

**OREGON STATE UNIVERSITY**  
**SUSTAINABILITY REPORT**  
Fiscal Year 2018

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**OSU SUSTAINABILITY OFFICE - FEBRUARY 2019**



**Oregon State University**  
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# Executive Summary

Oregon State University’s steady movement toward a more sustainable campus continued in Fiscal Year 2018 (FY18). OSU continues to garner national attention as a sustainability leader and strives to be in the top 10 colleges and universities in the United States for excellence in sustainability. Since FY10, OSU has relied on a common sustainability assessment system known as the Sustainability Tracking, Assessment and Rating System (STARS). Despite significant growth in student enrollment and building space, Oregon State has eight times achieved a Gold rating from STARS.

Fiscal Year	Submission Date	STARS Version	STARS Score
2010	Jan 31, 2011	1.0	69.74
2012	May 11, 2013	1.2	68.95
2013	Apr. 30, 2014	2.0	70.94
2014	Apr. 30, 2015	2.0	72.78
2015	Mar. 4, 2016	2.0	73.27
2016	Feb. 28, 2017	2.1	72.21
2017	Jan. 31, 2018	2.1	72.23
2018	Dec. 20, 2018	2.1	72.61

Table 1 - Oregon State University's STARS submissions

STARS Ratings (all versions)	
Platinum	1
Gold	94
Silver	138
Bronze	28
Reporter	12

Table 2 - STARS participant ratings

Figure 3 summarizes and trends OSU’s sustainability performance by STARS indicator subcategories for FY18.

OSU’s FY18 sustainability performance by STARS subcategories	
<b>Positive trending STARS subcategories, FY17-FY18</b> <ul style="list-style-type: none"> <li>• Purchasing</li> <li>• Investment &amp; Finance</li> </ul>	<b>Negative trending STARS subcategories, FY17-FY18</b> <ul style="list-style-type: none"> <li>• Waste</li> <li>• Water</li> <li>• Wellbeing &amp; Work</li> </ul>
<b>High performing STARS subcategories, FY18</b> <ul style="list-style-type: none"> <li>• Campus Engagement</li> <li>• Coordination &amp; Planning</li> <li>• Diversity &amp; Affordability</li> <li>• Research</li> </ul>	<b>Low performing STARS subcategories, FY18</b> <ul style="list-style-type: none"> <li>• Air &amp; Climate</li> <li>• Buildings</li> <li>• Food &amp; Dining</li> <li>• Energy</li> </ul>

Table 3 - performance by STARS subcategory

Certain low performing and downward trending areas are due to changes in data availability and other assessment factors, but most indicate actual opportunities for performance improvement. As with many large organizations, some improvements will be more easily attained than others.

In addition to the indicators discussed above, highlights and achievements from FY18 include the introduction of the Food in Culture and Social Justice Undergraduate Certificates and Graduate Minors in the OSU curriculum, the progress of the OSU Search Advocate Program, the continuation of the Corvallis-OSU partnership on community livability, among others.

# Introduction

Oregon State University (OSU) inched toward sustainability during Fiscal Year 2018 (FY18). OSU aspires to be in the top 10 colleges and universities in the United States recognized for excellence in sustainability. With performance that ranks OSU #15 in [Sierra's Club Cool Schools 2018](#), and puts OSU on [The Princeton Review's Guide to 399 Green Colleges: 2018 Edition](#), and other awards detailed below, sustainability has become business as usual for Oregon State. This report highlights accomplishments and provides a summary of indicators for the period between approximately July 1, 2017 and June 30, 2018. OSU's sustainability indicators are based largely on the now widely adopted [Sustainability Tracking, Assessment and Rating System](#) (STARS).

## Assessment, Awards and Recognition

Recognition from external entities has been key to the visibility of OSU's sustainability success. Increasing visibility is an effective recruiting tool for new students. In FY10, OSU for the first time participated in STARS, administered by the [Association for the Advancement of Sustainability in Higher Education](#) (AASHE). Used by over 800 higher education institutions, STARS is more comprehensive and standardized than any previous rating or ranking system and serves as the platform for the key performance indicators below. Critically, STARS is also the mechanism by which sustainability indicators are shared with external entities like Sierra Club and Princeton Review, saving staff time and resources, and standardizing – to the greatest degree practicable – the assessment and visibility process. In addition to the STARS assessment, OSU's awards, ratings and rankings for FY18 are listed below. Visit the [sustainability recognition page](#) for information on these and other awards.



The [Princeton Review's 2018 Guide to 399 Green Colleges](#): OSU was recognized for sustainability practices such as food sourcing, transportation, green building, and opportunities to focus on the environment and sustainability in curriculum and energy efficiency.

**League of American Bicyclists Bicycle Friendly University program:** OSU was awarded a Gold designation for providing a bicycle-friendly campus for students, staff and visitors.





**Sierra Club** gave OSU the highest green ranking in the state for its 2018 edition of "[Cool Schools](#)". This puts OSU 15th in the nation.

**Tree Campus USA:** OSU has been recognized seven years in a row since 2010 for efforts in effectively managing campus trees, developing connectivity with the community beyond campus borders to foster healthy, urban forests, and engaging students in learning opportunities centered on campus and community forestry events.



# FY18 Sustainability Highlights

## OSU Extension Assists with Statewide Outdoor School Program



Outdoor School is a transformative outdoor education experience for Oregon's 5th and 6th graders in the world's greatest classroom. Immersed in Oregon's natural landscape, students learn about themselves, their peers, the environment and natural resources, and leave with skills to prepare them for their future.

The opportunity to provide every 5th or 6th grade student in the state of Oregon an outdoor school educational experience became a reality in July 2017 when the Oregon Legislature formally approved \$24 million for the statewide Outdoor School program over the next two years. This followed Oregon voters'

approval of Ballot Measure 99 in November 2016, which designated funding and adoption of Senate Bill 439 codified into law as ORS327.390 by the 2015 Oregon Legislature. This law directed the OSU Extension Service to assist Education Service Districts (ESDs) and school districts to provide a statewide outdoor school program. Oregon is the only state that fully funds outdoor school for every 5th or 6th grader in the state, with impressive first year results: in the 2017-18 school year, Oregon's 30,739 participating Outdoor School students spent a total of 115,131 days outside. That is three-quarters of Oregon's eligible fifth- and sixth-grade students.

