



2015 SUSTAINABILITY ANNUAL REPORT

The University of Nebraska Medical Center and Nebraska Medicine (UNMC/NM) have built a strong foundation in sustainability over the past two decades. Part of this effort included the creation of the Sustainability Master Plan (SMP), which was published in 2014. The SMP includes key sustainability performance indicators and goals for each one. Below is an update on the goal progress from the SMP as of December 31, 2015.



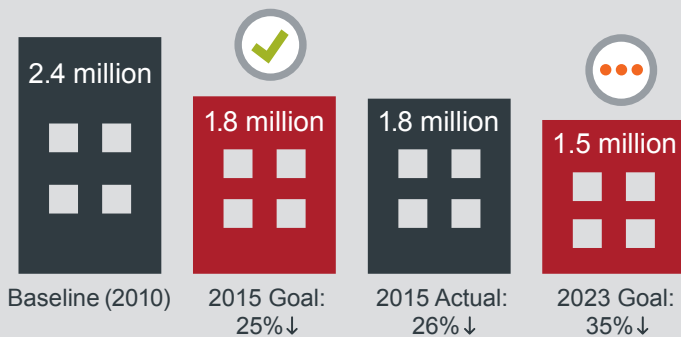
Goal Met



Goal In Progress

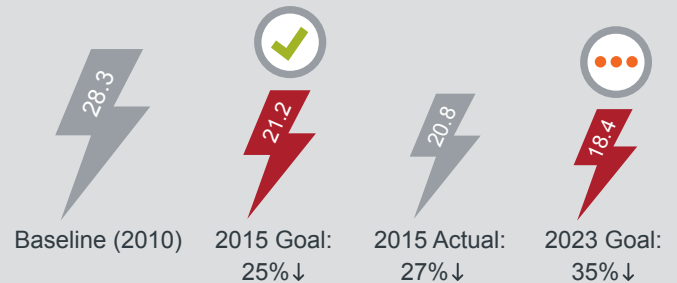
ENERGY

GOAL: Reduce total annual building energy consumption (source MMBtu) by 25% by Dec. 2015 and an additional 10% by the end of 2023



Health benefits from the reduced burning of coal include reduced chronic bronchitis, asthma attacks, hospital visits, and lost work days in the community

GOAL: Reduce annual peak energy demand (MW) by 25% by December 2015 and an additional 10% by the end of 2023

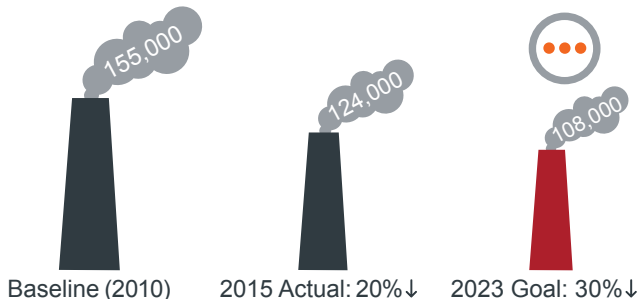


2015 weather-normalized energy use per square foot was 23% below the 2010 baseline

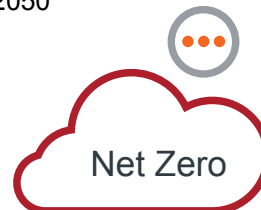
The cumulative energy use reduction is equivalent to the energy use of 9,000 homes, or the town of Columbus, Neb.

EMISSIONS

GOAL: Reduce greenhouse gas emissions (metric tons CO₂e) by 30% by the end of 2023



LONG-TERM GOAL:
Achieve climate neutrality (zero net emissions) by 2050



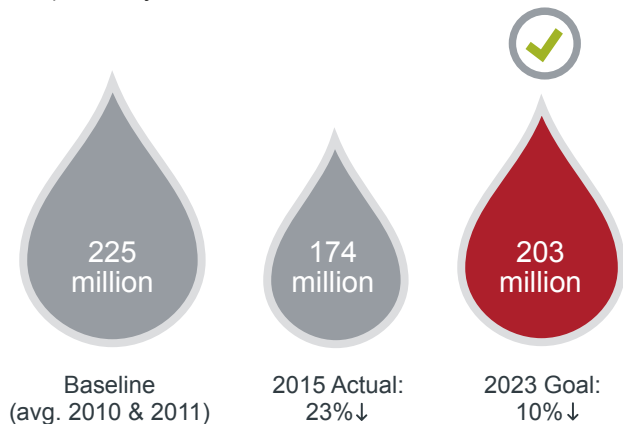
The cumulative GHG reductions equal the emissions produced by 109 million lbs. of coal burned, or 548 railcars of coal.

