

## **BRIGHT GREEN IDEAS**

### **Energy Saving Tips : Lighting**

- Turn off lights when not in use or use occupancy (motion) Sensors in interior spaces.
- Time Controls - used where predictable scheduling is possible.
- Photoelectric controls - dimming, switching lights on/off in response to daylight.
- Replace incandescent light bulbs with compact fluorescent lamps(CFL's) wherever appropriate. CFL's cost about 75% less to operate, and last about 10 times longer.
- Install switch plate occupancy sensors in proper locations to automatically turnoff lighting when no one is present, and back on when people return.
- Adjust lighting to your actual needs; use free "daylighting."
- To prevent glare, eyestrain, and headaches, do not over-light. Too much light can be as bad for visual quality as too little light - and it costs a lot more.
- Business owners should install ENERGY STAR exits lights. These exit signs can dramatically reduce maintenance by eliminating lamp replacement and can save up to \$10 dollars per sign annually in electricity costs while preventing up to 500 pounds of greenhouse gas emissions.
- Business owners should consider upgrading to T8 fluorescent lamp tubes with solid-state electronic ballasts that are more efficient than older T12 tubes with magnetic ballasts.

### **Photovoltaics: Several Home and Commercial Applications**

- Lighting, walkways, remote pathways, car ports etc.
- T-8, T-5 fluorescent lighting
- DC Lighting for larger indoor or outdoor public areas, retail applications
- DC/AC to produce the brine for ice (arenas)
- Solar Thermo – Hot water created from the sun could be used for winter sidewalks, steps, swimming pools, saunas, and radiant heating in new building applications
- Drive pumps for irrigation system using water from river, retention ponds, or geo thermal applications