

The background of the slide features a large, semi-transparent watermark of the Stanford University seal. The seal is circular and contains the text "LELAND STANFORD JUNIOR UNIVERSITY" around the top edge, "1891" at the bottom, and "DIE LUFT DER FREIHEIT" in the center. In the center of the seal is a redwood tree. The entire slide has a solid red background.

Sustainability Ratings for Stanford Buildings

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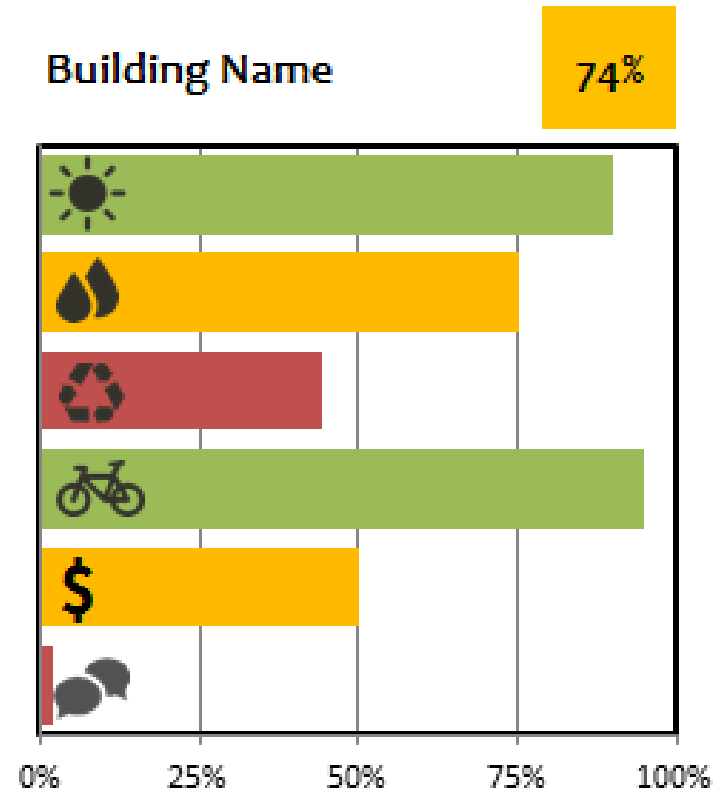
Assessments Program Manager

Office of Sustainability

Stanford University

Overview

- The **Sustainability Building Rating** system is tool that evaluates a Stanford building's sustainability performance in 6 categories in a balanced scorecard:
 - Energy
 - Water
 - Waste
 - Transportation
 - Purchasing
 - Occupant Engagement



Background and Benefits

CONTEXT

- Stanford has many sustainability programs at the campus-wide scale (SESI, building retrofits, lake water for irrigation, green cleaning policies, etc)
- Industry tools show Stanford's buildings as a top performers – all of Stanford's buildings perform at a minimum of a **LEED-EBOM Gold** level
- Opportunities still exist to connect programs to decisions and further action

PURPOSE

To create a building-level sustainability assessment tool that will:

- Identify high performers and target buildings for improvement
- Identify where additional resources need to be invested
- Inform decision making and motivate action

Process

1. Collected performance data for six sustainability areas
2. Set targets for each building type in each sustainability performance area (guided by industry standards such as LEED and AASHE STARS)

