FACT SHEET: STANFORD’S INTERNAL BUILDING SUSTAINABILITY RATING

SUSTAINABILITY OPPORTUNITY
Stanford implements many green building practices on a campus-wide level. The university supports major ongoing initiatives to reduce energy and water use, apply stringent environmental standards to all new buildings, encourage sustainable living, promote low-impact transportation, conserve natural resources, and decrease waste. As a result, all of Stanford’s buildings perform at a LEED-EBOM Gold level, and many perform at the higher certification levels. However, there are still opportunities to increase building sustainability performance, and Stanford has developed an internal building sustainability rating system to identify high performers and target buildings for improvement, identify where additional resources need to be invested, and motivate action.

PROGRAM OVERVIEW
The building sustainability rating system evaluates a building’s sustainability performance in the following six categories: Energy, Water, Waste, Transportation, Purchasing, and Occupant Engagement. Each category has a target performance value and the graph demonstrates how close the building is to achieving the target.

The overall building rating is based on a weighted average of the individual performance categories. Table 1 shows the weighting allocated to each category. Each building also receives a detailed report that includes building-specific targets, comparison to past years, and sustainability program participation.

METHOD
Every year the Office of Sustainability collects data for each of the six performance categories. The current ratings reflect data from fiscal year 2018. The data is used to calculate the performance metric.

The Office of Sustainability collaborates with campus content experts to set targets for each category. The target is guided by national sustainability industry benchmarking programs such as Leadership in Energy and Environmental Design (LEED) Certification and Association for the Advancement of Sustainability in Higher Education’s Sustainability Tracking, Assessment, and Rating System (STARS). Table 1 includes the data sources, performance metric, and target for each category.

The building is given a rating of green, yellow, or red based on the following criteria:

- **Green**: The building is very close to meeting its target or has already surpassed it (90% or more)
- **Yellow**: The building is at least half way to meeting its target, but has not yet achieved it (50% to 90%)
- **Red**: The building still needs significant work in order to achieve its target (less than 50%)
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Performance Category | Weighting Allocation | Data Sources | Performance Metric | Target
--- | --- | --- | --- | ---
Energy | 40% | Electricity, chilled water, and hot water building meters | energy use / square foot / year | Building specific (based on technical potential of economically feasible efficiency measures in building)
Water | 15% | Domestic water building meters | % water reduction over 10-year period | Building specific (based on technical potential of economically feasible efficiency measures in building)
Waste | 10% | Volume of waste recorded by waste hauling staff | % waste diverted from landfill | 75%
Transportation | 20% | Annual employee commute survey | % employees that don’t drive alone | 70%
Purchasing | 5% | Office supply purchases provided by Procurement | % sustainable spend of office supplies | 50%
Occupant Engagement | 10% | My Cardinal Green | % of building occupants that have taken sustainability pledge or participated in sustainability trainings | 90%

RESULTS

A total of 133 buildings have had their sustainability performance evaluated and posted on Stanford’s sustainability map. This year’s highest overall performers are the Carnegie Institute (90%) for lab buildings and 408 Panama for non-lab buildings. Table 2 provides a more detailed summary of the results.

<table>
<thead>
<tr>
<th>Category</th>
<th>Maximum Score</th>
<th>Minimum Score</th>
<th>Average Score</th>
<th>Top Performers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lab</td>
<td>Non-lab</td>
<td>Lab</td>
<td>Non-lab</td>
</tr>
<tr>
<td>Energy</td>
<td>99%</td>
<td>97%</td>
<td>52%</td>
<td>37%</td>
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<tr>
<td>Water</td>
<td>100%</td>
<td>100%</td>
<td>75%</td>
<td>75%</td>
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<tr>
<td>Waste</td>
<td>96%</td>
<td>110%</td>
<td>26%</td>
<td>17%</td>
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<tr>
<td>Transportation</td>
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<td>100%</td>
<td>67%</td>
<td>20%</td>
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<tr>
<td>Purchasing</td>
<td>99%</td>
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<tr>
<td>Occupant Engagement</td>
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<tr>
<td>Overall</td>
<td>90%</td>
<td>92%</td>
<td>56%</td>
<td>52%</td>
</tr>
</tbody>
</table>

MORE INFORMATION

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