Sustainabili Monthly Newslette

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Washington University in St. Loui School of Medicin

New 4515 McKinley Research Building Targeted To Achieve LEED Gold Rating

Project Features Range Of Sustainability Investments

Our newest LEED certified research facility 4515 McKinley Research Building, is about open. LEED, or Leadership in Energy & Environmental Design, is a green building certification program that recognizes best- building strategies and practices. To receiv certification, building projects satisfy prere and earn points to achieve different levels certification. 4515 McKinley is anticipated achieve a rating of Gold. Below are some examples of additional investments WUSM supported to receive this exceptional ratin

- The overall building is 36% more efficient than a conventional building with a site Energy Intensity (EUI) of 128 kBtu/square feet.
- Occupancy sensors were installed to reduce airflow in labs during unoccupied periods.
- Energy recovery was installed in lab exhaust to recover energy from the building exhaus
- Return air systems were installed in the office areas to lower energy use.
- An Energy Recovery Chiller was installed to improve the overall efficiency of the cooling
- The exterior grounds were designed to use 50% less irrigation water.
- The interior spaces were designed to use 35% less indoor water.
- 95%+ of construction waste was diverted from the landfill.
- Low VOC building materials were used.
- 30%+ of building materials were made from recycled content.
- 20%+ of building materials were locally sourced.
- A green cleaning program will be implemented upon completion.
- The building design supports active use by occupants.

WUSM NEWS

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- Staff Aim To Minimize Waste At WUSM Employee Picnic
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Fall And Winter Harvest At WUSM Farmer's Market

As summer winds down and fall approaches, WUSM farmer's market vendors are harvesting a variety of fresh, locally grown crops, including squash, pumpkins, kale, apples, sweet potatoes, onions, zucchini, carrots, broccoli, and potatoes. Michael Gehmen is one of several participating farmers and helped start the WUSM

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- Tuesday, September 22: The Case For Energy Efficiency & Clean Energy

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SCHOOL OF MEDICINE NEWS

What The Clean Power Plan Means For WUSTL

On August 3, President Obama unveiled the Clean Power Plan to cut emissions from power plants. The plan includes the first-ever Environmental Protection Agency (EPA) standards on carbon pollution from United States

market. When asked about the change in season, he emphasized a commitment to featuring fruits and vegetables that are in season. "I enjoy interacting with people," he said, "and educating them about the crops we grow." Winter weather will bring challenges, but Michael and other vendors will continue to provide produce such as lettuce grown in greenhouses and home-grown tomatoes.

The WUSM farmer's market is open to the community and takes place every Thursday, 10am to 2pm. April through early November, it is located on Hope Plaza. During inclement weather and from late November through March, it moves indoors to the McDonnell Pediatric Research atrium.

power plants. The plan requires the power industry to cut emissions by 32% below 2005 levels by 2030. The president compared the emissions reduction to removing 166 million cars from U.S. roads. Over the next few years, each state will have the chance to create its own plan.

What does this mean for WUSTL? In short, the Clean Power Plan will reduce the University's emissions by roughly 20% when fully implemented in 2030, assuming our current level of energy use. Why? Currently, the electricity we use is responsible for roughly two-thirds of the University's carbon emissions. At the end of each year, we count up the number of kilowatt-hours of electricity we consume (same units on your bill at home), and we multiply by roughly 1.8 pounds of carbon dioxide emissions per kilowatt-hour (the emission factor in our region of the country) to get the total emissions from electricity. Emission factors vary from one region of the country to the other. WUSTL happens to be located in a region that has the second highest emission factor in the U.S., according to the EPA's eGrid. The result is that our electricity use is responsible for both greater total carbon emissions and a higher percent of our carbon emissions than if we were located in most other regions of the U.S. By driving down the electrical emission factor in our region and throughout the U.S., the Clean Power Plan will reduce the University's carbon footprint and your carbon footprint at home by a significant amount.

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Staff Aim To Minimize Waste At WUSM Employee Picnic

The annual WUSM Employee Appreciation Picnic will be held in Hudlin Park on Friday, September 18, from 11am to 2pm. The picnic will feature a BBQ lunch catered by Kenrick's, frozen custard from Ted Drewes, music, and games. The picnic is sponsored by the Dean's Office and the Medical School Management Council.

