SUSTAINABILITY AT LOYOLA
through campus, curriculum
and community
Loyola University Chicago

- Total enrollment over 16,040
- 71 undergraduate majors and 71 minors
- 85 master's, 31 doctoral degrees, and 26 graduate-level certificate programs
- Largest Jesuit University in the United States
- Four main campuses: Lake Shore, Water Tower, Health Sciences, John Felice Rome Center
- Endowment of $650 M
- Annual operating budget of $440 M
- FY2013 Greenhouse Gas Inventory – 75,048 MT CO2e
Recent Sustainability Accomplishments

• Loyola achieved a Gold rating in the Association for the Advancement of Sustainability in Higher Education's Sustainability Tracking, Assessment and Rating System program
• The Institute of Environmental Sustainability was launched in 2013 and is leading such innovative initiatives as the Biodiesel program, Clean Air/ Clean Water monitoring, and the Healthy Homes Initiative
• Loyola has more green roofs than any other University in the Midwest
• Loyola’s Lake Shore Campus keeps over 18 million gallons of stormwater out of the combined sewer system, protecting the Chicago River and Lake Michigan
• Student led initiatives have changed programs and policies from a sustainability fund for student projects to a ban on bottled water and plastic bags to a community farmer’s market
Single Stream recycling
• E-waste Recycling Program
  – Over 97% EPEAT Certified equipment
• Water Bottle Refill stations
  – Over 80 stations on campus, over 1.7 million plastic bottles saved.
• RecycleMania - Loyola participates annually in this inter-campus competition
• Construction and Demolition Debris
  – Over 75% of all C+D waste is recycled per city ordinance
• Paper use reduction
  – Dyson and Xlerator hand dryers
  – DocFinity Paperless Office
  – Sakai Course Documentation Software
  – E-Portfolio Tools
  – No free printing anywhere on campus
  – Converting all lab printers to 100% recycled content paper

Think Green and Give
• Annual Green Move-out program kept 3,600 lbs of goods from the landfill by donating them to local charities

Green Procurement
• Waste reduction included in all Purchasing RFPs
• Office supplies delivered in reusable totes saving over 1,900 lbs of cardboard in first 6 months

Composting food waste
• All LakeShore Dining Halls on composting pre and post-consumer food waste
• Compost Bucket program for staff and student - Over 4,800 lbs collected in FY14
• Compost Collection Network helps local restaurants and grocers compost
• No Impact Meals and Events provide composting and recycling for large gatherings
In 2012, Loyola students voted to ban the sale of bottled water to address water privatization issues.

All fixtures and equipment purchased directly by the University are WaterSense certified.

Loyola has received two grants to address water issues on campus:
- Water efficiency in residence halls has provided direct retrofits and behavior engagement programs.
- Coastal Campus provided signage to highlight sustainable landscape elements on Lake Shore Campus.

Smart Irrigation across campus conserves water in ornamental and turf landscapes.

Water Consumption

<table>
<thead>
<tr>
<th>Year</th>
<th>Water Consumption (1,000 gallons)</th>
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<tbody>
<tr>
<td>2008</td>
<td>113,582</td>
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<tr>
<td>2009</td>
<td>128,549</td>
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<tr>
<td>2010</td>
<td>137,106</td>
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<tr>
<td>2011</td>
<td>105,231</td>
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<td>2012</td>
<td>109,847</td>
</tr>
<tr>
<td>2013</td>
<td>109,492</td>
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<tr>
<td>2014</td>
<td>123,001</td>
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</table>

Prepared with data from the University of California, Berkeley Climate Group.
Climate Change

- Signatory of American College and University President’s Climate Commitment
  - Annual Greenhouse Gas Inventory
    - 13% reduction since 2008
- DRAFT Climate Action Plan currently being considered
- Provide Climate Adaptation resources for campus infrastructure and natural systems
Through green buildings, upgraded systems and other retrofits save $2-$3 Million per year on utilities, reducing energy use by 33%

Demand-response allows energy use to be adjusted during ‘peak’ periods saving money and reducing pollution

Energy Star Rated – Baumhart Hall

USGBC Leadership in Energy and Environmental Design
- Silver – de Nobili, Norville AC, Damen Student Center, Klarchek Information Commons
- Gold – Niehoff Nursing, Cuneo Hall, Institute of Environmental Sustainability

Retreat and Ecology Campus
- Implementing plan for Net-Zero Campus (currently in Phase II-installing geothermal)

Information Technology
- Green Data Centers save energy through innovative ventilation and waste-heat recovery
- Computer labs have desktop power-down active

