

# **2019 PWR SWATeam Recommendation #2**

Name of SWATeam: PWR

SWATeam Chair: Dr. Timothy D. Stark

Date Submitted to iSEE: May 1, 2019

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## **Title: LED/CFL Lightbulb Replacement**

### **Specific Actions/Policy Recommended (a few sentences):**

- The PWR & ECBS SWATeams suggest a switch from conventional incandescent light bulbs to LED or CFL light bulbs
- This switch would occur during REPLACEMENT of expired bulbs in all buildings and/or during remodeling. Such a switch needs to be implemented gradually, i.e., replacing the current incandescent lightbulbs as they stop working, with lower energy and longer life CFL bulbs.

### **Rationale for Recommendation (a few sentences):**

LED/CFL lightbulbs utilize less energy than conventional lightbulbs and typically last much longer than alternative types of lightbulbs. A long-term investment in LED/CFL bulb upgrades would save energy and reduce the consumption of lightbulbs.

### **Connection to iCAP Goals (a few sentences):**

The use of LED/CFL lightbulbs in place of incandescent lightbulbs would save energy, money, and resources over the long-term, due to the increased lifespan of LED/CFL lightbulbs and lower energy usage. They do not differ greatly in cost and can be purchased in bulk via Purchasing.

This recommendation is directly related to Objective 6.2 of the iCAP goals. Objective 6.2 of the iCAP Goals (Reduce municipal solid waste (MSW) going to landfills) requires reducing nondurable goods purchases, effectively reusing materials, and recycling. (In the latter category, campus will increase the diversion rate of MSW to 45% by FY20, 60% by FY25, and 80% by FY35, while also increasing the total diversion rate to 90% by FY20 and 95% by FY25. MSW sent to landfills should decline to 2,000 tons annually by 2035.)

### **Perceived Challenges (a few sentences):**

With a recommendation like this, the incandescent lightbulbs that will eventually be used up need to be properly disposed of. This will be mitigated by a plan for disposal and perhaps require some external funding.

### **Suggested unit/department to address implementation:**

F&S (electricians) & Purchasing

### **Anticipated level of budget and/or policy impact (low, medium, high):**

Budgetary Impact: Low

Policy Impact: Low

Individual comments are required from each SWATeam member (can be brief, if member fully agrees):

Team Member Name	Team Member's Comments
Timothy D. Stark	I think this is an excellent recommendation and has the potential for significant energy and cost savings.

William Rose	<i>Not available for comment.</i>
Robert McKim	I agree with Tim.
Macie Sinn	I also think this is a great recommendation and simple implementation for long-term benefit.
Aaron Finder	With the minimal added expense, to me, it's really a no-brainer.
Maddy Liberman	Not only does this save energy, it also saves money and it's easy.
Neal Shannon	<i>Not available for comment.</i>
Sowmiya Raju	I think it's a great recommendation.

**Comments from Consultation Group (if any; these can be anonymous):**

None

**Explanation and Background (can be supplied in an attachment):**

We are looking at all ways to reduce waste, including waste that arises from energy-consumption; also at all ways to make purchasing more sustainable. This recommendation will contribute to both goals.

HD Supply would be the supplier of the CFL and LED bulbs so there is a possibility of a bulk discount to further reduce costs and increase savings.