

**University of Redlands
Facilities-directed Sustainability Projects**

Facilities Management is continually working to improve campus sustainability. Please read below for details regarding campus implementations.

Composting

The University is currently researching the feasibility of composting all post-consumer waste generated on campus. Students have also expressed interest in such a program. Currently, students have a small-scale composting program in the SURF Garden. Composting all post-consumer waste is a much larger operation and may require increased labor and effort.

The University is looking into composting opportunities that will address the following concerns:

- Minimizing odors generated from the composting process
- Handling the amount of post-consumer waste that is generated on campus
- Understanding the labor required to turn and rotate material, especially when students are off campus during academic break periods
- Acquiring funding to manage the process

Recycling

The University was successful in recycling over 49 tons of material during the 2015/16 fiscal year. This was 98,360 pounds of waste diverted from the landfill.

Sum of Tons Commodity	Total Tonnage	Total Pounds
Glass	0.63	1260
Mix Paper	2.77	5540
Cardboard	45.57	91140
Plastic – PET	0.21	420
Grand Total	49.18	98,360

Energy Efficient LED Lighting

Current estimates suggest that the University of Redlands could save over \$22,000 a year in electricity costs by retrofitting buildings with energy efficient LED lighting. The latest LED project will replace the existing fluorescent light fixtures in Gregory and Lewis Halls’ interior spaces, and the LED lights. In addition, the exterior lights in the Science Center courtyard will also be retrofitted to LED and will have a color rendering of 3000 (warm light) Kelvin.

Solar Panels

Facilities Management is working to expand the power of solar throughout campus. It would serve the dual purposes of saving money long-term and significantly reducing our carbon footprint. Currently, we have solar on Appleton and a lone panel on Lewis. Facilities is looking into the feasibility of adding solar parking structures to campus parking lots.

The largest concern with solar is how the increased electrical production provided by the solar panels will impact the performance of our co-generation power plant. The current co-generation system cannot run below 80% of its operating capacity of 1500 kilowatts per hour (kWh) or it will overheat and over-pollute emissions. There are times during the year that the campus demand is close to the 80% range. Therefore, with solar introduced to the campus grid, it will be very likely that the engine will not operate. This will have a major financial impact as the solar will not be enough to offset the 1500 kWh and the University will need to purchase more electricity from Southern California Edison.

Water Conservation

See Attachment: Water Conservation and Drought Response