matter how much power you feed them, they get brighter and brighter without frying.

-National average for system complete is $9/watt.  
We would be looking at about $6.50/watt due to our roof & conditions of installations.

-GroSolar & Zepp: Producing solar panels that directly connect to hardware- simplistic. Complex relationships between anodized aluminum rack and stainless steel (soft, tough, corrosion resistant) hardware.

- Photovoltaic panels for any direction with 5 hours of sunlight. Normally Latitude 30° (+ or – 15 for winter and summer).

- Canadian (polycrystalline, pebble glass cover) solar panels can hold a stronger load, more dependable. Canada= snow, Texas= wind

-95% of photovoltaic systems can be grid-tied, but it depends on need for battery backup.

- PVcalc.com, enphase.com

-Green Mountain carries energy from month-to-month. Money you pay them goes to buy GREEN energy.

- Have reading of Heather Hall; theatrical (dimming panel) & fluorescent lighting. Need HVAC, sound reading. Need to formulate an equation to completely read the usage of the room.