LEED V3 GOLD
ANTICIPATED

35%
WATER USE REDUCTION

95%
CONSTRUCTION WASTE
DIVERSION

TRANSPORTATION/
COMMUNITY CONNECTION
BICYCLE STORAGE
EV PARKING

32%
LIGHT POWER DENSITY
REDUCTION

RENEWABLE ENERGY
PHOTOVOLTAIC POWER

WELLNESS
NATURAL VENTILATION
SKYLIT ATRIUM
ACTIVE DESIGN

BUILDING ENVELOPE
TRIPLE GLAZING
SUPER INSULATION

76.1 kBTU/sf/yr
ENERGY USE INTENSITY

ENERGY USE REDUCTION
55% LESS THAN BASELINE
47.5% ENERGY COST REDUCTION

SUSTAINABLE FEATURES

ENERGY REDUCTION

1. Atrium Natural Ventilation
2. Cascading Ventilation
3. Demand Control Ventilation
4. VAV Fume hoods with Sash Sensing
5. Chilled beams
6. Atrium Radiant floors
7. High Performance Heat Recovery
8. Reduced lighting power

WELLNESS

9. Skylit Atrium
10. Atrium Natural Ventilation
11. Atrium Acoustics
12. Outdoor Access / View
13. Active Design / Movement

DARTMOUTH COLLEGE | CENTER FOR ENGINEERING AND COMPUTER SCIENCE

The Center for Engineering and Computer Science is a high-performance mixed-use building, including research labs, teaching labs, classrooms, a parking garage, and a large atrium. The building employs numerous energy conservation measures, including: reduced lighting, heat recovery of laboratory exhaust with Konvekta, cascading ventilation, chilled beams, radiant heat, Aircuity and hood sash sensing equipment. Predicted site energy use is 76.1 kBTU/sf/yr, which is 55% less than baseline, and 79% less than the AIA 2030 benchmark.

The project is registered with LEED v3 for New Construction. The design emphasizes energy and water efficiency, demonstrating 6 points for Water Efficiency and 18 points for Optimize Energy Performance. The project anticipates LEED Gold, with 65 points.