

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



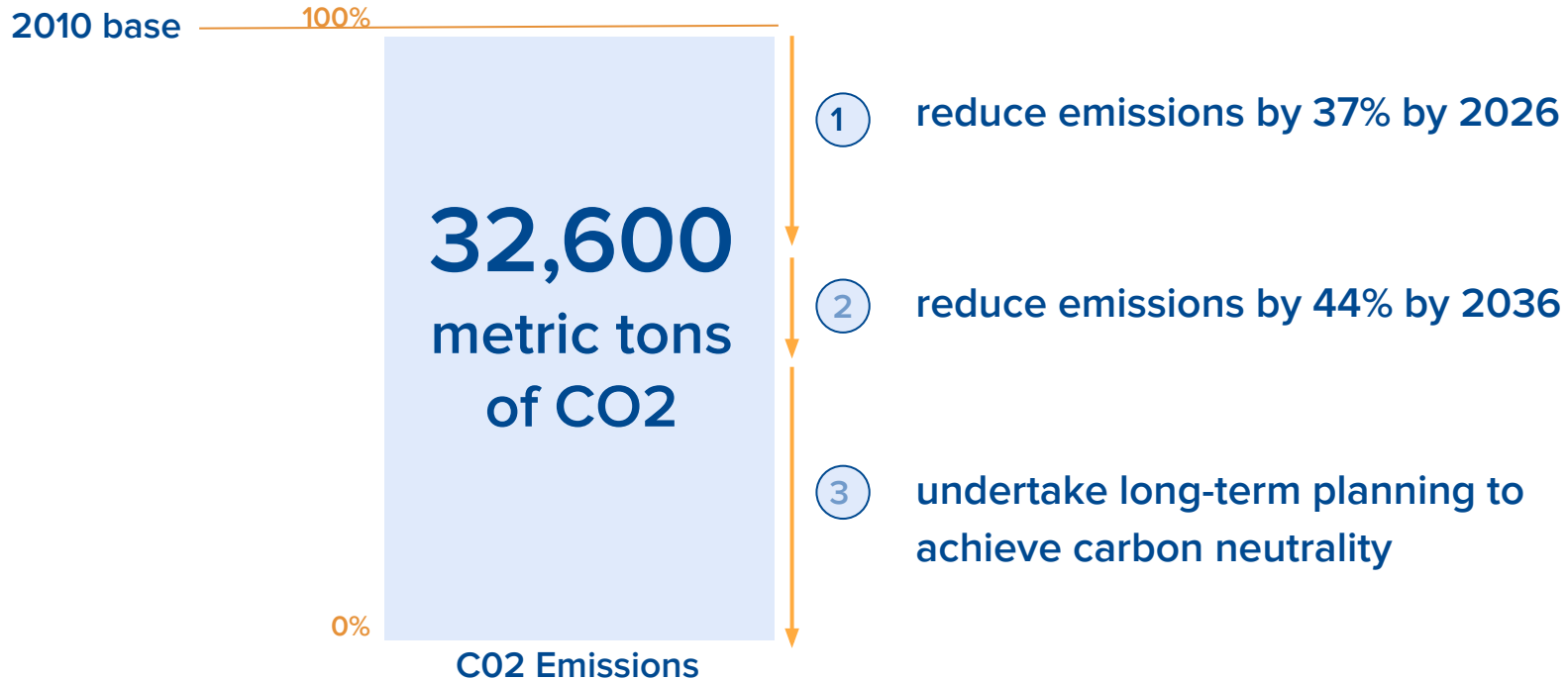
E2040's goals

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

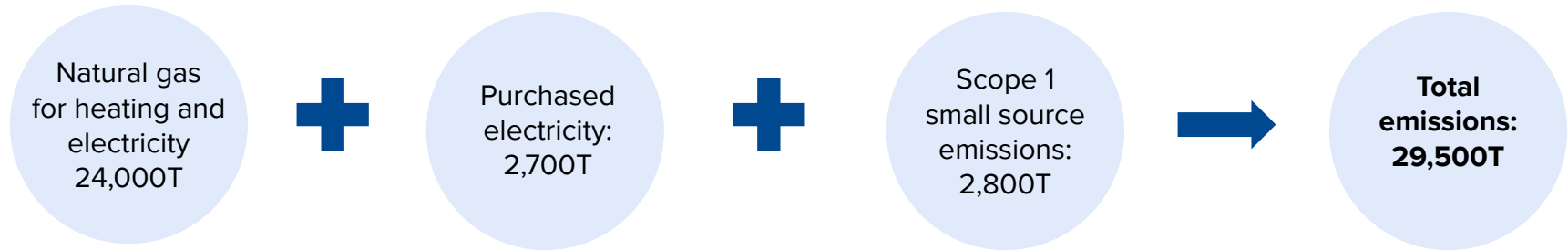
1. A plan with specific targets that charts an achievable path to carbon neutrality
2. A plan that addresses all types of energy usage