According to the OSU Extension Outdoor School 2017-18 year in review:

- Schools in all 36 Oregon counties participated
- 128 of the state's 197 school districts received funding
- Of the 385 funded schools, 82 were offering Outdoor School for the first time.

## OSU's Human Services Resource Center Launches Fresh Food Fridays

The Human Services Resource Center (HSRC) operates OSU's on-campus food pantry and Food Assistance programs like Mealbox. Students using HSRC services might be one or more of the following:

- Pell-eligible
- First Generation
- Former-Foster Youth
- TRiO or EOP participants
- Undocumented, DACA, or under-resourced international students
- Homeless, houseless or otherwise experiencing housing insecurity
- Experiencing situational poverty
- Prior recipients of the Free/Reduced Lunch program or other social safety net programs.





A new HSRC program launched Fall 2017 now provides additional access to fresh produce. Fresh Food Fridays features produce and other fresh items only. Produce served at Fresh Food Fridays comes from campus, community, and regional partners including the Linn-Benton Food Share, Growing Food Security, Food for All, Sage Garden, Mid-Valley Harvest, Organic Growers Club, and others. In its first year, Fresh Food Fridays has distributed fresh food to 272 households.

## Launch of Book “New Strategies for Wicked Problems”



Oregon State Scholars publish a new book, “New Strategies for Wicked Problems: Science and Solutions in the 21st Century”, a look into current problems that our society confronts on social, economic, political and environmental topics. This book is a series of articles that addresses these issues and proposes an assortment of problem-solving methodologies to confront them.

Appealing to a large crowd the book is for other scholars, students, policy makers, managers and anyone in our communities facing these “wicked” problems. From the school of Public Policy at Oregon State staff Edward Weber, Denise Lach and Brent Steel edited and compiled the essays into this book

## Oregon State Receives Grant to Reduce University Food Waste

Oregon State University was awarded \$27,372 from the Oregon Department of Environmental Quality’s Materials Management program to help the university reduce food waste.

This money has been used to incorporate [LeanPath](#) into the dining hall systems, tracking food waste by amount, type, cause, & cost, and allowing staff to make adjustments to prevent waste in the future. Currently, it is estimated that between 200,000 and 250,000 pounds of food waste are generated annually from dining halls. The hope is that LeanPath will raise awareness for how much food is wasted and generate opportunities to lessen OSU’s impact.



## Bedrock Lectures on Human Rights and Climate Change



In the months leading up to the [Permanent Peoples’ Tribunal on Human Rights, Fracking and Climate Change](#), Spring Creek Project presented the Bedrock Lectures on Human Rights and Climate Change. This online series featured leading scientists, attorneys, writers, community leaders, activists, and artists. Together, the lectures created a chorus of voices and ideas that invited audiences to imagine how everyone can build communities and live in a world where environmental crises are quickly recognized as human rights crises. The Bedrock Lecture were released each Wednesday from January 31 to May 30, 2018. The lectures were free and publicly available the website, social media channels, and at a weekly live-screening. In-person screenings of the Bedrock Lectures were held at noon each Wednesday in Bexell Hall.

## \$1 million NSF Grant Aids Energy Conservation Research

Hilary Boudet, an assistant professor of sociology who studies climate change and energy in the School of Public Policy in OSU's College of Liberal Arts was awarded a \$1 million grant from the National Science Foundation's Smart and Connected Communities Program to continue and expand her work on household energy conservation interventions. The goal of the three-year grant is to teach children, young adults and their families the value and importance of reducing their energy use and to use technology and data visualization techniques from engineering to better track and understand individuals' energy use and conservation efforts.



## OSU-Cascades Researcher Awarded \$2 Million for Developing Water Desalination Technology



The U.S. Department of Energy awarded two million dollars, the largest award in OSU-Cascades history, to energy systems engineering professor Bahman Abbasi. Dr. Abbasi has used the funds to lead a team of researchers from four different universities in a three-year project to develop a new solar-thermal desalination technology. Abbasi's research indicates the potential for a "modular, scalable, portable, and economical" technology that will transform salt water into drinkable fresh water. The new technology will theoretically be portable enough to be transported by vehicle to low-access areas. The technology will be powered by either a local grid or solar panels. Abbasi's vision is to aid in the transition to a sustainable "energy-water-food" future. The team believes that the new system will also be economically sustainable, with the cost of producing fresh water less than the retail price of drinking water in the U.S.

## OSU hosted the We Are the Change Makers 2017 Conference

The We Are the Change Makers' conference was a forum for a diversity of stories and opinions, an invitation to tell others how to respond to the call to action, and to listen to others. It was a safe place for everyone to speak, listen, and take in information beyond their own life experiences. It was a meeting of women and their allies to be a model for finding common ground, respecting others, and taking actions that benefit all people. The hope was for participants to leave with a stronger network, with new tools they can use for social justice, with inspiration and commitment to taking actions, however small or large, to effectuate positive change.



## OSU Celebrates Its 150<sup>th</sup> Years of History



On October 27, 1868, Corvallis College became the state's official land grant institution. Since then, OSU has grown from its first graduating class of three to over 31,800 students. Over the past 150 years, OSU's name has changed, its programs have multiplied and its facilities have expanded. But its mission to conduct world-leading research and to provide the highest quality education for the people of Oregon and beyond remains steadfast. Its impact resounds across Oregon and around the globe because OSU is OUT THERE, solving the world's most pressing challenges.



## OSU Extension Celebrates Its 100<sup>th</sup> Anniversary with the Construction of the OSU Extension Education Center

As OSU Extension celebrates 100 years of growing and evolving to meet the changing needs of residents, it is embarking on an ambitious plan to build an Extension Education Center on the Clackamas County Red Soils Campus in Oregon City. During the past century, more than 100 Extension Agents have served the County in five different building locations, none of which were designed to meet Extension needs. The current location, on Warner Milne Road in Oregon City, has been home to Extension since 1983. Clackamas County's population has doubled in the past 30 years and demand for Extension programs has risen as well. The Education Center is being designed to meet those needs. The new Education Center will be two stories and include about 22,000 square feet of indoor office and public areas, an expanded Master Gardener Clinic, a demonstration and teaching kitchen, and a conference facility seating up to 150. In addition, an outdoor teaching greenhouse, landscape and demonstration gardens, and environmental study areas will complement the site. The proposed building will be a state-of-the-science, all wood and energy efficient structure; it is expected to be the first cross-laminated timber building and the first net-zero public building in the county. If all goes as planned with County approval and the Oregon City permitting processes, the new building will break ground in the spring of 2019 and be complete the first part of 2020.



