



St. Cloud State University **Sustainability**



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www.presidentclimatecommitment.org

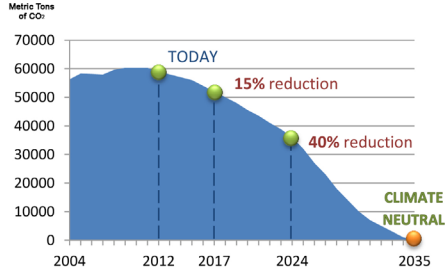
Carbon Neutral by 2035

St. Cloud State University has signed the American College & University Presidents' Climate Commitment (ACUPCC).

What Does This Mean?

- SCSU has committed to becoming carbon neutral by 2035, with a short-term target of a 15% reduction by 2017 and a mid-term target of 40% reduction by 2024.
- By signing the ACUPCC, SCSU has also agreed to accelerate research and educational efforts regarding sustainability.
- SCSU has created a Greenhouse Gas Emissions Inventory, which will be updated every 2 years.
- SCSU has developed a Climate Action Plan to determine how it will reach its goal of becoming climate neutral.

Climate Action Plan

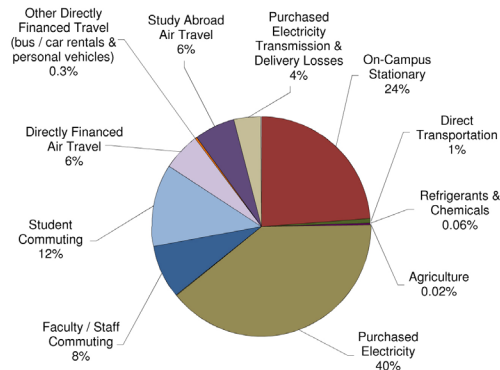


Did You Know?

St. Cloud State University has launched the "Husky Paw" campaign to bring attention to sustainability efforts and opportunities on campus. Keep an eye out for the green husky paw logo:



Total Emissions by Sector, 2009



Investing in "Green" Buildings

A new \$44.8 million science and engineering building will open for classes and research Fall 2013. The Integrated Science and Engineering Laboratory Facility, or ISELF, will provide state-of-the-art facilities to support sustainable research and partnerships with companies that are global leaders in bio-agriculture, renewable energy, medical devices, pharma/biologics and animal science.

- 89.5% of construction waste has been diverted from the landfill.
- Plans are under way to incorporate a wind turbine and photovoltaic panels.
- An electronic dashboard will provide live measurement of the building's performance.



Behind the Scenes

- All new buildings will be designed to meet or exceed State of Minnesota B3 and LEED® Silver sustainability guidelines.
- A central energy management system helps track energy usage and schedule heating and cooling.
- Switching from #6 fuel oil to natural gas in boilers resulted in a reduction of 26 kg of eCO₂ /MMBtu.
- Planning is under way to install a new high efficiency central chiller and cooling tower.
- The steam and chilled water distribution system is being studied for increased efficiency.
- Lighting in the National Hockey Center is being replaced with new high efficiency lighting.

Renewable Energy

- SCSU gets 5% of its purchased electricity from wind sources.

Landscaping

- Native plants are used to limit irrigation and to reduce the need for chemicals.

Controlling Storm Water

- Bio-swales and rain gardens will be used for storm water retention and filtering.
- Underground storage tanks will be used to store storm water to be used for irrigation.

Did You Know?

In the United States, buildings account for

36%

of total energy use.

Source: U.S. Green Building Council

SCSU works to

REDUCE

energy and chemical usage by purchasing Green Seal cleaning products and ENERGY STAR® equipment.

The William H. Kurtz Sustainability Service Award honors one undergraduate student annually.

Over two dozen environmental service-learning projects have been enacted with area community partners since 2005.

At the end of the semester, residential students are able to donate items for

REUSE

by local non-profit organizations.

