

## 232 Highland Street

232 Highland Street, Roxbury

RESILIENCY

Extreme Temperatures

SUSTAINABILITY

Green Building, Carbon Reduction

### Team:

Developer/Design Manager: Urbanica, Inc

Architect: Urbanica Design

LEED Consultant: Interface Studio Architects

Energy Consultant: Conservation Services

Mechanical Engineer: Engineering Design

Build

Status: Completed



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## Extreme Temperatures

The well insulated air tight building envelope minimizes heating and cooling loads today but also during increased extreme heat and cold events. If there is a prolonged interruption of electrical service, the building can coast for several days with minimal loss or gain of indoor temperatures.

## Carbon Reduction

The low energy building design and efficient all electric thermal systems earn the project HERS scores between 39 and 38. With the addition of rooftop solar PV the HERS scores drop to -6 and -9 surpassing zero carbon. Annually, the four unit project surplus enough electricity back to the grid to power a code compliant three bedroom home.



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## Green Building

LEED Homes Platinum Certified  
Point: 90.5

E+ homes are LEED Platinum certified and energy net positive. Located in a dense neighborhood on a previously developed site with excellent transit options ensures the basics of sustainability are built in from the start. Plentiful fresh air, hard surface flooring, cleanable walk-off mats, and no VOC finishes and materials create a healthy and clean indoor environment free of respiratory irritants. Regionally sourced and sustainably harvested and recycled building materials extend the green building benefits beyond the site.



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### MARCELLA STREET



A four-unit multifamily townhouse building totalling 7,900 square feet. Predicted annual electricity production of 44,400 kWh, consumption of 36,900 kWh, net electricity production of 12,600 kWh.

Photo credit Sam Oberter.

### NET ELECTRICITY PRODUCTION

Lifetime	16,551 kWh
Last 365 Days	8,341 kWh
Year to Date	-838 kWh
Last 30 Days	-1,670 kWh

### DAILY PRODUCTION & CONSUMPTION

This chart provides daily whole-building performance data for Marcella Street. On days when the green line is above zero, the building is energy positive for that day. For privacy reasons, the most recent data is not displayed.

