

Carbon Neutrality



Carbon Neutrality

In 2007, Macalester College President Brian Rosenberg signed the American College and University Presidents' Climate Commitment (APUPCC) agreeing to set a carbon neutral and educate about climate issues. In 2009, the college developed its first Sustainability Plan, which incorporated the carbon neutral by 2025 goal and the required climate action plan. Three benchmark goals have been outlined:

2015: 17.5 percent reduction from 2006-2007 levels (met goal)

2020: 35 percent reduction from 2006-2007 levels (met goal)

2025: 52 percent reduction from 2006-2007 levels - preliminary analysis shows 48 percent will need to be offset through off-site renewable energy purchases

Awards

City of St Paul

2008 - Excellence in Energy Efficiency

Staples Youth Social Entrepreneur Competition

2009 - Minnesota Campus Energy Challenge Achievement Award Winner

Xcel Energy

2009 - Efficiency Partner Award

TRANE Energy Efficiency Award

2010 - Energy Efficient Leader in Education Award Winner

US Department of Energy

2019 - Smart Energy Analytics Award for Innovation Using EIS for a Portfolio

By the Numbers

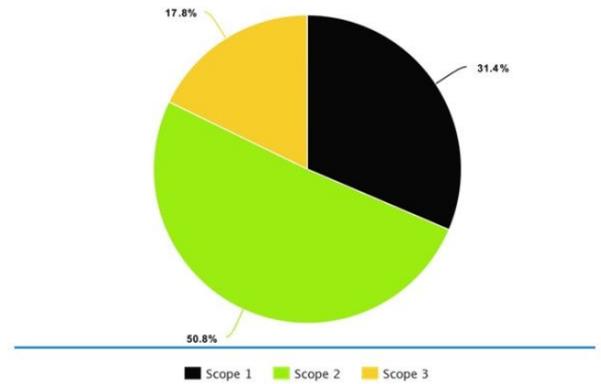
Macalester Emissions Scopes:

Scope 1 - Direct emissions from sources owned/controlled by the college

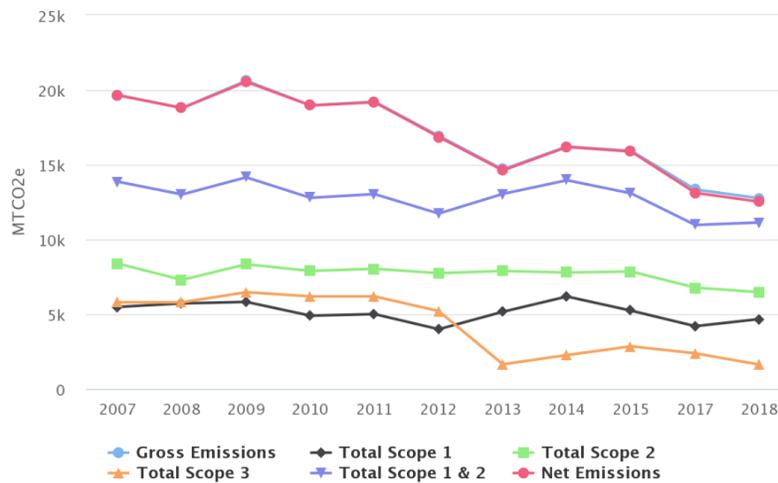
Scope 2 - Indirect emissions from electricity purchased by the college

Scope 3 - Indirect emissions that we have influence over (ie. transportation, air travel, etc.)

Current GHG Breakdown



EMISSIONS MTCO2E



Programs

 **Energy Efficiency** - Macalester's Facilities Services Department has been focused on energy efficiency since the 1960s and '70s. Energy efficiency projects include a new **efficient boiler**, **chiller plant upgrades**, **LED lighting**, and **water** efficiency.

 **Renewable Energy** - A 2003 senior class gift, in addition to an Xcel Energy fund, helped install a 10kW **wind turbine**, the first in St. Paul. Second, Macalester installed **solar PV** on two campus buildings and solar thermal on the student EcoHouse. Finally, the college signed a power purchase agreement to buy **100%** of the college's electricity through a **community solar garden**. Due to vendor changes, the final percentage of solar electricity will be lower, but still substantial.

 **Offsets** - During orientation in 2019 new students **planted trees** to offset carbon and to educate students about the importance of urban trees. This program is intended to further the discussion of potential future offsets. The Sustainability Office collaborates with other campus departments to offset study away emissions and **educate students** about travel GHG emissions.

 **Education** - Students have attended the United Nations Framework Convention on Climate Change since 2014, including **2015's Conference of the Parties'** where the **Paris Agreement** was signed.