## OSU Extension Fire Education Program Expands



The severe fires in 2017 also provided a “teachable moment” for OSU Extension to bring objective information and education to groups that manage forests for fire. Extension is ramping up efforts with Oregon Department of Forestry and other agencies to deliver Wildfire Preparedness education programs around the County and State. Workshops, field assessments, and fuel reduction assistance in Clackamas County are helping people manage woodlands and neighborhoods for resilience to fire.

OSU Extension Forestry and Natural Resources is developing a new statewide program to deliver comprehensive fire education and outreach based on sound science. This builds on the complete Fire Science Core Curriculum published in 2017 along with the Citizen Fire Academy for training volunteers to be leaders in promoting fire preparedness in communities.

## Extension's Sustainable Tourism Program Expands

The Extension Tourism program with Oregon State University Extension and Oregon Sea Grant was expanded in 2017 with the addition of an Extension Tourism specialist Miles Phillips, serving the Oregon Coast. In each community, outdoor recreation and tourism opportunities are unique and deserve a custom response. OSU Extension now assists local organizations with customized evaluation and integration of tourism and outdoor recreation for sustainable economic development. This program listens and jointly creates ideas and actions to build business and community capacity and to achieve their goals.



## OSU Renamed Three Buildings to Promote Inclusivity

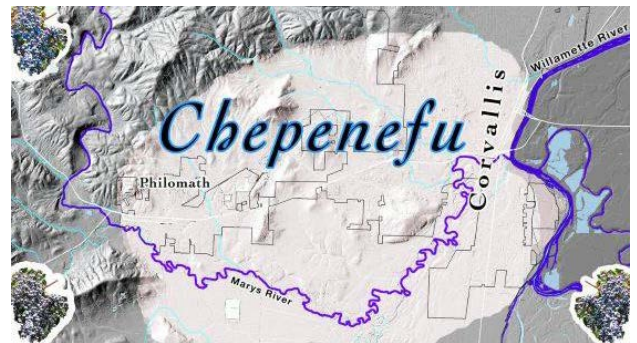


After a two-year process and several community discussions, Oregon State University President Ed Ray had renamed three buildings on campus whose previous namesakes have ties to historical racist positions or beliefs. Formerly known as Avery Lodge, Benton Hall and Benton Annex, these buildings are now known as Champinefu Lodge, Community Hall and the Hattie Redmond Women and Gender Center, respectively. Champinefu Lodge honors the contributions and history of Native Americans within the Willamette Valley and recognizes that federal lands deeded to the state of Oregon to create this university were taken from tribes that have lived in this region for many generations. The

word Champinefu is translated to mean “At the place of the blue elderberry”. Community Hall reflects the contributions of local residents in establishing the university, and helping it reach its 150th anniversary and excel as Oregon’s statewide university. The Hattie Redmond Women and Gender Center honors Hattie Redmond, a leader in the struggle for women’s suffrage in Oregon in the early 20th century. Her work is credited with laying the groundwork for the civil rights movement in Oregon in the mid-twentieth century.

## OSU Participated in the 1<sup>st</sup> Annual Chepenefu Lecture Series

The 2017 Chepenefu Lecture Series, produced and sponsored by the Marys Peak Group of the Sierra Club, honored the Chepenefu Kalapuya people who have inhabited the Marys River Valley (Corvallis, Philomath & Wren) for thousands of years and who continue their cultural traditions. Three lectures were offered in Fall term. OSU Assistant Professor in Ethnic Studies and author of *Native Space: Geographic Strategies to Unsettle Settler Colonialism*, Dr. Natchee Barnd, presented how indigenous communities and individuals sustain and create geographies while living in a colonial culture.



## Spring Creek Project co-organized the historic Permanent Peoples’ Tribunal Session on Human Rights, Fracking, and Climate Change



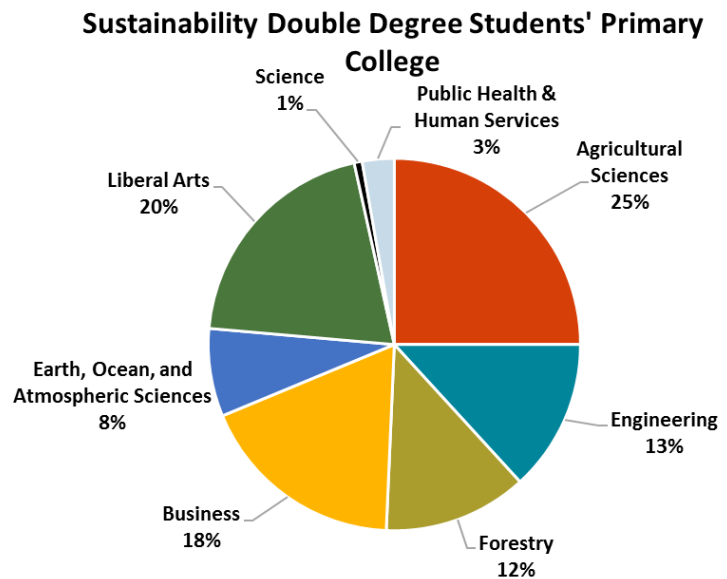
In partnership with Tom Kerns of the Environment and Human Rights Advisory and OSU’s Environmental Arts and Humanities Initiative, the Spring Creek Project co-organized the Permanent Peoples’ Tribunal Session on Human Rights, Fracking, and Climate Change. The Permanent Peoples’ Tribunal was established in Bologna in 1979 as a direct continuation of the Russell Tribunals on Vietnam (1966-67) and Latin America (1973-76). It was proposed that these celebrated

tribunals be transformed into a permanent institution that could become an instrument and platform to give recognition, visibility and a voice to the peoples suffering violations of their fundamental rights, victims who were marginalized in

international law. Since then, it has conducted a series of high-profile hearings around the world to determine whether human rights standards were abridged.

