

# **2019 PWR SWATeam Recommendation #3**

Name of SWATeam: PWR

SWATeam Chair: Drs. Timothy D. Stark

Date Submitted to iSEE: May 1, 2019

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## **Title: Use of Motion Sensor Lighting**

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

- The PWR & ECBS SWATeams kindly request the installation of Motion Sensor Lighting in all buildings. This would be done gradually so F&S does not become burdened by the switch. The main targets for motion sensor lighting in buildings would be public spaces, lobbies, hallways, stairwells, rest rooms, discussion/collaboration spaces, classrooms, etc.
- In conjunction with ECBS, PWR would like to recommend that all campus buildings be gradually retrofitted to use motion sensor lighting wherever possible, as well as enforce the policy for new buildings and remodels to use motion sensor lighting. We suggest that the installation of motion sensors should be the default option and to be pursued unless there is a reason not to do so.
- This switch would occur during mainly during replacement and upgrading of light switches in all buildings and or during remodeling. Such a switch needs to be implemented gradually, replacing the current switches as they stop working or become obsolete, which will lower energy usage.
- The University would procure the motion sensors through a contracted vendor like Grainger or HD Supply. Ordering in bulk, which would give Purchasing more leverage to negotiate a bulk discount.

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

PWR believes that reducing energy waste is an important part of reducing waste on campus.

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

Objectives 2.2, 2.3, and 2.4 of the iCAP Goals are addressed with this recommendation, which are:

- Objective 2.2. (Identify the highest achievable energy standards for new buildings and major renovations and incorporate these into the campus facility standards by the end of FY16); Objective 2.3 (Strengthen centralized conservation efforts focusing on building systems, to achieve a 30% reduction in total campus buildings energy use by FY20. This includes meeting the LED Campus commitments), and
- Objective 2.4 (Engage and incentivize the campus community in energy conservation, including a comprehensive energy conservation campaign, with at least 50% of units participating by FY20) all relate to this recommendation above in terms of ECBS.
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In terms of PWR, the focus on purchasing sustainable products and reducing energy waste both fit within the mission of the Purchasing, Waste, and Recycling SWATeam.

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

The costs of retrofitting older buildings may cause slow progress. There may be issues with motion sensor lighting in some areas (examples include laboratories and some classrooms). Also, some inconvenience may occur due to motion sensors sometimes turning off lighting when no one moves in the room.

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

F&S (electricians) & Purchasing

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

Budget impact: Medium

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 savings.                       |
| William Rose     | <i>Not available for comment.</i>   |
| Robert McKim     | This will be a valuable contribution to achieving our energy goals.   |
| Macie Sinn       | Another great recommendation for more energy savings!   |
| Aaron Finder     | I agree with Robert.  |
| Maddy Liberman   | I agree with all of the above.  |
| Neal Shannon     | <i>Not available for comment.</i>   |
| Sowmiya Raju     | I agree with everybody else; I also think that everybody should take responsibility for turning off the light switches. |

**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.