

# Wellesley College Master Energy Plan

April 30, 2021



# About E2040

A working group of the Board of Trustees comprised of trustees, faculty, staff, and students. Formed in January 2019, E2040 is responsible for developing a pathway to become a carbon-neutral campus.

## Trustees

- **Laura Daignault Gates '72**, chair of E2040
- **Debora de Hoyos '75 P'07**, chair of the Board of Trustees\*
- **Amanda Hernandez '18**, trustee
- **Patrick Lee**, trustee
- **Christopher T. Pasko**, trustee
- **Doug Hollett**, trustee

## Students

- **Anna Beyette '21**
- **Claire Hayhow '21**
- **Shreya Parjan '21**

*\*ex officio*

## Staff

- **Rose Carpenter**, deputy chief investment officer
- **Dave Chakraborty**, assistant vice president, facilities management and planning
- **Paula A. Johnson**, president\*
- **Kathryn Mackintosh '03**, WCAA executive director\*
- **Piper Orton**, vice president, finance and administration, and treasurer

## Faculty

- **Dan Brabander**, chair of the Advisory Committee on Environmental Sustainability, Frost Professor in Environmental Science and professor of geosciences
- **Robin McKnight**, professor of economics
- **Jay Turner**, professor of environmental studies



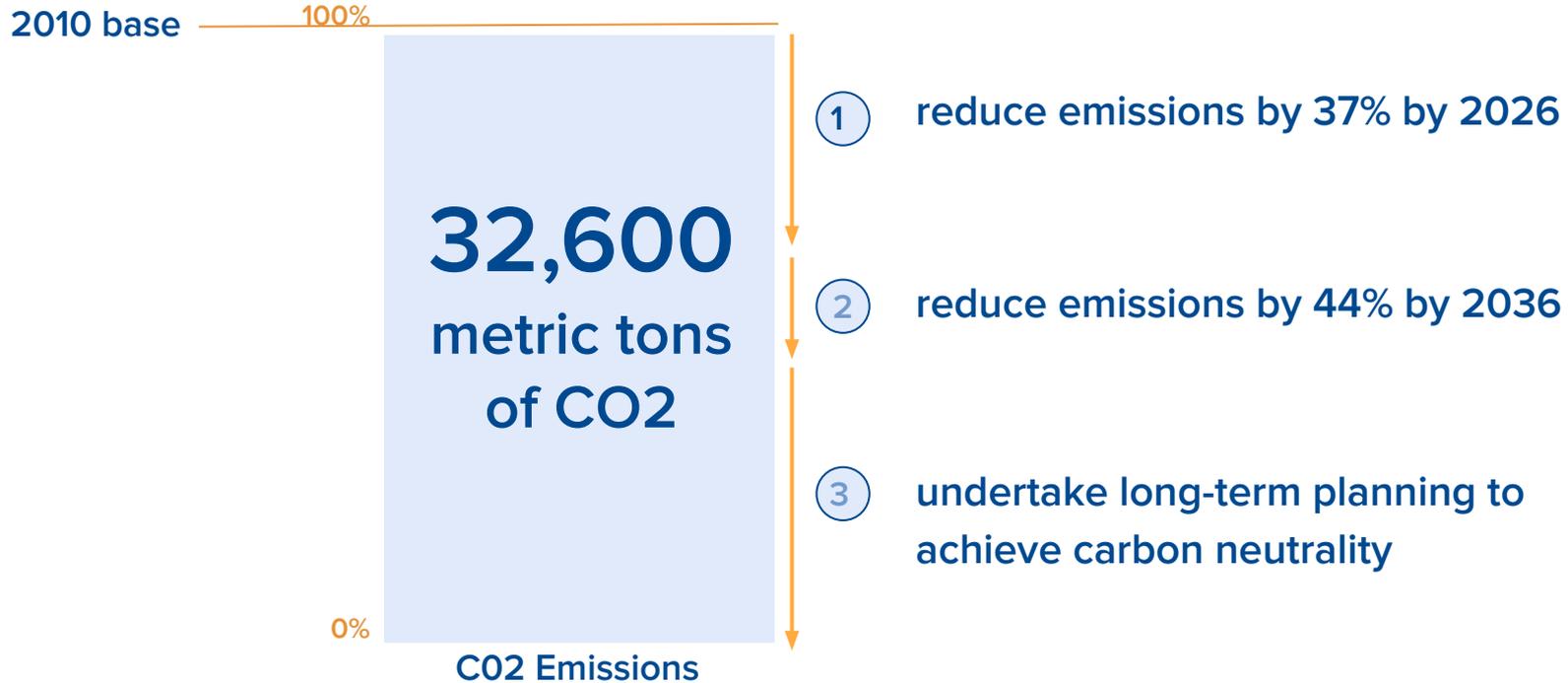
# E2040's goals

Developing a plan that aspires to reach carbon neutrality by the year 2040.