## The Sustainability Double Degree

The Sustainability Double Degree (SDD) is up and running on all three OSU campuses. The SDD exposes students to real-world problems and fosters knowledge, skills and abilities to address these problems in communities and workplaces. In step with the interdisciplinary nature of sustainability, the degree is designed to complement all OSU degree programs and be earned as a second bachelors in addition to a major area of study. Students take a sustainability "core" consisting of five courses: environmental science, sustainable communities, sustainability assessment, and a choice of several economics and sociology courses. In the academic year 2017-2018, there were a total of 144 students who were enrolled in the SDD consisting of Corvallis campus students (58%), Ecampus students (38%) and Cascades Campus students (4%). The majority of SDD students have senior class standing (69%), 19% are juniors, 8% are sophomores, and 3% are first-year. The inter-disciplinary SDD program includes students from all academic colleges as shown in the chart.



## The Sustainability Minor

The sustainability minor was first offered at OSU in Fall 2015. This minor's interdisciplinary approach teaches students to think critically about complex issues facing society and how to develop possible solutions to mitigate them. It includes core sustainability courses and tailored elective courses to expand students' knowledge and experience of their primary major in the context of sustainability principles and frameworks. Completion of the sustainability minor requires 27 credits beyond the 180-credit minimum for graduation. In the academic year 2017-2018, there were 65 students who were enrolled in the sustainability minor consisting of Corvallis campus students (63%), Ecampus students (14%) and Cascades Campus students (23%). The majority of students have senior class standing (57%), 34% are juniors, and 8% are sophomores, and 2% are freshmen.



## Center for Civic Engagement (CCE) Programs Create Culture of Sustainability

**Community Dialogues Initiative Launched.** Community Dialogues is a new initiative offered in partnership by Student Leadership & Involvement, Diversity & Cultural Engagement, and the Office of Institutional Diversity. Community Dialogues is a once-per-term series which seeks to cultivate connection and deep learning through exploration of critical and contentious issues. Utilizing the National Issues Forum Model it hopes to engage students, faculty, staff, and community members in dialogue which:

- Deepens understanding of critical issues and the tensions within them
- Encourages insight into different perspectives
- Creates connection between participants through their stories and experiences
- Guides exploration of personal ethics, morals, and values
- Inspires socio-political action, both individual and collective



In FY18, Community Dialogues hosted events on Climate Change, and Community Safety and Justice. Community Dialogues had 71 attendees, 58 students at the inaugural event on Climate Choices, on Thursday February 15<sup>th</sup>, 2018. There were 42 participants in the Community Dialogue on Safety and Justice on Monday April 30<sup>th</sup>, 2018.



**Seed to Supper Classes.** Seed to Supper is a 6 week, 6 part class to teach beginning gardening and cooking skills for low income students. The Human Services Resource Center and Center for Civic Engagement collaborated with and hosted Benton County Extension's Seed to Supper classes to empower low income students in basic cooking and gardening skills. In FY18 17 students attended demarcating a 400% increase from last year, FY17!

## Continued Excellence in Solid Waste Programs

**Campus Recycling** and its partners continued programming that moved OSU toward waste reduction. Specific highlights are below.

**Repair Fairs:** The Waste Watchers, a student volunteer team jointly coordinated by Campus Recycling and the Student Sustainability Initiative, ran their fourth year of an event series called the **Repair Fairs**. At these events, volunteers from the on- and off-campus community offered free repairs for common items such as appliances, bicycles, clothing and more. In FY18, three events were offered with an estimated 280 people bringing 151 items. The events also offered sustainability-focused demonstrations, with an estimated total attendance of 192 people.

**FY18 Residence Hall Move-Out Donation Drive:** Campus Recycling, Surplus Property and University Housing and Dining Services again coordinated a [donation drive](#) to give residents the tools to recycle and donate materials they do not want to bring home with them upon moving out. In FY18, 32,313 pounds of donations were collected and processed, much of which were given to local nonprofit organizations. These weights surpassed the original 30,000-pound goal and reached the third highest level since weight tracking began in 2010. Donations of food, toiletries, and school supplies increased 14% from last year and donations of clothing, shoes, and linens surpassed last year's donations by 39%. There was a general decrease in wood and housewares from last year. Reasons for this decrease are unknown, but may be due to more students taking these items home with them or fewer students using loft kits as compared to previous years.



## Continued Partnerships With the Corvallis Sustainability Coalition

Oregon State's extensive connections with and support of the [Corvallis Sustainability Coalition](#) included the OSU Sustainability Office again being the primary sponsor of the annual Sustainability Town Hall and many other activities:

- Staffing various committees and action teams, including the Coalition Steering Committee and Executive Committee
- Leadership of several action teams is coordinated by OSU staff, and leverages university resources through these channels
- Using the campus as a living laboratory for Coalition action team projects. Specifically, the Energy Action Team and Water Action Team have catalyzed opportunities in this way
- Promoting Coalition events to the campus community through a wide variety of channels.



# STARS Key Indicators

OSU continues to experience growth in enrollment and an overall increase in building square footage. Between FY10 and FY18, total student enrollment grew an astonishing 45.2%, from 21,969 to 31,905. Forty percent of this increase were “distance education only” students enrolled in Ecampus courses; they were not physically present at the Corvallis campus. University building square footage also increased. For 2010, we reported an estimated 7 million square feet. Using more accurate and comprehensive methods for FY18, that number is approximately 9.94 million square feet. Other changes in assessment methods are discussed in more detail throughout this report.

Short narratives for three report subsections follow:

1. areas of significant performance change (large improvements or declines)
2. areas of consistently high performance
3. areas for potential improvement.

The following table show OSU’s STARS category scores for FY18.

STARS 2.1 category name	Points Possible	FY18		FY17-FY18% Change
		Score	%	
Academics (AC)	58	46.40	80.0%	1.5%
Engagement (EN)	41	33.62	82.0%	0.0%
Operations (OP)	69	34.21	49.6%	-2.5%
Planning & Administration (PA)	32	22.98	71.8%	2.9%
<b>Total</b>	<b>200</b>	<b>137.21</b>	68.61%	0.4%

Table 4 - STARS version 2.1 summary table

These highest level category scores reveal:

- Superb performance in Engagement and, to a lesser extent, Academics
- Continued strong performance in Planning & Administration
- Weaker performance in Operations.