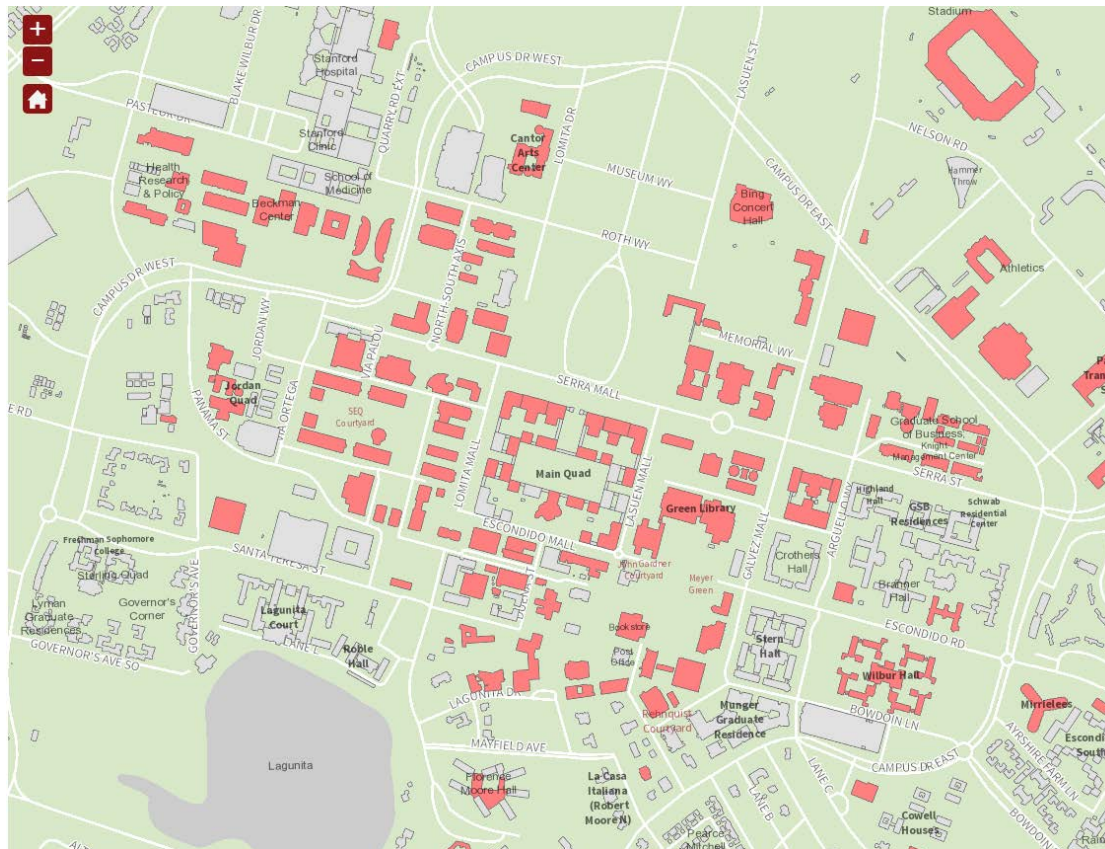
Performance Category	Weighting Allocation	Performance Metric	Target
Energy	40%	energy use / square foot / year	Building specific (based on technical potential of economically feasible efficiency measures in building)
Water	15%	% water reduction over 10-year period	Building specific (based on technical potential of economically feasible efficiency measures in building)
Waste	10%	% waste diverted from landfill	75% (State Goal)
Transportation	20%	% employees that don't drive alone	70%
Purchasing	5%	% sustainable spend of office supplies	50%
Occupant Engagement	10%	% of building occupants that have taken sustainability pledge	90%

Process

3. Evaluated each building's progress towards targets on scale of 0 to 100%
4. Assigned color label to each performance category
 - **Red:** 0 – 50% progress towards target
 - **Yellow:** 51 – 90% progress towards target
 - **Green:** The building is very close to meeting its target or has already surpassed it (90% or more)
5. Assigned color label to whole building sustainability performance based on weighted average of performance in each category
6. Buildings categorized by school and presented to Administrative Deans

Results

135 building ratings published on Sustainable Stanford map:
<https://sustainable.stanford.edu/buildings>



Results – FY2016 Ratings

Category	Maximum Score		Minimum Score		Average Score		Top Performers	
	Lab	Classroom / Office	Lab	Classroom /Office	Lab	Classroom /Office	Lab	Classroom/ Office
Energy	95%	110%	43%	44%	78%	86%	Mech. Eng. Labs/Shops, Huang	Li Ka Shing, Geology Corner
Water	100%	100%	60%	72%	81%	87%	Engineering Quad Buildings	Medical School Office Building, Neukom
Waste	88%	94%	18%	12%	41%	43%	Y2E2, Huang	Graduate School of Education
Transportation	100%	107%	28%	0%	73%	70%	HEPL, Gilbert, Varian Physics	Many Main Quad buildings
Purchasing	103%	100%	0%	12%	33%	44%	Mech. Eng. Lab, Blume Earthquake	Stanford Daily, Bing Wing Library
Occupant Engagement	49%	111%	0%	0%	7%	12%	Gilbert, Huang	Environmental Safety Facility
Overall	78%	92%	40%	47%	63%	67%	Y2E2, HEPL	Knoll, Li Ka Shing

