

ENERGY STAR V3.1 Home Report

CLEAResult®

Property

Lot 3
Edgartown, MA 02568

Organization

CLEAResult
Nicholas Abreu

Inspection Status

Results are projected

Meeting House Place Houses
Energy Star V3.1 w/ Smartflowers

Builder

Pacific Group

Mandatory Requirements

- ✓ Duct leakage at post construction better than or equal to ENERGY STAR v3/3.1 requirements.
- ✓ Envelope insulation levels meet or exceed ENERGY STAR v3/3.1 requirements.
- ✓ Slab on Grade Insulation must be > R-5, and at IECC 2009 Depth for Climate Zones 4 and above.
- ✓ Envelope insulation achieves RESNET Grade I installation, or Grade II with insulated sheathing.
- ✓ Windows meet the 2009 IECC Requirements - Table 402.1.1.
- ✓ Duct insulation meets the EPA minimum requirements of R-6.
- ✓ Mechanical ventilation system is installed in the home.
- ✓ ENERGY STAR Checklists fully verified and complete.

HERS Index Target

Reference Home HERS	60
SAF (Size Adjustment Factor)	1.00
SAF Adjusted HERS Target	<u>60</u>
As Designed Home HERS	26
As Designed Home HERS w/o PV	60

Normalized, Modified End-Use Loads (MBtu / year)

	ENERGY STAR	As Designed
Heating	38.5	46.9
Cooling	2.3	1.4
Water Heating	12.2	7.6
Lights and Appliances	30.5	27.6
Total	83.5	83.4



This home **MEETS** or **EXCEEDS** the energy efficiency requirements for designation as an **EPA ENERGY STAR Qualified Home under Version 3.1**

Pollution Prevented

Type of Emissions	Reduction
Carbon Dioxide (CO ₂) - tons/yr	6.7

Energy Cost Savings

	\$/yr
Heating	-415
Cooling	13
Water Heating	141
Lights & Appliances	119
Generation Savings	1,079
Total	937

The energy savings and pollution prevented are calculated by comparing the Rated Home to the ENERGY STAR Version 3.1 Reference Home as defined in the ENERGY STAR Qualified Homes HERS Index Target Procedure for National Program Requirements, Version 3.1 promulgated by the Environmental Protection Agency (EPA). In accordance with the ANSI/RESNET/ICC 301-2014 Standard, building inputs affecting setpoints infiltration rates, window shading and the existence of mechanical systems may have been changed prior to calculating loads

Emissions Summary

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Emissions by End-Use

Carbon Dioxide (CO₂) [tons/yr]

Heating	5.9
Cooling	0.1
Water Heating	1.0
Lights & Appliances	4.8
Photovoltaics	-6.9
TOTAL	4.9

Sulfur Dioxide (SO₂) [tons/yr]

Heating	0.4
Cooling	0.2
Water Heating	0.0
Lights & Appliances	11.5
Photovoltaics	-17.2
TOTAL	-5.1

Nitrogen Oxide (NO_x) [tons/yr]

Heating	13.3
Cooling	0.1
Water Heating	2.3
Lights & Appliances	6.9
Photovoltaics	-9.7
TOTAL	13.0

Fuel Summary

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Annual Energy Cost

Electric	\$76
Propane	\$2,539

Annual End-Use Cost

Heating	\$2,073
Cooling	\$19
Water Heating	\$364
Lights & Appliances	\$1,102
Onsite Generation	-\$1,079
Service Charges	\$136
Total	\$2,615

Annual End-Use Consumption

Heating [Electric kWh]	254.3
Heating [Propane Gallons]	909.3
Cooling [Electric kWh]	133.2
Hot Water [Propane Gallons]	162.6
Lights & Appliances [Electric kWh]	7,160.5
Lights & Appliances [Propane Gallons]	34.9
Total [Electric kWh]	7,548.1
Total [Propane Gallons]	1,106.7
Total Onsite Generation kWh	10,758.9

Peak Electric Consumption

Peak Winter kW	0.77
Peak Summer kW	1.26

Utility Rates

Electricity	NGRID_MA
Propane	Default Propane