As shown in the tables above, OSU’s overall score increased 0.4% between FY17 and FY18.

Like the report for FY17, this report performs analysis at the STARS subcategory level. However, [past analyses](#) are still relevant to OSU’s progress. While this and subsequent reports focus on subcategory trends, readers are encouraged to explore the full set of credit scores in this document’s appendix.

## Subcategories of significant change between FY17 and FY18

This section details changes between FY17 and FY18 performance within STARS subcategories. “Significant change” is considered here to be greater than +/- 5% for STARS subcategory scores; those scores are bolded below in Table 5. The narratives following the table discuss possible reasons for subcategory score changes. As evident in the table, the number of points possible within a STARS subcategory heavily impacts that subcategory’s influence on the institutional score. A lower score in Grounds, for example, is more than offset by an improved score in Curriculum.

STARS 2.1 sub-category name	Points Possible	FY17		FY18		FY17-FY18
		Score	%	Score	%	% Change
Curriculum	<b>40</b>	29.96	74.9%	30.32	75.8%	0.9%
Research	<b>18</b>	15.55	86.4%	16.08	89.3%	2.9%
Campus Engagement	<b>21</b>	19.25	91.7%	19.25	91.7%	0.0%
Public Engagement	<b>20</b>	14.36	71.8%	14.37	71.9%	0.0%
Air & Climate	<b>11</b>	4.90	44.5%	4.96	45.1%	0.5%
Buildings	<b>8</b>	2.22	27.8%	2.22	27.8%	0.0%
Energy	<b>10</b>	3.78	37.8%	4.20	42.0%	4.2%
Food & Dining	<b>8</b>	3.16	39.5%	2.83	35.4%	-4.1%
Grounds	<b>4</b>	3.05	76.3%	3.05	76.3%	0.0%
Purchasing	<b>6</b>	<b>3.72</b>	<b>62.0%</b>	<b>4.04</b>	<b>67.3%</b>	<b>5.3%</b>
Transportation	<b>7</b>	4.37	62.4%	4.37	62.4%	0.0%
Waste	<b>9</b>	<b>6.10</b>	<b>61.0%</b>	<b>4.62</b>	<b>51.3%</b>	<b>-9.7%</b>
Water	<b>6</b>	<b>4.66</b>	<b>77.7%</b>	<b>3.92</b>	<b>65.3%</b>	<b>-12.3%</b>
Coordination & Planning	<b>8</b>	6.75	84.4%	7.00	87.5%	3.1%
Diversity & Affordability	<b>10</b>	8.37	83.7%	8.35	83.5%	-0.2%
Investment & Finance	<b>7</b>	<b>2.58</b>	<b>36.9%</b>	<b>3.67</b>	<b>52.4%</b>	<b>15.6%</b>
Wellbeing & Work	<b>7</b>	<b>4.36</b>	<b>62.3%</b>	<b>3.96</b>	<b>56.6%</b>	<b>-5.7%</b>
<b>Total</b>	<b>200</b>	<b>137.14</b>	<b>68.23%</b>	<b>137.21</b>	<b>68.61%</b>	<b>0.4%</b>

Table 5 - STARS subcategory comparison – areas of significant change.

### Purchasing (FY17-FY18 change: +5.3%)

Electronics, Cleaning Products, and Office Paper purchasing, all trended positively, in part due to better and more complete data thanks to analytical support from OSU’s procurement group and continued purchases of predominantly EPEAT Gold registered electronic equipment, Green Seal cleaning and janitorial paper products, and post-consumer recycled office paper.

### Waste (FY17-FY18 change: -9.7%)

Key credits in this subcategory trended slightly negative with lower scores for Waste Minimization and Diversion than FY17. In FY18, there was an increase in total waste generated at OSU, which resulted in a lower score for this subcategory. The table below shows progress in the Waste Minimization and Diversion credit.

	FY05 (base year)	FY17	FY18
Materials recycled	607.00	766.67	780.91
Materials composted	196.00	665.42	524.80
Materials reused, donated or re-sold	121.00	556.23	616.84
Materials disposed in a solid waste landfill or incinerator	3,105.00	1,580.57	2,155.38

Table 6 - Waste Minimization weights. All units are tons.

### Water (FY17-FY18 change: -12.3%)

It's valuable to look at a longer trend of the Water subcategory's largest (and only changing) credit: Water Use. Each year since FY10, OSU has held water consumption lower than the FY05 baseline established by STARS, which awards full points for the Water Use credit when institutions achieve a 30% or greater reduction relative to the baseline.

Reporting Year	Water Use (gallons)
FY05 (baseline year)	267,228,984
FY14	253,188,276
FY15	281,678,100
FY16	257,363,612
FY17	243,053,624
FY18	256,157,836

Table 7 - OSU Corvallis campus water consumption

FY18 showed an increase in consumption since FY17, hence lowering the score of the Water Use subcategory.

### Investment & Finance (FY17-FY18 change: +15.6%)

The positive change in this credit is due to more precise tracking of OSU's investment portfolio. For FY17, the OSU Foundation reported \$5.99M of \$5282M invested in businesses selected for exemplary sustainability performance. For FY18, the OSU Foundation reported \$100.86M of \$576.1M invested in businesses selected for exemplary sustainability performance.

### Wellbeing & Work (FY17-FY18 change: -5.7%)

The number of workplace injuries and occupational disease cases per 100 FTE employees increased from 2.15 in FY17 to 3.33 in FY18, resulting in a negative trend for the Wellbeing & Work credit. Institutions earn full points for having no recordable workplace injuries and occupational disease cases in the performance year.

## Subcategories of high performance

Categories of “high performance” are those where OSU achieved 80% or more of STARS points. Those subcategories are bolded in the table below.