Clean Energy
- Have demonstration photovoltaics on campus in stop signs and trash bins
- Purchase renewable energy credits for electricity use (expect 50% in FY15)
- Searle Clean Energy Lab is home to Loyola’s Biodiesel and Biosoap efforts
Transportation

- Enterprise and ZipCar Car Sharing program (parking on-site and discounts available)
- ChainLinks Bike Shop and Rental
  - Student-run bike program through Loyola Limited
  - Over 10,000 bike trips on rented bikes
- Reduced membership for Divvy Bike Share program
- Sheltered Bike Racks for Many Residence Halls
- On Campus Electric Vehicle Charging Stations encourage low-carbon vehicle choices
- Pre-tax benefits for public transportation save money
- University Assisted Housing supports living close to work
- Virtual Private Network allows for telecommuting
- Wellness programs promote biking and walking
- Shower facilities at the Lake Shore Campus allow bike commuters to arrive to work refreshed

Percent Commuters
(Non Single Occupant Vehicle Trips)

- 2012: 68%
- 2013: 77%
- 2014: 93%

Students, Staff and Faculty
Over 30% of Dining Hall materials are local, fair-trade or organic source
- Engrained Café is model for local and seasonal products
- Food is grown all over the Lake Shore Campus and at the Retreat and Ecology Campus
  - Quinlan LSB Terrace
  - Mertz Terrace
  - Winthrop Demonstration Garden
  - Institute of Environmental Sustainability Greenhouse
  - Retreat and Ecology Campus Student Farm
- Loyola runs a seasonal Farmers Market for over 3,000 shoppers each year
  - Provides Food Stamps benefits for shoppers
  - Sells student grown and local farmer products
- Waste Reduction programs
  - Composting in all dining halls
  - Tray-free dining
  - Limited to-go containers
  - Reusable mug discount
  - No plastic bags or bottled water available
  - Recycling all fryer oil through Loyola Biodiesel program
  - Empty Plate Challenge tables in dining halls to spotlight food waste
Landscapes and Biodiversity

- Lake Shore Campus is award-winning stormwater landscape
  - Keeps over 18 million gallons out of combined sewers annually
- Over 55,000 square feet of green roofs over 11 buildings
  - More than any other university in the Midwest
- Recognized for making buildings bird-safe by modifying lighting, shading and occupancy settings
- Native landscaping is incorporated across campus especially along the naturalized lakefront gardens
- Sean Earl Field captures and filters stormwater
Sustainability at Loyola is driven by our Jesuit tradition and service to humanity. It is embodied in activities that meet the need of the present generation without compromising the ability of future generations to meet their own needs. We encourage you to explore sustainability at Loyola.

To learn more visit luc.edu/sustainability
Sustainability Resources

Publications

Student Projects

Reports

University Commitments
Protecting Lake Michigan

Since 2006, Loyola’s Lake Shore Campus has been returning rain water to Lake Michigan.

This keeps more than 18 Million Gallons out of the sewer system.

Prevents flooding of basements and roadways AND returns water to the Lake.

*All numbers for Lake Shore Campus only*
Since 2007, Loyola has been increasing our recycling rate:

- 2009 – 15.7%
- 2010 – 19.9%
- 2011 – 23.0%
- 2012 – 32.9%
- 2013 – 36.4%
- 2014 – 38.5%

Over 1,000 tons recycled since 2009

*All numbers for Lakeside Campuses combined*
Smarter Energy Use

Since 2001, Loyola has been redesigning its energy footprint.

From 2005 to 2012, Lakeside campuses have reduced total energy use by 18%.

This has saved over $9 Million since 2008 alone.

*All numbers for Lakeside Campuses combined.*
Loyola University Chicago’s FY2012 Carbon Footprint of 73,780 metric tons of net carbon dioxide equivalents is equal to:

- 171,583 barrels of oil
- 8,271,368 gallons of gasoline
- 317 railcars of coal
- 3,797 homes’ energy use
- the carbon sequestered by 1,891,810 tree seedlings grown for 10 years

Source: US EPA, Greenhouse Gas Equivalencies Calculator

Since 2008, Loyola’s Carbon footprint has reduced by:

- 15% in net emissions,
- 20% per student,
- 20% by area

This equates to 5.29 metric tons of carbon equivalents for every Loyola student, lower than the national average of 7.02

*All numbers for Lakeside Campuses combined*
In Spring of 2013, students voted to adopt a fund for sustainability projects.

Each year, $50,000 will be available to students from students, for sustainability.