3. A process that builds understanding, commitment, and enthusiasm for the plan across the community
4. A process that spurs environmental advocacy in all policy arenas

Taking a step back

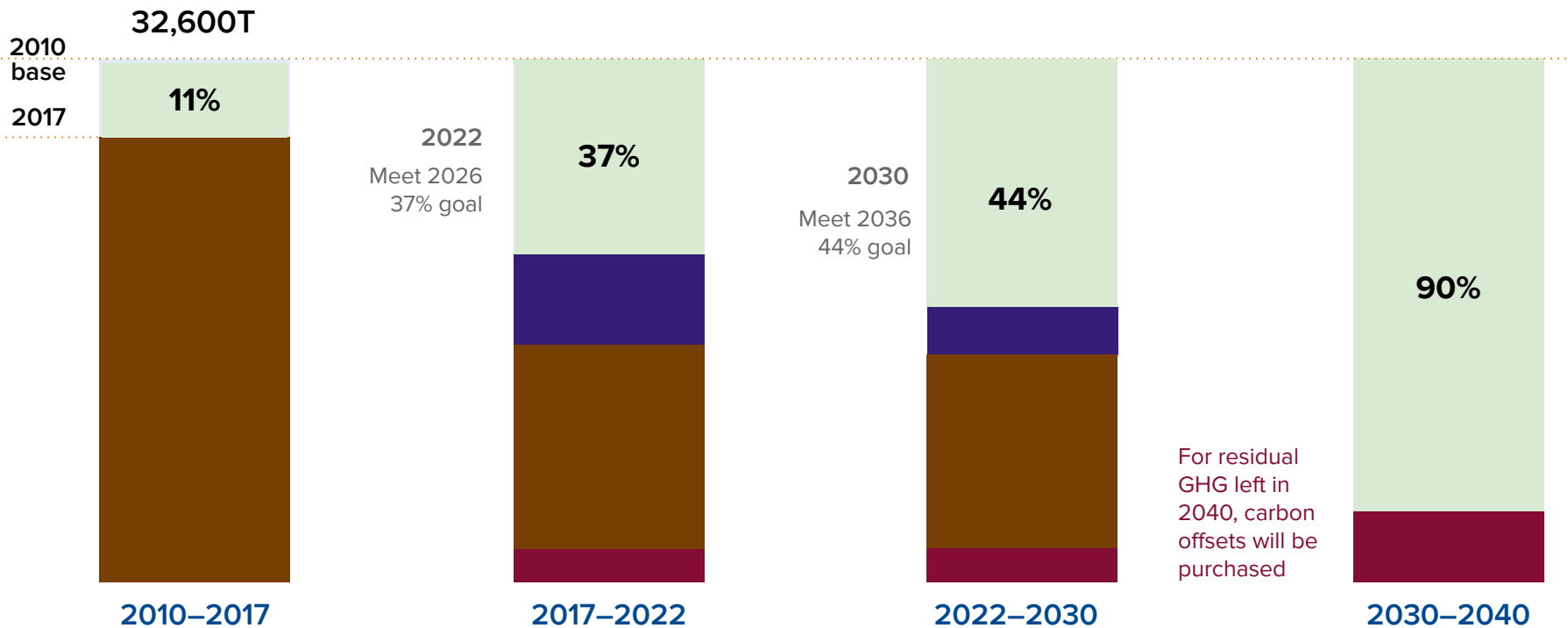
In 2016, Wellesley adopted three primary goals to reduce our carbon footprint.