STARS 2.1 sub-category name	Points Possible	FY17		FY18		FY17-FY18
		Score	%	Score	%	% Change
<b>Curriculum</b>	<b>40</b>	29.96	74.9%	30.32	75.8%	0.9%
<b>Research</b>	<b>18</b>	<b>15.55</b>	<b>86.4%</b>	<b>16.08</b>	<b>89.3%</b>	<b>2.9%</b>
<b>Campus Engagement</b>	<b>21</b>	<b>19.25</b>	<b>91.7%</b>	<b>19.25</b>	<b>91.7%</b>	<b>0.0%</b>
<b>Public Engagement</b>	<b>20</b>	14.36	71.8%	14.37	71.9%	0.0%
<b>Air &amp; Climate</b>	<b>11</b>	4.90	44.5%	4.96	45.1%	0.5%
<b>Buildings</b>	<b>8</b>	2.22	27.8%	2.22	27.8%	0.0%
<b>Energy</b>	<b>10</b>	3.78	37.8%	4.20	42.0%	4.2%
<b>Food &amp; Dining</b>	<b>8</b>	3.16	39.5%	2.83	35.4%	-4.1%
<b>Grounds</b>	<b>4</b>	3.05	76.3%	3.05	76.3%	0.0%
<b>Purchasing</b>	<b>6</b>	3.72	62.0%	4.04	67.3%	5.3%
<b>Transportation</b>	<b>7</b>	4.37	62.4%	4.37	62.4%	0.0%
<b>Waste</b>	<b>9</b>	6.10	61.0%	4.62	51.3%	-9.7%
<b>Water</b>	<b>6</b>	4.66	77.7%	3.92	65.3%	-12.3%
<b>Coordination &amp; Planning</b>	<b>8</b>	<b>6.75</b>	<b>84.4%</b>	<b>7.00</b>	<b>87.5%</b>	<b>3.1%</b>
<b>Diversity &amp; Affordability</b>	<b>10</b>	<b>8.37</b>	<b>83.7%</b>	<b>8.35</b>	<b>83.5%</b>	<b>-0.2%</b>
<b>Investment &amp; Finance</b>	<b>7</b>	2.58	36.9%	3.67	52.4%	15.6%
<b>Wellbeing &amp; Work</b>	<b>7</b>	4.36	62.3%	3.96	56.6%	-5.7%
<b>Total</b>	<b>200</b>	<b>137.14</b>	<b>68.23%</b>	<b>137.21</b>	<b>68.61%</b>	<b>0.4%</b>

Table 8 - STARS subcategory comparison – areas of significant change.

### Research (FY18 score: 89.2%)

With OSU’s Carnegie Classification as a high research intensity institution, and as one of only two land, sea, space and sun grant universities in the U.S., high scores in Research are not surprising. For FY18, OSU demonstrated engagement from 50.97% of departments that conduct research, while in FY17 that number was approximately 44%. The STARS target for full point allocation is 75% of departments that conduct research. For engagement at the individual faculty level, STARS awards full credit for the number of faculty doing sustainability research when 15% or more of faculty are engaged in sustainability research. For FY18, OSU had 39.06% of faculty engaged.

### Campus Engagement (FY18 score: 91.7%)

Oregon State continues to be a place of great opportunity for students who want to become engaged with campus sustainability projects, services and programs. OSU’s strong commitment to student engagement around sustainability, led by the Center for Civic Engagement and supported by Campus Recycling and the Sustainability Office, covered all student-oriented credits within this subcategory.

### Coordination & Planning (FY18 score: 87.5%)

As with each STARS assessment, OSU has attained full scores for having sustainability staff and committees. In STARS 2.1, the evaluation of sustainability in planning-related documents became much more robust and resulted in a 75%

score for the Sustainability Planning credit. Full points cannot be attained until the university develops plans with measurable outcomes that address dining services, purchasing, water, and investment.

**Diversity & Affordability (FY18 score: 83.5%)**

Oregon State continues to demonstrate strengths in the topics covered by this subcategory. Assessment of diversity initiatives continues to be qualitative and OSU has again scored full points in the diversity related credits of this subcategory. Previous 100% scores have declined slightly due the more rigorous and quantitative Affordability and Access credit, the indicators for which are listed below.

	FY17	FY18
The percentage of entering students that are low-income	32.2	34.0
The graduation/success rate for low-income students	64.3	55.9
The percentage of student financial need met, on average	65.2	69.6
The percentage of students graduating with no interest-bearing student loan debt	42.1	42.2

*Table 9 - Indicators that the institution is accessible and affordable to low-income students*



## Subcategories of potential improvement

This section details areas of potential score improvement and reasons for lower performance in some areas. Generally, subcategories for which the university scored 59% or fewer of available points are included in this section.

STARS 2.1 sub-category name	Points Possible	FY17		FY18		FY17-FY18
		Score	%	Score	%	% Change
Curriculum	40	29.96	74.9%	30.32	75.8%	0.9%
Research	18	15.55	86.4%	16.08	89.3%	2.9%
Campus Engagement	21	19.25	91.7%	19.25	91.7%	0.0%
Public Engagement	20	14.36	71.8%	14.37	71.9%	0.0%
Air & Climate	11	4.90	44.5%	4.96	45.1%	0.5%
Buildings	8	2.22	27.8%	2.22	27.8%	0.0%
Energy	10	3.78	37.8%	4.20	42.0%	4.2%
Food & Dining	8	3.16	39.5%	2.83	35.4%	-4.1%
Grounds	4	3.05	76.3%	3.05	76.3%	0.0%
Purchasing	6	3.72	62.0%	4.04	67.3%	5.3%
Transportation	7	4.37	62.4%	4.37	62.4%	0.0%
Waste	9	6.10	61.0%	4.62	51.3%	-9.7%
Water	6	4.66	77.7%	3.92	65.3%	-12.3%
Coordination & Planning	8	6.75	84.4%	7.00	87.5%	3.1%
Diversity & Affordability	10	8.37	83.7%	8.35	83.5%	-0.2%
Investment & Finance	7	2.58	36.9%	3.67	52.4%	15.6%
Wellbeing & Work	7	4.36	62.3%	3.96	56.6%	-5.7%
<b>Total</b>	<b>200</b>	<b>137.14</b>	<b>68.23%</b>	<b>137.21</b>	<b>68.61%</b>	<b>0.4%</b>

Table 10 - STARS subcategory comparison – areas of significant change.