*All numbers for Lakeside Campuses combined*
Sustainability and Climate Plan

Overarching Goals:
• Loyola strives to be the campus with the smallest environmental footprint in Illinois and in the greater Chicago Region
• Loyola strives to be a destination school for students seeking degrees in Environmental Science and Sustainability
• Loyola strives to include sustainability principles in every school and for every student
• Loyola aims to leverage its leadership in sustainability for the communities where we work, live and study
• Loyola will focus our educational programs on sustainable economic development as a driver for future career opportunities

Integrative Actions:
• 10 actions that cut across curriculum, campus and community

Targeted Goals:
• Reduction targets for 7 operating areas including; Climate, Energy, Water, Waste, Food, Transportation and Landscape.

Targeted Actions:
• 48 actions that target specific areas of the university with associated owners, timelines and indicators.

• DRAFT plan is available at:
  http://www.luc.edu/sustainability/campus/planning/
Student leadership on local action towards global issues
SELECT METRICS:

**Ecological system**
- Genetic and biological diversity
- Resilience
- Biological productivity

**Economic system**
- Increasing production of goods and services
- Satisfying basic needs or reducing poverty
- Improving equity

**Social system**
- Cultural diversity
- Social justice
- Gender equity
- Participation
LOYOLA’S SUSTAINABILITY MISSION

Sustainability at Loyola is driven by our Jesuit tradition, our service to humanity and our role as an institution of higher learning. It is embodied in an educational experience and activities that seek to meet the needs of the present generation without compromising the ability of future generations to meet their own needs. We are committed to an inclusive process of University decision-making considering social, economic and environmental impacts and exemplified in a transformative education for our students.
Sustainability Tracking, Assessment & Rating System (STARS)
About AASHE

- A North American association of **colleges & universities** working to create a sustainable future. Over 1000 campus members.
- Professional home for **campus sustainability officers**.
- **Mission**: Empower higher education to lead the sustainability transformation

**Benefits**:

- Access to Member-only Resources in the Interactive Resource Center
- Event Discounts
- STARS Registration Discount
- Products & Services Discount
- Awards Program
- Newsletters
- Advertisement Opportunities
- Publicity
- Professional Development & Networking
- Governance Opportunities
What is STARS?

✓ A voluntary, self-reporting framework
✓ A guide for advancing sustainability in all sectors of higher education.
✓ A common standard of measurement for sustainability in higher education.
✓ A tool that promotes a comprehensive understanding of sustainability that includes its social, economic and environmental dimensions.
How is STARS Organized?

STARS 2.0: 4 categories, 70 credits

STARS 2.0

- Academics (AC)
- Engagement (EN)
- Operations (OP)
- Planning & Admin. (PA)
- Innovation (IN)

STARS 2.0 Categories:

- PA 16%
- AC 29%
- OP 34%
- EN 21%
# STARS Recognition Levels

<table>
<thead>
<tr>
<th>Rating Level</th>
<th>Minimum Score Required</th>
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<tr>
<td>STARS Bronze</td>
<td>25</td>
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<tr>
<td>STARS Silver</td>
<td>45</td>
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<tr>
<td>STARS Gold</td>
<td>65</td>
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<tr>
<td>STARS Platinum</td>
<td>85</td>
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</table>

Total points earned = Total applicable points + Innovation points
Loyola’s STARS Report - Timeline

• Fall ‘12
  • Kick off Meeting – Inviting staff and faculty to learn about STARS

• Spring ‘13
  • Partnership with School of Education – Graduate class conducted data collection with Dr. Tavis Jules

• Fall ‘13
  • STARS ver2.0 released – Transitioned ver1.2 information to ver2.0 and completed submission

• Spring ‘14
  – Report was submitted for rating
  – AASHE and public review challenged 8 of our sections
  – Loyola provided data updates
  – Received final score and certificate on Feb. 18
Loyola’s STARS Report

Provisional Score – 67.02
Provisional Rating – GOLD

By Category:

Academics - 35.81 / 58.00 (59%)
Engagement - 33.97 / 41.00 (83%)
Operations - 37.31 / 70.00 (51%)
Planning & Administration - 19.66 / 32.00 (62%)
Innovation - 3 (75%)

STARS Ratings (as of 12/12/13)

- Platinum: 0
- Gold: 53
- Silver: 147
- Bronze: 66
- Reporter: 18
STARS Scores by Category

LUC STARS Scores (by Category)

Academics: 70
Engagement: 58
Operations: 41
Planning & Administration: 32

LUC STARS Scores (as a percent of available points)

Academics: 59.5%
Engagement: 82.9%
Operations: 51.3%
Planning & Administration: 62.5%
Highlights