ENERGY/EMISSIONS STRATEGIES

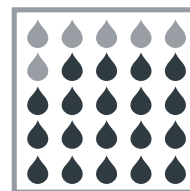
- ▶ Installed a flue gas economizer to gather waste heat to make hot water
- ▶ Upgraded energy control systems to efficiently maintain building temperatures
- ▶ Energy curtailment campaign to reduce peak electricity demand and solar gain
- ▶ Strategic building energy system scheduling

WATER

GOAL: Reduce total annual water consumption (gallons) 10% by 2023



Water usage per square foot



- Baseline (avg. 2010 & 2011): 50 gallons
- 2015 Actual: 38 gallons, 24% ↓

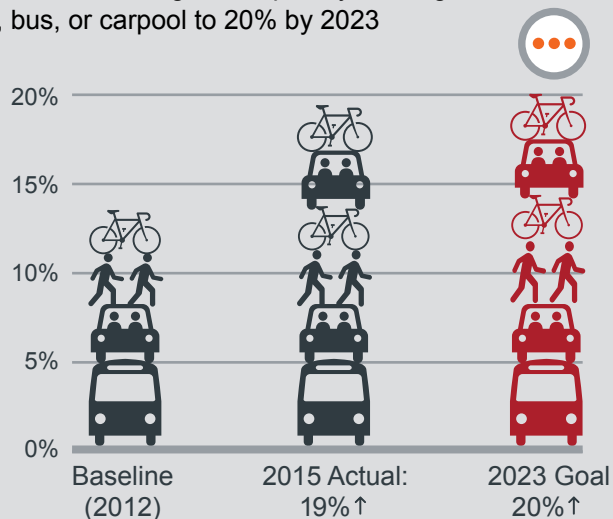
The cumulative water reduction is equivalent to 770 Olympic-sized swimming pools, or 508 million gallons

WATER STRATEGIES

- ▶ Proactively identified and fixed leaks
- ▶ Improved the water cooling of an MRI machine to a closed-loop system
- ▶ Improved water use tracking to identify reduction opportunities
- ▶ Increased energy efficiencies resulting in a reduction of water used in cooling systems

TRANSPORTATION & PARKING

GOAL: Increase the percentage of employees and students commuting to campus by walking, bike, bus, or carpool to 20% by 2023



Number of parking spaces available on campus



Baseline (2012)



2015 Actual

Reduced the number of single-occupancy vehicle miles driven each week by 8,100 miles; equivalent to a trip around the continental U.S.

TRANSPORTATION STRATEGIES

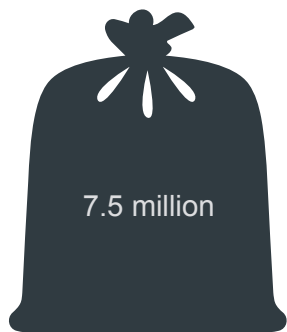
- ▶ Introduced **TravelSmart**, UNMC/NM's comprehensive program that supports multiple transportation choices for staff/students, which includes providing free bus passes and carpooling support
- ▶ Worked with the Transportation and Parking Committee to change policy to support active transportation

TRAVELSMART

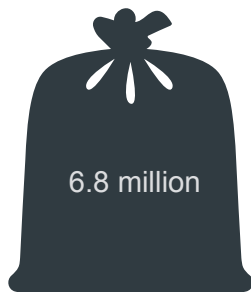
MATERIALS

GOAL: Reduce the total weight (pounds) of outgoing material by 25% by the end of 2023

Waste generation intensity per square foot



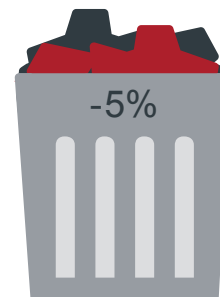
Baseline
(avg. FY2011 & FY2012)