To minimize waste associated with the picnic, planning staff worked with the caterers to ensure that compostable service ware (plates, cups, napkins, and cutlery) will be used. In order to direct composting efforts, three green waste stations will be set up on the picnic grounds. Volunteers will assist picnic attendees with sorting their waste into bins for composting or recycling. The green waste station approach results in up to 95% of material being composted or recycled, significantly reducing landfill waste and greenhouse gas emissions. Without these stations, less than 25% of the event waste would likely be captured.

Volunteers are still needed to help staff these stations. Shifts are only one hour, allowing staff plenty of time to enjoy the picnic. To sign up, use this Google document. You can select one or more hour-long shifts and will receive a blue sustainability shirt to wear at the event. Please email your shirt size to Jacquelyn Stearns at stearnsj@wusm.wustl.edu.

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October Is Active Transportation Month

October is Active Transportation Month at Washington University. The School of Medicine's Transportation Services team is working with the Office of Sustainability to sponsor several events for the WUSM campus.

On September 24, the Office of Sustainability will host a table in Hope Plaza and share information about active transportation options and benefits. Tabling will take place between 11am and 1pm. On Thursday, October 1, the Active Transportation Month kick-off event will occur in Hope Plaza. A ceremony will take place at noon, with featured speakers and a special Active Transportation Month cake. Big Shark Bicycle Company technicians will also be on-site and will provide free tune-ups from 11am to 3pm. Bike tune-ups will be available again in Hope Plaza on

Wednesday, October 7, from 11am to 3pm.

In addition to tune-ups, the Active Transportation Month planning team is excited to offer a new bicycle safety course. Based on availability of interested participants, the course will be held on a Tuesday or Wednesday in early October. The course will last from 5pm to 8pm. Click here to register for the course and to choose your preferred date.

We continue to encourage WUSM commuters to look for more sustainable ways to commute to campus, from biking and walking to using Metro transit. The increased physical activity is healthy and has a significantly lower environmental impact versus traditional commuting by single occupancy vehicles.

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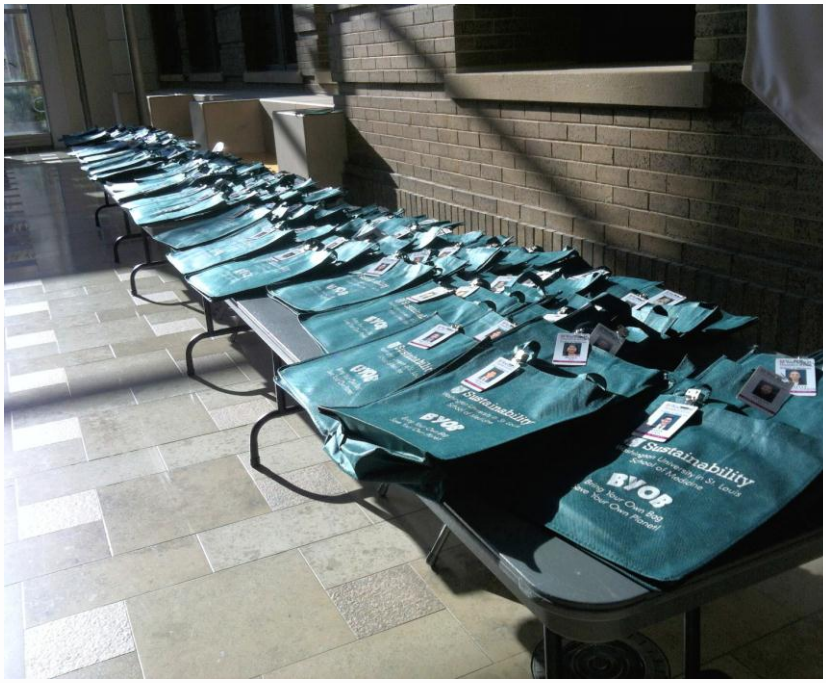
WUSM Students Lead Sustainability Initiatives



First-year medical students at Washington University's School of Medicine were greeted at orientation this year with their very own reusable shopping totes on behalf of WUSM Sustainability, a student group dedicated to

increasing awareness about sustainable behaviors by students and faculty. The reusable totes feature the label "Bring Your Own Bag, Save Your Own Planet," along with the Office of Sustainability logo. They are meant to encourage students to forgo plastic shopping bags on their grocery runs.

