The Road to Carbon Neutrality by 2030

A review of Smith College's campus improvements and academic initiatives

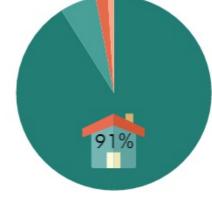
Smith College has made numerous commitments to address sustainability and climate change, including one to become a carbon neutral campus by 2030. The Sustainability and Climate Action Management Plan (SCAMP), published in 2010, outlines the college's path to achieving this goal. While the plan includes reducing the environmental impact of our campus and its operations, it also focuses on academics. Smith understands that our greatest resource is our students. We want to educate women to be leaders in improving sustainability and battling climate change, both here on campus and in the wider world. This 2016 SCAMP update is a report of current efforts, both operational and academic, and

Where We Are Now

GREENHOUSE GAS **EMISSIONS**

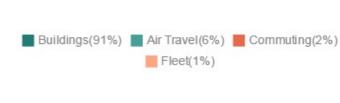
greenhouse gas emissions come from the provision of electricity and the heating and cooling of 100+ buildings. The remaining portion comes from air travel, faculty and staff commuting, and our fleet.

91% of Smith's



levels (27,972 metric tonnes in 2015). Even with the decrease, our current trajectory will not get us to carbon neutral by 2030 without significant campus changes.

Our emissions have dropped 20% since 1990





ENERGY & BUILDINGS



plant, purchase 28% from a utility and produce 2% from on-site solar panels. Cogeneration plant: Our plant, which is run by a natural gas fueled turbine, efficiently produces both steam heat and electricity

for campus buildings.

electricity from an on-site

arrays on campus--Ford Hall, Campus Center, Indoor Track & Tennis facility, McConnell Hall and MacLeish Field Station.

Solar arrays: We have five

Sources of Electricity





Bechtel Environmental Classroom, located at MacLeish Field Station. LEED certified: Ford Hall, built in 2010, is a LEED Gold science and engineering

certified Living Building, the

building; two houses, Cutter and Ziskind, and the Friedman Complex apartments, are waiting for LEED certification.



1,914

1,200

MATERIALS & WASTE MANAGEMENT

70% from our plant

Total tons of waste Smith diverted from a landfill in 2015. Here's how it breaks down:

Tons of compost (bedding and Tons of items reused, such as

Tons of construction and *225* demolition debris were recycled

manure) from the horse stables

Tons of recycling, such as *773* bottles, cans, paper and plastic

215 Tons of compost (pre- and postconsumer food scraps) from dining halls

Day Foundation.

Tons of clothing donated following move-out

furniture and mattresses

Tons of food delivered to local organizations by the student-run

Food Recovery Network







In 2015, 37% of food and beverages served in dining halls were local, community based or 3rd-party verified (such as USDA Certified Organic), up from 22% in 2014.

science and aesthetics of plants. In 2016, Smith was named a Tree Campus USA by the Árbor



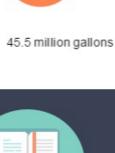


Power Plant(13.84%)

Campus(86.16%)

2009 Water

Consumption



water than in 2009. Why the increase? Energy efficiency improvements were made to the power plant, which heats

and cools the campus. Those improvements use more

In 2014, Smith used more

water. When you exclude the plant, the consumption of potable and non-potable water on campus has decreased by more than 2 million gallons in the same time period. **ACADEMIC & CO-CURRICULAR**



Power Plant(26.74%)

51.5 million gallons



became a concentration.

a major.



The Center for the Environment, Ecological Design & Sustainability (CEEDS) moved to its location in Wright Hall. The center focuses on integrating environmental learning into the Smith curriculum. In addition, Sustainable Food

added to the curriculum. 2015 104 courses at Smith included sustainability.

A Climate Change Concentration was

Bike Kitchen Rents bicycles to the Smith community, encourages bike riding as a sustainable

Works to bridge the gap between environ-

mental activism and social rights issue.

form of transportation, and offers bike maintenance classes.

Smith Chapter of Engineers for a Sustainable World

surrounding community and abroad. Divest Smith College A network of students and community

members who support divestment from the

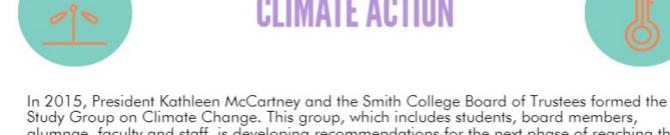
Works on projects on campus, the

fossil fuel industry.

What We're Doing Next

While Smith has made numerous improvements since SCAMP was released in 2010,

there are still a variety of challenges to address as we strive to reach the goal of carbon neutrality by 2030 and integrate sustainability into the student experience.



CLIMATE ACTION



alumnae, faculty and staff, is developing recommendations for the next phase of reaching the carbon neutral goal. A report is expected at the end of 2016 and will likely include adaptation efforts on campus, academic and campus culture programs, and investment opportunities.

Experiential and applied learning are key components in the college's new strategic plan. As projects are developed to mitigate climate change impacts on campus, students will have opportunities to be involved at all levels-



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