• Sustainability Across the Curriculum
• Core Curriculum – Learning Outcomes
• Engagement programs
• Community partnerships
• GHG and Energy reductions
• New construction
• Landscape practices
• Purchasing
• Commuting choices
• Waste reduction
• Stormwater Management
• Resources for student diversity
• Shareholder Advocacy

Areas of Opportunity

• Learning objectives by Department
• Incentives for developing sustainability courses
• Incentives for interdisciplinary research
• Employee educators program
• Continuing education sust. courses
• Continued improvement on GHG/Energy
• Building operations standards
• Increase sustainable food purchasing
• Renewable energy generation
• Focus on water consumption
• Sustainability and Climate Plan
• Policies on resources for faculty diversity
• Consideration of other investment strategies
Loyola’s STARS Report
Next Steps

• Celebrate our success in reaching Gold Status through press releases and information on our website
• Post the full report (~260 pages) on the IES website
• Presentation to those that participated in the project as a data collectors or data owners, plus Institutional Research
Loyola University Chicago Sustainability Timeline

- **2001**: Energy Audit of Lakeside Campuses
- **2004**: Quinlan Life Sciences Building Opens
- **2006**: Baumhart Hall Opens
- **2007**: STEP: Biodiesel begins
- **2008**: Sustainability Committee is formed
- **2009**: Loyola Biodiesel program begins
- **2010**: Loyola purchases the Retreat and Ecology Campus
- **2011**: Natural Science Department becomes Environmental Sciences
- **2011**: Loyola bans the sale of bottled water on campus
- **2012**: Director of Sustainability is hired
- **2012**: Loyola signs onto four sustainability commitments
- **2013**: Loyola releases Sustainability & Climate Plan

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- **1987**: Student Environmental Alliance created
- **2003**: Chiller Plant Retrofit
- **2005**: Center for Urban Environmental Research and Policy is founded
- **2006**: Klarckek Information Commons Opens
- **2007**: Recycling starts at Loyola
- **2011**: Loyola Farmers Market starts
- **2012**: Loyola opens the Institute of Environment & Sustainability
- **2012**: Composting starts at Loyola
Loyola’s STARS Report – DRAFT Results

**Academics**

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<tr>
<th>Category</th>
<th>Total Score</th>
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<tr>
<td>Curriculum</td>
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<td>AC-1: Academic Courses</td>
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<td>AC-2: Learning Outcomes</td>
<td>4.31 / 8.00</td>
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<td>AC-3: Undergraduate Program</td>
<td>3.00 / 3.00</td>
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<td>AC-4: Graduate Program</td>
<td>0.00 / 3.00</td>
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<td>AC-5: Immersive Experience</td>
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<td>AC-6: Sustainability Literacy Assess.</td>
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<td>AC-7: Incentives for Developing Courses</td>
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<td>AC-8: Campus as a Living Laboratory</td>
<td>4.00 / 4.00</td>
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<td>Research</td>
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<td>AC-9: Academic Research</td>
<td>5.41 / 12.00</td>
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<td>AC-10: Support for Research</td>
<td>3.00 / 4.00</td>
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<tr>
<td>AC-11: Access to Research</td>
<td>2.00 / 2.00</td>
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Community Engagement
Loyola’s STARS Report – DRAFT Results Engagement
33.97 / 41.00

Campus Engagement 17.00 / 20.00
- EN-1: Student Educators Program 4.00 / 4.00
- EN-2: Student Orientation 2.00 / 2.00
- EN-3: Student Life 2.00 / 2.00
- EN-4: Outreach Materials and Publications 2.00 / 2.00
- EN-5: Outreach Campaign 4.00 / 4.00
- EN-6: Employee Educators Program 0.00 / 3.00
- EN-7: Employee Orientation 1.00 / 1.00
- EN-8: Staff Professional Development 2.00 / 2.00

Public Engagement 16.97 / 21.00
- EN-9: Community Partnerships 3.00 / 3.00
- EN-10: Inter-Campus Collaboration 2.00 / 2.00
- EN-11: Continuing Education 1.88 / 5.00
- EN-12: Community Service 4.09 / 5.00
- EN-13: Community Stakeholder Engagement 2.00 / 2.00
- EN-14: Participation in Public Policy 2.00 / 2.00
- EN-15: Trademark Licensing 2.00 / 2.00
- EN-16: Hospital Network N/A
# Loyola’s STARS Report – DRAFT Results