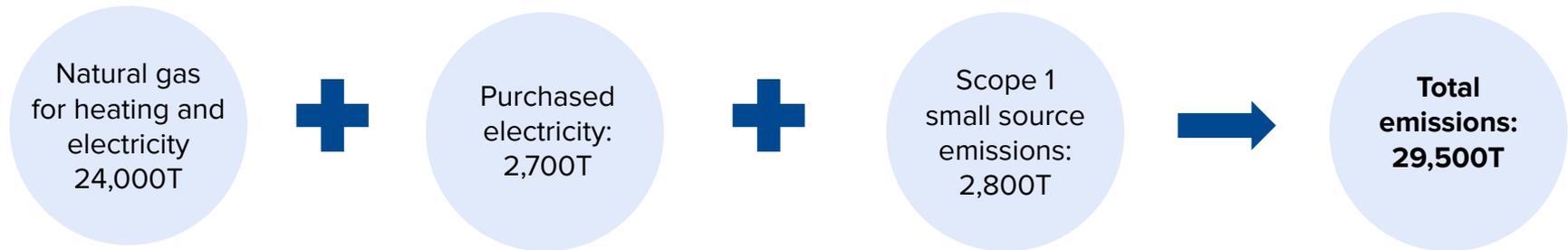
1. A plan with specific targets that charts an achievable path to carbon neutrality
2. A plan that addresses all types of energy usage
3. A process that builds understanding, commitment, and enthusiasm for the plan across the community
4. A process that spurs environmental advocacy in all policy arenas

# Taking a step back

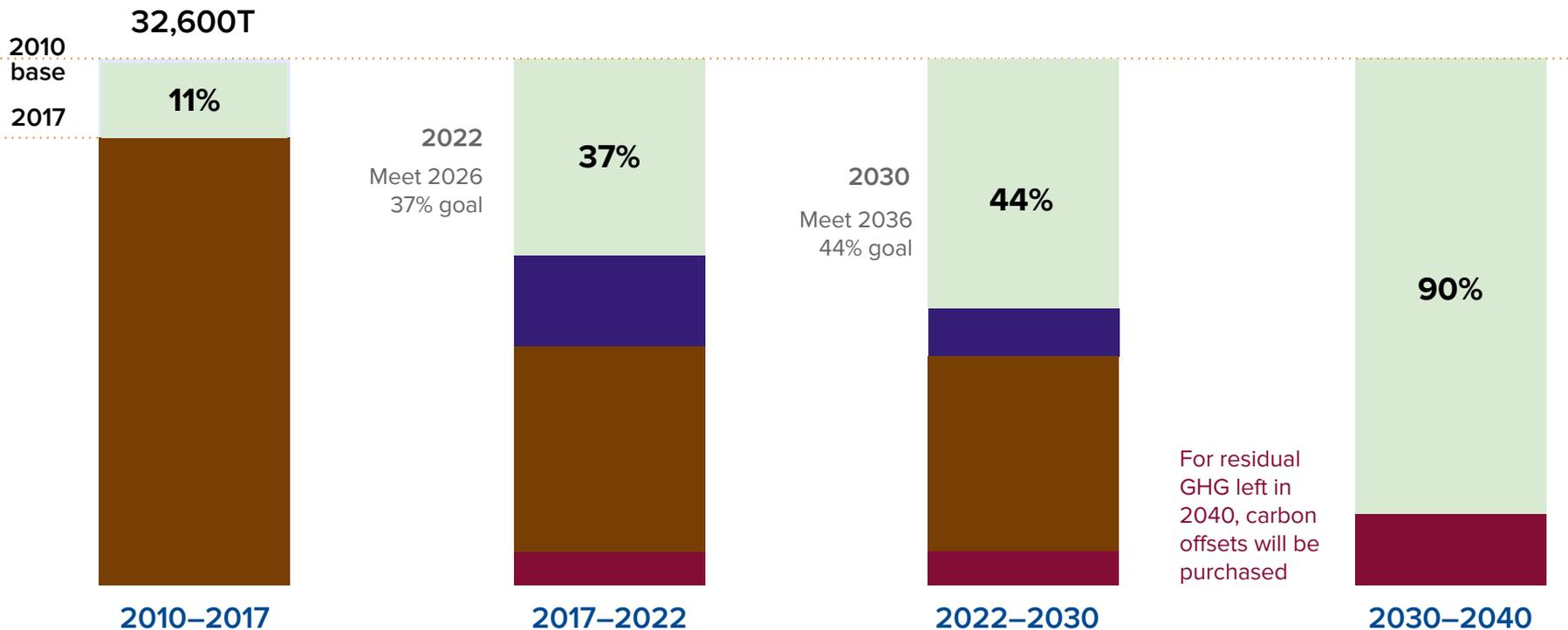
In 2016, Wellesley adopted three primary goals to reduce our carbon footprint.