The reusable shopping tote is of many ways that WUSM Sustainability members have encouraged resource efficiency among the student body. Last May, the group hosted a "Spring Swap," during which students and staff donated nearly two dozen bags of old clothes for a free cycle exchange event. All leftover clothes were given to Goodwill. Additionally, all student groups have been using reusable Eco To-Go containers to serve food during lunch lectures. These were bought by WUSM Sustainability last fall and are stored at the School of Medicine's Shell Café, which washes them every day after lunch. Their use has significantly reduced the number of disposable plates consumed during meal talks.

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LOCAL AND INTERNATIONAL NEWS

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6 Ways Businesses Prove You Can Profit And Still Do Good

For all those doubters in business who believe it's not possible to combine making money with creating a better world, it's time to think again.

There are now at least nine companies globally, five of them in the United States, which make more than $1 billion in annual revenues from products that have sustainability or social good at the heart of what they do. These are not companies that rely on a committed group of green shoppers to buy their products. Instead, they represent some of the most innovative multinationals on the planet, and their recipe for success can serve as a model for other companies looking to make a difference.

Making the list are Tesla's electric vehicles and Toyota's Prius, as well as Nike's Flyknit athletic shoes and GE's Ecomagination technology, which ranges from power to transportation. Food also features strongly, including Chipotle, which has a focus on naturally raised pork, beef and chicken, Whole Foods Market, the first U.S. national supermarket to have its retail operation certified organic, and Unilever, which aims to source all its agricultural ingredients from sustainable farming.

These companies' combined revenues from sustainable products amount to more than $100 billion a year, equivalent to the 62nd largest economy in the world.

To read more and learn the six key success factors linked to these sustainable brands, click here.

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Tesla's Superchargers Expanding Worldwide

Tesla's Supercharger network of fast-charging stations that are solar powered and free to use is extremely important because of what it means for the future. According to a recent article, Superchargers will help make Tesla's next generation electric vehicle, Model 3, more desirable to a mass market. It should have at least 200 miles of driving range, and the increasing number of charging stations worldwide will allow its on-board computer to pick the most efficient route to ensure occupants do not run out of power.

Currently, Tesla operates 508 Supercharger stations, with 2,871 Superchargers. Every Model S includes Supercharging. The Superchargers provide 170 miles of range in as little as 30 minutes. Stations are strategically placed to minimize stops during long distance travel and located near restaurants, shopping centers, and WiFi hot spots worldwide.

To learn more, read here.

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UPCOMING EVENTS

Pints 'n' Plants: Invasive Species

Wednesday, September 16, 6:30-7:30p
Urban Chestnut Brewing Company (Grove)
4465 Manchester Avenue, St. Louis 63110

Invasive species pose a serious threat to the global environment, an epidemic exemplified by the rampant spread of bush honeysuckle and other invasive species in the St. Louis region. Join Dr. Quinn Long of the Missouri Botanical Garden to discuss the origins, causes, and consequences of invasion, and what you can do to help. Quinn Long is a botanist and ecologist with the Center for Conservation and Sustainable Development at MBG, where he works with conservation and restoration of rare plant species and communities in the southeastern U.S. His research interests include fire ecology, invasive species control, and restoration of grassland, Savannah,

and woodland communities.

This event is open to the general public with a $5 suggested donation. To learn more, click here.

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The Case For Energy Efficiency & Clean Energy

Tuesday, September 22, 11:30-1p
Missouri Botanical Garden's Commerce Bank Center for Science Education
4651 Shaw Blvd., St. Louis 63110

Find out how increasing energy efficiency and clean energy use are good business and good for Missouri's economy. This discussion with energy efficiency, environmental, and energy policy experts will discuss the benefits of investing in high performing buildings. The event will also feature a presentation of the "Missouri Jobs Report," a recently published study from the Missouri Energy Initiative and E2 that examines the impact the energy efficiency and clean energy sector has on Missouri's economy. Speakers include:

- Ashok Gupta, Natural Resources Defense Council, Director of Programs

- Warren Wood, Ameren Missouri, Vice President of External Affairs and Communications
- Doug Sitton, Sitton Energy Solutions, President
- Gail Parson, E2-Environmental Entrepreneurs, Midwest Advocate
- Josh Campbell, Missouri Energy Initiative, Executive Director

Lunch is provided. The event is free, but registration is required. To register, click here. If you have questions, contact Tony Wyche at tony@e2.org.

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The Office of Sustainability newsletter is intended as a clearinghouse of sustainability-related news and events at the university, in the region and around the world. Listings in the newsletter do not necessarily represent Office of Sustainability endorsements or views. To submit an event or news item to include in the newsletter, email sustainability@wustl.edu.

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