## Operations

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<thead>
<tr>
<th>Category</th>
<th>Score</th>
<th>Points Possible</th>
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<tr>
<td>Air &amp; Climate</td>
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<td>OP-1: Greenhouse Gas Emissions</td>
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<td>OP-2: Outdoor Air Quality</td>
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<td>Buildings</td>
<td>3.04</td>
<td>8.00</td>
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<td>OP-3: Building Operations and Maintenance</td>
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<td>OP-4: Building Design and Construction</td>
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<td>OP-5: Indoor Air Quality</td>
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<td>OP-6: Food and Beverage Purchasing</td>
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<td>OP-7: Low Impact Dining</td>
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<td>Energy</td>
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<td>OP-8: Building Energy Consumption</td>
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<td>OP-9: Clean and Renewable Energy</td>
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<td>Grounds</td>
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<td>Purchasing</td>
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<td>OP-12: Electronics Purchasing</td>
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<td>OP-16: Life Cycle Cost Analysis</td>
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<td>OP-17: Guidelines for Business Partners</td>
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## Loyola’s STARS Report – DRAFT Results

### Operations Con’t

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<td><strong>Transportation</strong></td>
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<td>OP-18: Campus Fleet</td>
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<td>OP-19: Student Commute Modal Split</td>
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<td>OP-20: Employee Commute Modal Split</td>
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<td>OP-21: Support for Sustainable Transportation</td>
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<td><strong>Waste</strong></td>
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<td>OP-23: Waste Diversion</td>
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<td>OP-28: Wastewater Management</td>
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Loyola’s STARS Report – DRAFT Results
Planning & Administration  19.66 / 32.00

Coordination, Planning & Governance  4.83 / 8.00
  PA-1: Sustainability Coordination  1.00 / 1.00
  PA-2: Sustainability Planning  0.83 / 4.00
  PA-3: Governance  3.00 / 3.00

Diversity & Affordability  7.92 / 10.00
  PA-4: Diversity and Equity Coord.  1.50 / 2.00
  PA-5: Assessing Diversity and Equity  0.50 / 1.00
  PA-6: Support for Underrep. Groups  2.00 / 2.00
  PA-7: Support for Future Faculty Div.  1.00 / 1.00
  PA-8: Affordability and Access  2.92 / 4.00

Health, Wellbeing & Work  3.81 / 7.00
  PA-9: Employee Compensation  1.13 / 3.00
  PA-10: Assessing Employee Satisfaction  1.00 / 1.00
  PA-11: Wellness Program  1.00 / 1.00
  PA-12: Workplace Health and Safety  0.68 / 2.00

Investment  3.10 / 7.00
  PA-13: Committee on Investor Responsib.  2.00 / 2.00
  PA-14: Sustainable Investment  1.00 / 4.00
  PA-15: Investment Disclosure  0.10 / 1.00
Why is STARS Needed?

• “You can only manage what you can measure.”

• Sustainability is a new frontier with few established metrics. A standard framework for measuring success is needed.

• STARS is a broad-based, stakeholder-designed, tested framework.
Collaboration vs. Competition

- Rating NOT Ranking
- STARS focuses on sharing sustainability information
- Created in collaboration with the higher education community
STARS Credits

1. Credit Rationale
2. Criteria
3. Applicability
4. Scoring
5. Reporting Fields
6. Measurement
7. Standards & Terms
EPA Performance Ratings by Building

- Red = Worst Performer
- Orange = Lower energy performance than average
- Yellow = Average energy performance
- Green = Better energy performance than average
- White = Top Performer

Lake Shore Campus

2001
Lake Shore Campus

EPA Performance Ratings by Building:

- Red = Worst Performer
- Orange = Lower energy performance than average
- Yellow = Average energy performance
- Light Green = Better energy performance than average
- Green = Top Performer
UNIQUE STUDY OPPORTUNITY: SISTER BUILDINGS

DUMBACH HALL

CUNEO HALL
DUMBACH POTENTIAL EEMs

BRAINSTORMING
OWNER + TEAM CHOOSE DUMBACH EEMs

ENERGY USE IMPROVEMENT = 47%
CUNEO HALL

- USES 10% THE ENERGY PER SQUARE FOOT OF BUILDING IT REPLACED
- IS IN THE TOP 1% FOR ENERGY EFFICIENT CLASSROOM BUILDINGS NATIONALLY
- IS FAVORITE CLASSROOM BUILDING OF MOST STUDENTS
Institute for Environmental Sustainability

- Largest Geothermal System in Chicago (91 wells 500 feet deep)
- 3,700 sq ft greenhouse buffers fresh air intake
- Clean Energy Lab integrated into building systems
- Rain Water Harvesting
- Cascading Natural Ventilation