Because they have been discussed previously in the subcategories of significant change section of this report, the following subcategories will not be included in the discussion here:

- Waste
- Investment & Finance
- Wellbeing & Work

### Air & Climate (FY18 score: 45.1%)

In the Air and Climate subcategory, ten of the eleven available points fall within the Greenhouse Gas (GHG) Emissions credit, and OSU obtained 3.96 points for FY18. As shown in OSU's [annual greenhouse gas inventory reports](#), gross emissions decreased since FY17, mainly due to decreased consumption of purchased electricity, largely attributable to the reconstruction of Peavy Hall, taking that building offline during the reporting period, milder than average weather and retro commissioning projects on various buildings around campus. . President Ray's April 2007 signing of the Carbon Commitment has motivated some action and OSU has been able to capitalize upon other opportunities since 2007. A large portion of OSU's reduction is a result of the Energy Center, OSU's cogeneration facility that produces nearly half of the Corvallis campus' electricity and all steam used for building heat. With cogeneration, or combined heat and power, a majority of steam is created from the "waste" heat that is inherent with the electrical generation process. By capturing this waste heat, efficiencies increase.

## **Buildings (FY18 score: 27.8%)**

The Buildings subcategory continues to be a challenge because OSU has no buildings certified under a green building rating system for existing buildings, like [LEED® for Existing Buildings: Operations & Maintenance \(O&M\)](#) and/or operated and maintained in accordance with formally adopted sustainable operations and maintenance guidelines and policies that cover all of the following:

- Impacts on the surrounding site
- Energy consumption and building-level energy metering
- Usage of environmentally preferable materials
- Indoor environmental quality
- Water consumption and building-level water metering

## **Energy (FY18 score: 42.0%)**

FY18 saw 1,152,692.74 million Btu (MMBtu) of energy consumed while 1,192,941.4 MMBtu were consumed in FY17. This decrease in energy consumption was partly due to decreased electricity use for this year, largely attributable to the reconstruction of Peavy Hall, taking that building offline during the reporting period, and milder than average weather. However, OSU still needs to reduce its building energy consumption per gross square foot by 50% to its baseline to get full credit for this category.

## **Food & Dining (FY18 score: 35.4%)**

Credits for this subcategory fall into two parts: one credit consolidates all food and beverage purchasing practices, while the second credit focuses on sustainable dining policies, commitment programs, and food waste prevention systems. Although the proportion of OSU food and beverage expenditures that meet sustainability criteria increased from 12.56% in FY17 to 14.00% in FY18, this percentage is far away from the 75.00% required to get the maximum amount of points for the Food and Beverage subcategory.

Data verification is difficult for food purchases using OSU's existing procurement system. A major factor contributing to a lower-than-verifiable scores in this subcategory is data availability. Institutional-scale food purchasing often presents insurmountable challenges in data and statistical granularity needed to make accurate assessments of food sourcing and sustainability.

# Appendix

## STARS 2.1 Credit Score Detail Table

	Points Possible	FY17		FY18		% Change
		Score	%	Score	%	
<b>Curriculum</b>	<b>40</b>	<b>29.96</b>	<b>74.9%</b>	<b>30.32</b>	<b>75.8%</b>	<b>0.9%</b>
AC-1: Academic Courses	14	14.00	100.0%	14.00	100.0%	0.0%
AC-2: Learning Outcomes	8	3.96	49.5%	4.32	54.0%	4.5%
AC-3: Undergraduate Program	3	3.00	100.0%	3.00	100.0%	0.0%
AC-4: Graduate Program	3	3.00	100.0%	3.00	100.0%	0.0%
AC-5: Immersive Experience	2	2.00	100.0%	2.00	100.0%	0.0%
AC-6: Sustainability Literacy Assessment	4	0.00	N/A	0.00	N/A	
AC-7: Incentives for Developing Courses	2	0.00	N/A	0.00	N/A	
AC-8: Campus as a Living Laboratory	4	4.00	100.0%	4.00	100.0%	0.0%
<b>Research</b>	<b>18</b>	<b>15.55</b>	<b>86.4%</b>	<b>16.08</b>	<b>89.3%</b>	<b>2.9%</b>
AC-9: Research and Scholarship	12	9.55	79.6%	10.08	84.0%	4.4%
AC-10: Support for Research	4	4.00	100.0%	4.00	100.0%	0.0%
AC-11: Open Access to Research	2	2.00	100.0%	2.00	100.0%	0.0%
<b>Campus Engagement</b>	<b>21</b>	<b>19.25</b>	<b>91.7%</b>	<b>19.25</b>	<b>91.7%</b>	<b>0.0%</b>
EN-1: Student Educators Program	4	4.00	100.0%	4.00	100.0%	0.0%
EN-2: Student Orientation	2	2.00	100.0%	2.00	100.0%	0.0%
EN-3: Student Life	2	2.00	100.0%	2.00	100.0%	0.0%
EN-4: Outreach Materials and Publications	2	2.00	100.0%	2.00	100.0%	0.0%
EN-5: Outreach Campaign	4	4.00	100.0%	4.00	100.0%	0.0%
EN-6: Assessing Sustainability Culture	1	0.00	N/A	0.00	N/A	
EN-7: Employee Educators Program	3	3.00	100.0%	3.00	100.0%	0.0%
EN-8: Employee Orientation	1	1.00	100.0%	1.00	100.0%	0.0%
EN-9: Staff Professional Development	2	1.25	62.5%	1.25	62.5%	0.0%
<b>Public Engagement</b>	<b>20</b>	<b>14.36</b>	<b>71.8%</b>	<b>14.37</b>	<b>71.9%</b>	<b>0.1%</b>
EN-10: Community Partnerships	3	3.00	100.0%	3.00	100.0%	0.0%
EN-11: Inter-Campus Collaboration	3	2.50	83.3%	2.50	83.3%	0.0%
EN-12: Continuing Education	5	5.00	100.0%	5.00	100.0%	0.0%
EN-13: Community Service	5	1.86	37.2%	1.87	37.4%	0.2%
EN-14: Participation in Public Policy	2	2.00	100.0%	2.00	100.0%	0.0%
EN-15: Trademark Licensing	2	0.00	N/A	0.00	N/A	N/A
<b>Air &amp; Climate</b>	<b>11</b>	<b>4.90</b>	<b>44.5%</b>	<b>4.96</b>	<b>45.1%</b>	<b>0.5%</b>
OP-1: Greenhouse Gas Emissions	10	3.90	39.0%	3.96	39.6%	0.6%
OP-2: Outdoor Air Quality	1	1.00	100.0%	1.00	100.0%	0.0%
<b>Buildings</b>	<b>8</b>	<b>2.22</b>	<b>27.8%</b>	<b>2.22</b>	<b>27.8%</b>	<b>0.0%</b>
OP-3: Building Operations and Maintenance	5	0.97	19.4%	0.97	19.4%	0.0%
OP-4: Building Design and Construction	3	1.25	41.7%	1.25	41.7%	0.0%
<b>Energy</b>	<b>10</b>	<b>3.78</b>	<b>37.8%</b>	<b>4.20</b>	<b>42.0%</b>	<b>4.2%</b>
OP-5: Building Energy Consumption	6	3.74	62.3%	4.15	69.2%	6.8%
OP-6: Clean and Renewable Energy	4	0.04	1.0%	0.05	1.3%	0.3%

