

# **Cold Climate Air Source Heat Pumps**

**NYSERDA supports the  
Hudson Valley Heat Pump Project**

Oct 28, 2017

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# NYSERDA Supported: Hudson Valley Heat Pump Project

## Objectives

- Install air-source heat pumps in 20 homes
- Measure and demonstrate savings
- Increase awareness, understanding and among customers, contractors, and public
- Provide resources for NYSERDA to better promote benefits over time

# Be part of the clean energy future with a cold-climate heat pump

Don't miss your chance to participate by installing this clean energy technology today.

Get hundreds of dollars in rebates from NYSERDA's Hudson Valley Heat Pump Project (HVHPP).



# What is a Heat Pump?

- A heat pump moves heat from a cooler place to a warmer place
- You have at least one heat pump already
  - Air conditioner
  - Refrigerator and freezer
- Some are designed specifically to heat and cool homes
  - “Air source”, “ground source”

# Ductless Heat Pumps



**1. Indoor unit**



**2. Outdoor unit**



**3. Line set**



**4. Control**





# Bedrooms – Small Duct Option:



# “Floor mount” good for large spaces

- Better heat distribution, esp. first/lower floor



- Or ducted system with floor registers



# Outdoor Unit



# Cold Climate Heat Pumps

- Evolving technology over more than a decade
- Built for high performance in cold weather
- **BUSTING a MYTH:**
  - Heat pumps DO work in cold climates
- My house, 2400 Sq. Ft: \$425 for the winter

# Cold Climate Heat Pump Benefits

- Reduce fossil fuel and carbon emissions
- Lower heating \$ (compared to oil, LP, electric)
- Highly efficient air conditioning
- Affordable equipment
- Flexible installation
  - Small unit 1 or 2 zones: heat most of house
  - More zones or central unit: replace heating system



## What can a cold-climate heat pump do for you?

- Improve your home comfort
- Increase your home heating efficiency
- Provide high-efficiency air conditioning
- Reduce your use of fossil fuels and help the environment
- Save on energy costs

## What is the Hudson Valley Heat Pump Project?

The HVHPP, sponsored by NYSERDA and administered by Energy Futures Group, is an opportunity for Hudson Valley homeowners to experience the latest energy-saving technology with the guidance and expertise of professionals who will help you reduce operating costs, optimize comfort, and embrace a clean energy future.

HVHPP participants will receive these additional benefits when installing a cold-climate heat pump:

- **Enhanced manufacturer equipment discounts.**  
Get up to \$1,750 for “best-in-class” cold-climate Mitsubishi heat pump(s)
- **Peace of mind installation.**  
Expert third-party engineering, design support, quality assurance and monitoring to help ensure optimal installation and operation and demonstrate performance
- **Track your energy use.**  
Free eGauge energy monitoring system; track your heat pump and whole-house energy use
- **Act fast.**  
These benefits are only available for up to 20 homes

# NYSERDA Hudson Valley Heat Pump Project

- Single family, year round homes
- Discounts on installation of Mitsubishi systems
- Free online monitoring of heat pumps
- Expert support of design and installation

# Hudson Valley Heat Pump Project

## Contact Us Today

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To learn more and see a list of participating contractors, visit: [energyfuturesgroup.com/hvhpp](http://energyfuturesgroup.com/hvhpp)