



## Boyde's Crossing Norfolk, MA

### Background

The Boyde's Crossing project in Norfolk received energy efficiency incentives from the Sponsors of Mass Save® through the Massachusetts Residential New Construction Program, with homes completed in 2017 and 2018. Located in Eversource Electric and Columbia Gas territory, this sustainable community consists of 40 single-family homes on 9 acres, just outside the Norfolk town center. Coined a "pocket neighborhood," Boyde's Crossing features smart, high-performance homes grouped around a shared green space. Green building practices, solar photovoltaic (PV) systems, and smart home technology allow these homes to use less than 45% of the energy that a typical new home consumes.

### Project Description

Boyde's Crossing consists of 40 single-family detached homes with a mix of two- and three-bedroom options. The project was constructed with the goal of maximizing energy efficiency through sustainable design, renewable energy, and smart home technology.

### Project Team

- **Developer:** Stonebridge Homes, Inc.
- **Contractor:** Powerhead, LLC
- **Rater:** Home Energy Raters, LLC



#### BOYDE'S CROSSING ENERGY SAVINGS INFORMATION

<b>Heating Fuel</b>	Gas
<b>HERS Score With Solar PV</b>	44
<b>HERS Score Without Solar PV</b>	57
<b>Annual Electric Savings</b>	127 kWh
<b>Annual Natural Gas Savings</b>	21.8 MMBtu
<b>Participant Incentive per Unit</b>	\$1,377.45



## Green Features

### HVAC

- 16 SEER air conditioner with no hydrochlorofluorocarbons
- 96% annualized fuel utilization efficiency furnace
- Energy recovery ventilation systems

### Lighting

- LED lighting
- Lutron Maestro® IR dimmers

### Water

- On-demand tankless water heaters
- Porous pavement for water recharge, a cistern fed by roof drains that irrigate the community victory gardens, and an onsite water well

### Building Envelope

- Low-density foam in walls
- Cathedral ceilings
- U-factor 0.24 windows

### Appliances

- ENERGY STAR® certified appliances
- ecobee4 smart thermostats

### PV

- 3-kW solar PV array

### Insulation

- High R-rating insulation
- Low-emissivity, double-pane windows



## About Mass Save

Mass Save® is a collaborative of Massachusetts' natural gas and electric utilities and energy efficiency service providers, including Berkshire Gas, Blackstone Gas, Cape Light Compact, Columbia Gas of Massachusetts, Eversource, Liberty Utilities, National Grid, and Unitil. We empower residents, businesses, and communities to make energy efficiency upgrades by offering a wide range of services, rebates, incentives, trainings, and information.

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