

COMMERCIAL & MULTI-FAMILY GROUND SOURCE HEAT PUMP GRANTS



Project Requirements & Eligibility

1. System must be designed by a MassCEC-approved designer
2. Project must use water-to-air, water-to-water, or direct exchange heat pumps that meet the design requirements detailed in section 2.6 of the Program Manual:
<http://bit.ly/GSHPInstallRes>
3. Key requirements include:
 - a. Minimum heat pump efficiency
 - b. Minimum entering water temperature
 - c. Minimum borehole depth
 - d. Multi- or variable- speed blower motors
 - e. Conformance with state well-water guidelines (open loop systems)
4. Property must be located in the electric service territory of **Eversource, Massachusetts National Grid, Unitil, Ashburnham MELP, Holden MLD, Holyoke Gas & Electric, Russell MLD, or Templeton Municipal Light**
5. For retrofits of existing Ground Source Heat Pump (GSHP) systems, confirm eligibility with MassCEC

Grant Formula

For new GHSP installations, maximum grants are \$250,000, calculated as follows:

Grant Component	Large Systems (>120 kBTU/hr) \$ per 12 kBTU/hr	Small Systems (up to 120 kBTU/hr) \$ per 12 kBTU/hr
Base Grant	\$2,000	\$3,500
Efficiency Bonus	\$1,000	n/a
Public and Non-Profit	\$750	\$750
Affordable Housing	\$1,000	\$1,000

For retrofits of existing GSHPs, maximum grants are \$150,000. Retrofit grants typically range from 20% to 30% of eligible expenses.

Rehab Center digs in, strikes savings with Ground Source Heat Pumps

The ground-source heat pump (GSHP) system at Alden Court Nursing Care & Rehab Center in Fairhaven, MA, has provided highly efficient central heating and cooling. With the help of incentives from the Massachusetts Clean Energy Center and the MA Department of Energy Resources, Alden hired Achieve Renewable Energy, LLC, to install 11 GSHPs, which provide over 58 tons of capacity across 35 separately controllable zones.

In addition to greatly increasing occupant comfort, the GSHP system saves over 70% on Alden Court's annual heating and cooling bills and decreases associated carbon dioxide emissions by more than 65%. With no outdoor equipment, the GSHPs are nearly silent and require very little maintenance.



During drilling



Restored lawn, after GSHP installation

GROUND SOURCE HEAT PUMP INCENTIVES COMMERCIAL & MULTI-FAMILY



How to Participate

1. Review all program requirements, including eligibility criteria for the higher incentives for public or non-profit entities, or for affordable housing, in the appropriate program manual:
 - a. Systems over 120 kBTU/hr: refer to *Commercial-Scale GSHP Program Manual*
 - b. Systems up to 120 kBTU/hr: refer to *Residential and Small-Scale GSHP Program Manual*

All program materials can be found at <http://bit.ly/GSHPInstallRes>

2. If the project is at an existing building that has *not* had an energy-efficiency walkthrough completed within the last four years, schedule a free assessment with MassSave (www.masssave.com or 1-866-527-7283).
3. Find a GSHP designer who is participating in the program at <http://bit.ly/GSHPInstallers>, or advise your preferred engineering company that it must demonstrate required qualifications to become a program participant.
4. Primary designer or installer completes an application with the assistance and approval of the system owner, and submits it to gshp@masscec.com. Supporting materials will include:
 - a. Participant's Agreement, signed by system owner
 - b. Heat load calculation summary
 - c. GSHP modeling software output summary
 - d. AHRI rating certificates for the selected heat pumps
 - e. A recent month's electric bill for the property
 - f. Project narrative (for projects > 120 kBTU/hr only)
 - g. If applicable, documentation of eligibility for incentive bonuses
5. **Receive an award letter from MassCEC before beginning installation**
6. Upon completion, the installer, in cooperation with the system owner, completes and submits project documentation to MassCEC. (Large projects are also eligible for an interim milestone payment after ordering the heat pump equipment.)
7. MassCEC issues payment to either the system owner or other entity, as specified in the application.



<http://bit.ly/GSHPforBiz>



gshp@masscec.com



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