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

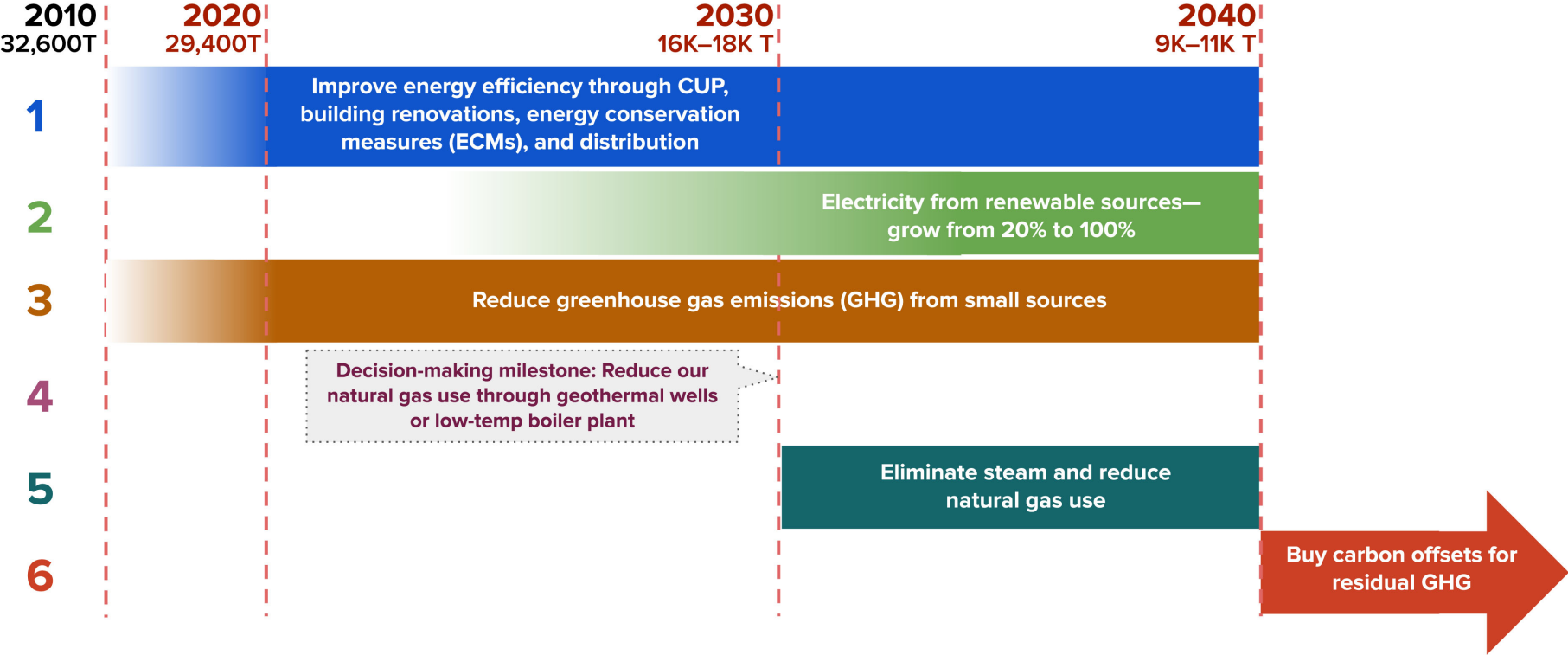
Dark brown rep. GHG from natural gas used for the heating plant

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