<b>Food &amp; Dining</b>	<b>8</b>	<b>3.16</b>	<b>39.5%</b>	<b>2.83</b>	<b>35.4%</b>	<b>-4.1%</b>
OP-7: Food and Beverage Purchasing	6	1.16	19.3%	0.83	13.8%	-5.5%
OP-8: Sustainable Dining	2	2.00	100.0%	2.00	100.0%	0.0%
<b>Grounds</b>	<b>4</b>	<b>3.05</b>	<b>76.3%</b>	<b>3.05</b>	<b>76.3%</b>	<b>0.0%</b>
OP-9: Landscape Management	2	1.05	52.5%	1.05	52.5%	0.0%
OP-10: Biodiversity	2	2.00	100.0%	2.00	100.0%	0.0%
<b>Purchasing</b>	<b>6</b>	<b>3.72</b>	<b>62.0%</b>	<b>4.04</b>	<b>67.3%</b>	<b>5.3%</b>
OP-11: Sustainable Procurement	3	1.75	58.3%	1.75	58.3%	0.0%
OP-12: Electronics Purchasing	1	0.77	77.0%	0.92	92.0%	15.0%
OP-13: Cleaning Products Purchasing	1	0.86	86.0%	0.92	92.0%	6.0%
OP-14: Office Paper Purchasing	1	0.34	34.0%	0.45	45.0%	11.0%
<b>Transportation</b>	<b>7</b>	<b>4.37</b>	<b>62.4%</b>	<b>4.37</b>	<b>62.4%</b>	<b>0.0%</b>
OP-15: Campus Fleet	1	0.17	17.0%	0.17	17.0%	0.0%
OP-16: Student Commute Modal Split	2	1.42	71.0%	1.42	71.0%	0.0%
OP-17: Employee Commute Modal Split	2	0.78	39.0%	0.78	39.0%	0.0%
OP-18: Support for Sustainable Transportation	2	2.00	100.0%	2.00	100.0%	0.0%
<b>Waste</b>	<b>9</b>	<b>6.10</b>	<b>61.0%</b>	<b>4.62</b>	<b>51.3%</b>	<b>-9.7%</b>
OP-19: Waste Minimization and Diversion	8	5.10	63.8%	3.62	45.3%	-18.5%
OP-20: Construction and Demolition Waste Diversion	0	0.00	0.0%	0.00	N/A	N/A
OP-21: Hazardous Waste Management	1	1.00	100.0%	1.00	100.0%	0.0%
<b>Water</b>	<b>6</b>	<b>4.66</b>	<b>77.7%</b>	<b>3.92</b>	<b>65.3%</b>	<b>-12.3%</b>
OP-22: Water Use	4	2.66	66.5%	1.92	48.0%	-18.5%
OP-23: Rainwater Management	2	2.00	100.0%	2.00	100.0%	0.0%
<b>Coordination &amp; Planning</b>	<b>8</b>	<b>6.75</b>	<b>84.4%</b>	<b>7.00</b>	<b>87.5%</b>	<b>3.1%</b>
PA-1: Sustainability Coordination	1	1.00	100.0%	1.00	100.0%	0.0%
PA-2: Sustainability Planning	4	2.75	68.8%	3.00	75.0%	6.3%
PA-3: Participatory Governance	3	3.00	100.0%	3.00	100.0%	0.0%
<b>Diversity &amp; Affordability</b>	<b>10</b>	<b>8.37</b>	<b>83.7%</b>	<b>8.35</b>	<b>83.5%</b>	<b>-0.2%</b>
PA-4: Diversity and Equity Coordination	2	1.33	66.5%	1.33	66.5%	0.0%
PA-5: Assessing Diversity and Equity	1	1.00	100.0%	1.00	100.0%	0.0%
PA-6: Support for Underrepresented Groups	3	3.00	100.0%	3.00	100.0%	0.0%
PA-7: Affordability and Access	4	3.04	76.0%	3.02	75.5%	-0.5%
<b>Investment &amp; Finance</b>	<b>7</b>	<b>2.58</b>	<b>36.9%</b>	<b>3.67</b>	<b>52.4%</b>	<b>15.6%</b>
PA-8: Committee on Investor Responsibility	2	0.50	25.0%	0.50	25.0%	0.0%
PA-9: Sustainable Investment	4	1.08	27.0%	2.17	54.3%	27.3%
PA-10: Investment Disclosure	1	1.00	100.0%	1.00	100.0%	0.0%
<b>Wellbeing &amp; Work</b>	<b>7</b>	<b>4.36</b>	<b>62.3%</b>	<b>3.96</b>	<b>56.6%</b>	<b>-5.7%</b>
PA-11: Employee Compensation	3	1.90	63.3%	2.17	72.3%	9.0%
PA-12: Assessing Employee Satisfaction	1	0.38	38.0%	0.22	22.0%	-16.0%
PA-13: Wellness Program	1	1.00	100.0%	1.00	100.0%	0.0%
PA-14: Workplace Health and Safety	2	1.08	54.0%	0.57	28.5%	-25.5%