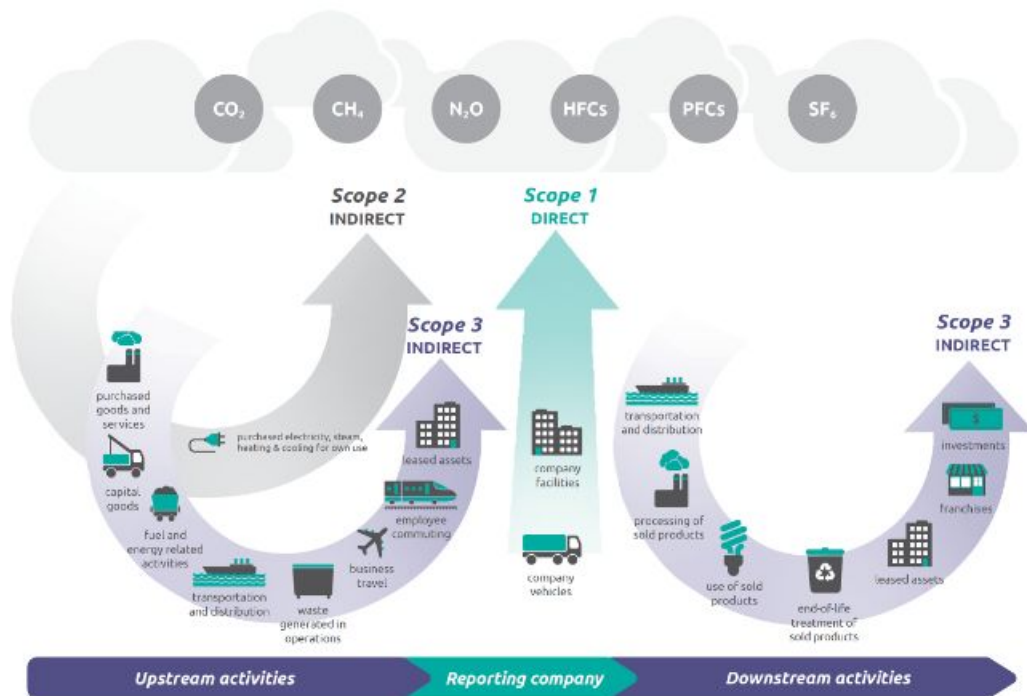
An aerial night view of the Brown University campus. The image shows various buildings with lit windows and roofs, interspersed with trees. A large, dark, semi-transparent rectangular box is overlaid on the upper half of the image, containing white text. The text reads: "Brown will reduce CO2e emissions **75%** below FY18 levels **by 2025**, and reach **carbon neutrality by 2040**".

Brown will reduce CO₂e emissions **75%** below FY18 levels **by 2025**, and reach **carbon neutrality by 2040**



Scope 1 and Scope 2 Emissions Immediate Focus

Overview of GHG Protocol scopes and emissions across the value chain



Scope 1: Fuel burned on site
(buildings, vehicles, etc.)

Scope 2: Electricity purchased for on
site use

Scope 3: All other indirect emissions:
Business travel
Commuting
Purchased goods and services
Waste

All emissions reductions will be
verified by third parties, including The
Climate Registry, to ensure
consistency and accuracy in reporting.



Scope 1 - Eliminate Natural Gas - the long game

What we do now

CO2 and other emissions



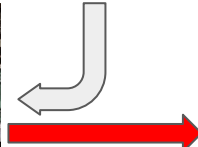
Extract methane



Burn Methane



High temperature water

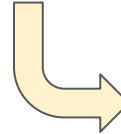


Our future

Low grade heat sources

- chiller plants
- exhaust air
- ground source wells
- atmosphere

Renewable power



MOVE HEAT

Medium temperature water



Good vibes

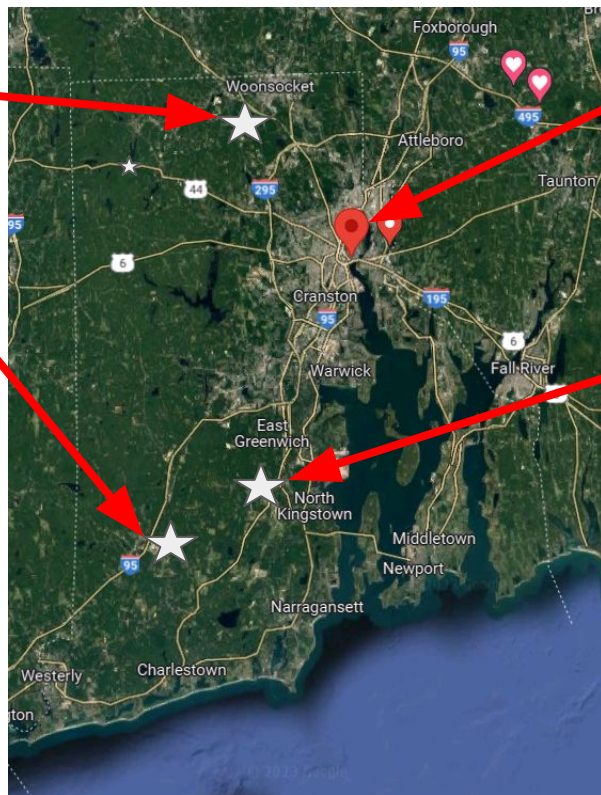


Scope 2 (electricity) - Virtual Net Metering Is Key!

Burrillville - 100% of 3.9 MW Solar Array

Richmond - 90.5% of 2.8 MW Solar Array

Renewable Energy Agreement
8 MW Wind Turbines in TX



Brown - in beautiful Providence - offset all electric use for all campus operations

North Kingstown - 100% of 40 MW Solar Array



Scope 3 Reduction Examples

- Nitrogen / Phosphorus: Commitment to reduce by 25% by 2025, and 50% by 2030
- Commuting: Alternative work arrangements, EV chargers (first hour free), bus passes, shuttles, carpooling benefits
- Business Travel
- Refrigerant Procurement, Use, Handling, Disposal
- Embedded Carbon Considerations
- Waste: Clean Break move-outs, composting



Progress So Far - Scope 1 and Scope 2 Goal

Fiscal Year Emission Totals

Includes Renewable Energy Credits (RECs)

Source: <https://sustainability.brown.edu/commitments/reduce-emissions>