FY2015 Actual: 9% ↓



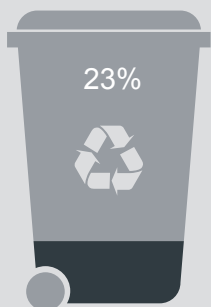
2023 Goal: 25% ↓



● Baseline (avg. FY2011 & FY2012): 1.27

● 2015: 1.21, 5% ↓

GOAL: Increase the percent of material diverted from the landfill to 35% by the end of 2023



Baseline
(avg. FY2011 & FY2012)



FY 2015 Actual:
4% ↓



2023 Goal:
35% ↑



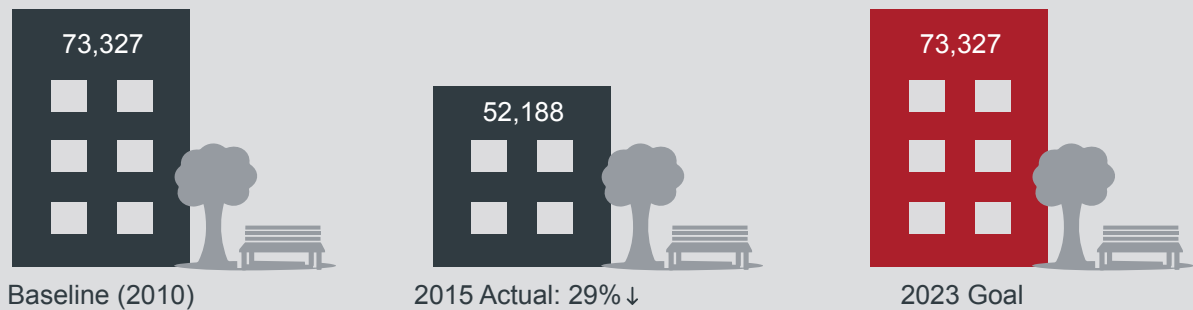
Cumulatively avoided the use of 790,000 pounds of paper, equivalent to the weight of 130 elephants

MATERIALS STRATEGIES

- ▶ Set goal to eliminate Styrofoam (polystyrene) on campus by 2020
- ▶ Installed 675 recycling bins with consistent signage throughout campus in 2012
- ▶ Reduced paper use by increasing double-sided printing and digitizing financial ledgers and payroll documents
- ▶ Instituted the Supply Exchange, which allows staff members to exchange supplies that might otherwise be thrown away
- ▶ Implemented a campus-wide single-use alkaline battery recycling program, recycling over 7,000 pounds of batteries

CAMPUS PLANNING

GOAL: Maintain the baseline campus density of 73,327 square feet per acre

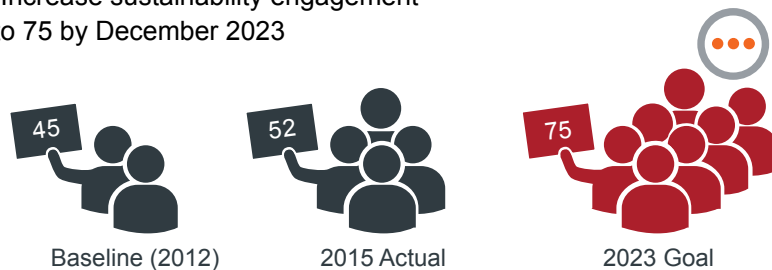


CAMPUS PLANNING STRATEGIES

- ▶ Acquired land for future development
- ▶ Maintained quality green space for recreation, healing, and improved water quality
- ▶ Additional green space is designed into the Fred and Pamela Buffett Cancer Center

CAMPUS ENGAGEMENT

GOAL: Increase sustainability engagement score to 75 by December 2023



2,200 LiveGreen listserv members

LiveGreen

ENGAGEMENT STRATEGIES

- ▶ Active LiveGreen team since 2011
- ▶ Annual Earth Week celebration for the past five years
- ▶ Ongoing educational articles and sustainability updates
- ▶ 3,500 staff sustainability pledges
- ▶ Publicly available combined Nebraska Medicine and UNMC LiveGreen website

FOOD SERVICE

GOAL: Divert at least 90% of kitchen and café waste from reaching a landfill by the end of 2023



FOOD SERVICE STRATEGY

- ▶ Eliminate Styrofoam (polystyrene) in food service areas by 2020

For more information about UNMC/NM sustainability work, please visit the [LiveGreen website](#).