Annual clean-ups tied to academic/environmental courses:

Annual "Trick-or-Trash" Clean-up

Annual Sauk River Clean-up

Adopt-a-Block Program

Annual Mississippi River Clean-up

There are

5

STUDENT ORGANIZATIONS

that are focused on sustainability and the environment:

Animent

Biology Graduate Student Association

Environmental & Technological Studies Club

SCSU Ecology Club/Wildlife Association

Wind Energy Association

Sustainability content is included in over

90

COURSES

Many class projects and service-learning projects involve sustainability.

SCSU volunteers remove 1,200 pounds of garbage from the banks of the Mississippi River each year.

SCSU is actively involved in sustainability RESEARCH:

- Researching organic semiconducting materials for use in devices like organic solar cells
- Exploring bio-remediation techniques using algae to break down waste and uses for the resultant by-products
- Determining the effect of land management techniques on the reintroduction of species
- Studying water quality throughout the nation and its effects on aquatic life
- Studying transit systems within urban community development
- Evaluating how damming affects the river environment and the effects of dam failures
- Modeling environmental and economic systems and investigating renewable energy options
- Researching chemical-free and contact-free cleaning methods

Each year, we

RECYCLE

to keep 8,000 tons of waste from the landfill. Plastic, metal, glass, paper and cardboard can be placed in bins throughout campus for recycling.

Did You Know?

In the United States,
food waste accounts for

14%

of the total trash generated

Source: <http://www.epa.gov/osw/conserve/materials/organics/food/fd-basic.htm>

Serving Up Sustainability

SCSU's food service vendor, Sodexo, is committed to sustainable practices.

- 10% of all food served is obtained from within 150 miles of campus.
- Non-disposable dishes are used in dining facilities.
- Complete protein vegan and vegetarian options are available at every meal.

- Food waste is sold to a local farmer to be used as feed for pigs.



Learn More!

www.scsudining.com/sustainability/local.html

Community Garden

- The St. Cloud State University Community Garden is located on 5th Avenue South near 6th Street. Here, people from SCSU and the larger community can participate in planting, growing, and harvesting their own food.

Farmer's Market

- An on-campus farmer's market makes locally grown foods available for purchase.

Trayless Dining Saves:

- 500 gallons of water per day
- 10% less soap / cleaning chemicals
- 750 fewer pounds of food per day



More than 33,000 plastic bottles have been avoided through the use of a water bottle refill station in Atwood Memorial Center as of April, 2012.

Plug-In for Power

- SCSU is currently the only higher education member of the Drive Electric Minnesota initiative. This organization is a partnership of state and local government, utilities, private business and nonprofit entities working together to bring electric vehicles (EVs) and plug-in charging infrastructure to Minnesota.
- So far, SCSU has replaced 15 vehicles in their fleet with 3 GEM electric vehicles:
 - 100% electric
 - Range: 25 miles at 20 mph
 - Cost: \$0.02 per mile



Husky Fried Ride

- Launched in 2008, the Metro Bus Husky Fried Ride was the first public transit bus in the country to be powered by recycled vegetable oil.
- Powered by a mixture of 70% recycled vegetable oil and 30% diesel fuel.
- Each week, more than 150 gallons of vegetable oil from deep fryers at St. Cloud State University is reused as fuel.
- Awarded a 2008-2009 Innovative Partnering and Collaboration Award.



Carpooling

- An online rideshare board is available.



Learn More!

www.stcloudstate.edu/atwood/rideshare.asp

Bicycling

- Bicycles can be leased per semester and academic year.
- Residents of Lawrence Hall may borrow bikes through the Husky Re-Cycle Initiative.



Learn More!

www.stcloudstate.edu/campusrec/outdoorendeavors/bikeshop.asp

Public Transportation

- Metro Bus passes are free for students and employees.



Learn More!

www.stcloudmtc.com/college_connect_2.php

“Sustainability is a concept that embraces more than our physical environment. In its broadest sense it also includes social justice practices that reduce, we would hope eliminate, the waste of human potential.”

Earl H. Potter III, President, St. Cloud State University
2011 Faculty & Staff Spring Convocation



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