# Sources of greenhouse gas emissions before the start of our energy management program



# Wellesley's greenhouse gas reduction forecast



Purple rep. GHG from electricity use

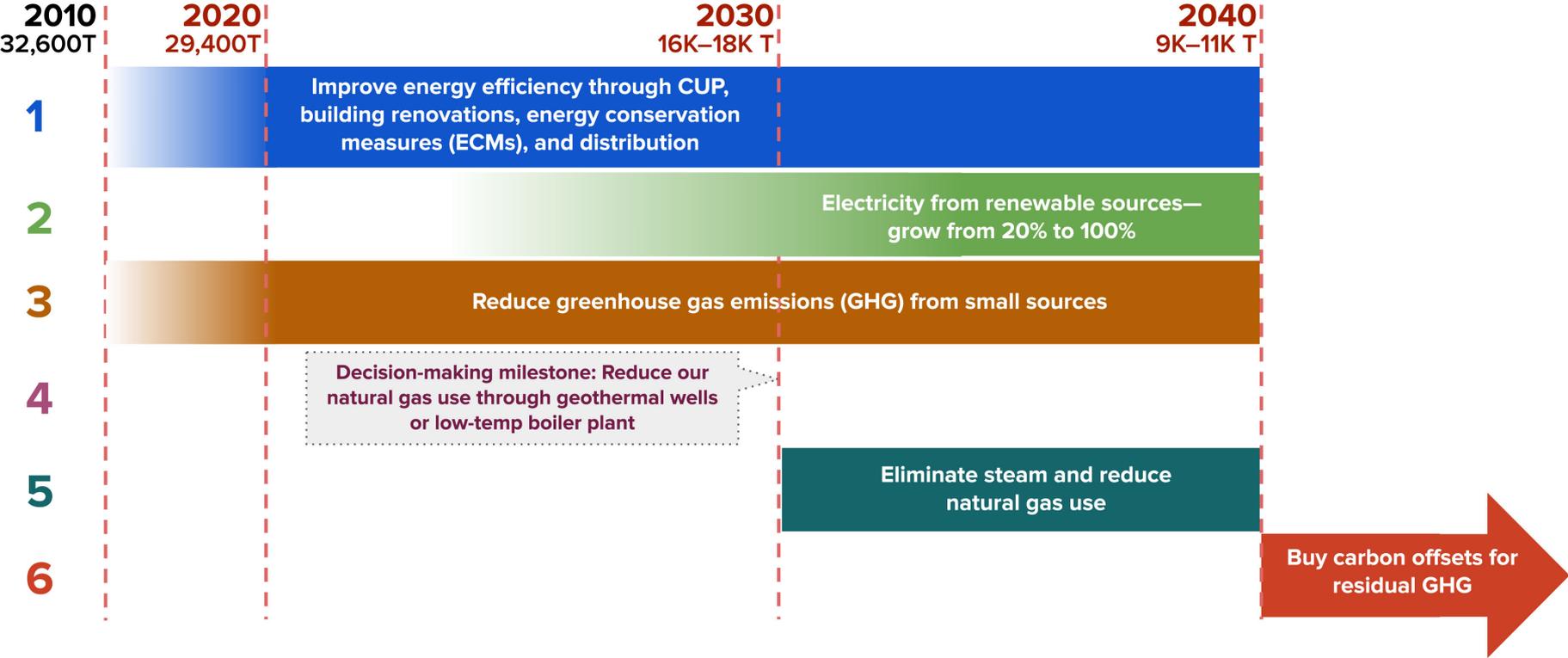
Dark brown rep. GHG from natural gas used for the heating plant

Magenta rep. GHG from other sources



# E2040's proposed roadmap: a technical solution

There are six main steps Wellesley will take over time to achieve carbon neutrality.



# Investments needed to achieve net carbon-neutral campus

## Investments in progress

**\$26 Million**

invested in new energy efficient chiller plant, peak shaver plant, boiler retrofits

**\$6 Million**

in campus-wide energy conservation projects

## Investments needed for the future

**\$500 Million**

needed for planned renovations

**+\$200 Million**

needed for conversion of the plant from fossil fuels