Engagement for improvement: Departmental Sustainability Action Plan

Recommended actions for each building with financial analysis

- **Low-hanging fruit:**
 - easy to implement
 - no upfront or ongoing cost from the department
 - very little departmental staff time.
- **Ripening efforts:**
 - may require the department to fund the capital costs upfront with the opportunity to apply for a full or partial rebate
 - may require a small ongoing resource or staff time commitment.
- **Deep green:**
 - require either a significant upfront investment by the department
 - or incur a sustained added cost to the department
 - or require committed staff time.

Engagement for improvement: Targeting buildings during seasonal campaigns

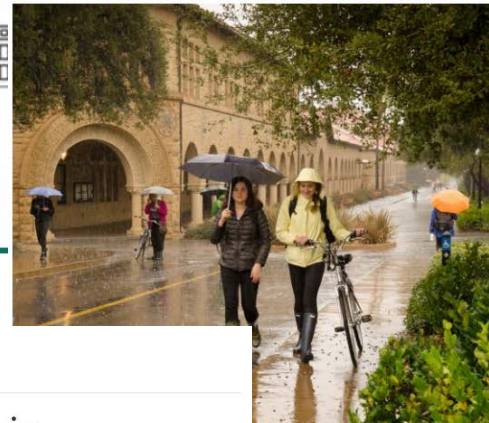


CARDINAL GREEN BUILDINGS

SAVE ENERGY THIS FALL




\$4000 in Participation Prizes



 Cardinal Green

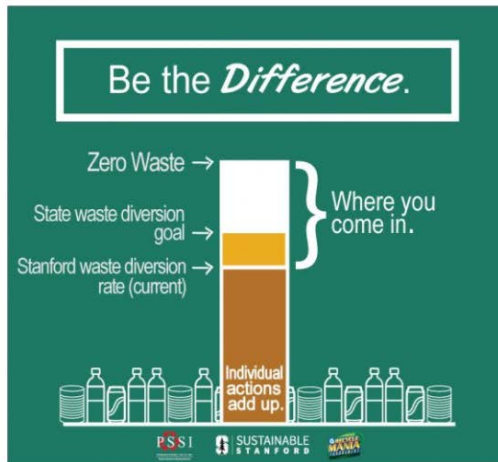
Water Wise

GOT RAIN? NOW WHAT...

Recent heavy rains have provided a welcome change from the past four years of record-breaking drought in California. Stanford's award-winning water conservation program rose to the challenge of meeting—and exceeding—the state's conservation mandate, reducing potable water use on campus by 49% from a 2001 baseline through innovative technologies and the cooperation of the campus community. Learn more about California's fluctuating water supplies and what it means for the state of Stanford's water supplies. Visit [the new water web site](#) to find out more. You can get involved in ecology and water conservation projects during a special Earth Day service opportunity!

SIGN UP TODAY

Support water projects and volunteer for Earth Day



 Cardinal Green

RecycleMania

Throughout February and March, Stanford competes against 400+ colleges and universities across the country in an effort to waste less, and recycle and compost more. During the competition, Stanford reports recycling and trash tonnage, and is then ranked among all participating colleges and universities. The effort offers an opportunity to engage the campus in waste reduction efforts, especially as the university is focused on meeting the California state target of 75% waste diversion by 2020. While Stanford has historically performed well in the competition, the campus diversion rate has hovered around 65% for a few years now, so meeting this goal will take everyone pitching in to put their waste in the right bin!

THANK YOU!

The pledge form will reopen again next year