

GROUND SOURCE HEAT PUMP

Program Information

Stay cool all summer, stay warm all winter, and save up to 65% on your home's heating and cooling costs with a ground source heat pump (GSHP).

PROGRAM REQUIREMENTS

Must be a customer of FortisBC, or one of the following municipal utilities: Grand Forks, Kelowna, Penticton, Summerland or Nelson Hydro.

WHAT ARE THE BENEFITS OF A GSHP?

Ground Source Heat Pumps (GSHP) are the most energy efficient heating and cooling systems available today. For each unit of electrical energy required to operate the system, three units of energy are collected to provide your home's heating, cooling and hot water requirements. The result is a reduction in your energy costs by up to 65%.

HOW DOES IT WORK?

Solar energy stored in the ground is captured in a solution circulating through a closed loop of buried piping and carried back to the heat pump installed inside your home. Alternately the water from an open loop system (well, river, lake etc.) is utilized by the heat pump. The heat pump distributes heat indoors during winter by operating as a furnace, and collects it during summer, by reversing to function as a central air conditioner.

FINANCIAL INCENTIVE OPTIONS*

Apply for a rebate (Based on \$0.05 per kWh savings. Average rebate on a 4000 sq. ft. home is approximately \$1000) **OR** Apply for a loan of up to \$5000 financed at 4.9% over 10 years OAC. Contact your local PowerSense representative for pre-approval.

QUALIFYING PROJECTS

A GSHP project must meet our program criteria to be eligible for a PowerSense grant or loan. Program criteria are as follows:

1. The GSHP will be installed in a residential dwelling.
2. The GSHP system uses either a closed loop i.e. under-ground piping or an open loop e.g. well, if the water source is suitable.
3. The system equipment, design and installation meets CSA Standards.

OTHER INCENTIVES

LiveSmart BC is a \$60-million government project running until March 31, 2011. This program offers incentives for energy-efficient upgrades, drawing together both federal, provincial, and utility promotions. The first step in the program is to order an energy evaluation for your home by contacting LiveSmartBC at 1-866-430-8765.

*LiveSmart BC

For installations to existing homes you can access the FortisBC rebate through the LiveSmart BC Incentives Program. Therefore if you are installing a heat pump and taking advantage of the LiveSmartBC incentives you do not apply directly to FortisBC for the PowerSense rebate. If you have a home heated primarily using electricity you can still take advantage of our loan, but \$300 will be deducted from the LiveSmartBC rebate.

Home Renovation Tax Credit - a new renovation tax credit of up to \$1,350 toward a wide variety of home improvements, <http://www.cra-arc.gc.ca/gncy/bdgt/2009>

Central Okanagan

Kim Jones — FortisBC PowerSense
Suite 100 - 1975 Springfield Rd. Kelowna,
BC V1Y 7V7
Toll free: 1-866-436-7847 or 250-717-
0808
Fax: 866-530-2966
Email: kim.jones@fortisbc.com

South Okanagan & Similkameen

Phil Hawkes — FortisBC PowerSense
1260 Commercial Way Penticton, BC V2A
3H5
Toll free: 1-866-436-7847 or 250-770-
4606
Fax: 866-674-3692
Email: phil.hawkes@fortisbc.com

Kootenays

Suzanne Stansbury — FortisBC
PowerSense
P.O. Box 130, Trail, BC V1R 4L4
Toll free: 1-866-436-7847 or 250-368-
0501
Fax: 866-674-3530
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GROUND SOURCE HEAT PUMP

Application Form



CHOOSE AN INCENTIVE OPTION

Apply for a rebate (Based on \$0.05 per kWh savings. Average rebate on a 4000 sq. ft. home is approximately \$1000) OR
Apply for a loan of up to \$5000 financed at 4.9% over 10 years OAC. Contact your local PowerSense representative for pre-approval.

CUSTOMER INFORMATION

First Name: _____ Last Name: _____ Utility Account #: _____

Street Address: _____ City: _____ Postal Code: _____

Mailing Address: _____ City: _____ Postal Code: _____

Telephone: (H) _____ Email: _____ Fax: _____

PROJECT INFORMATION

House Floor Size (sq. ft.): Basement: _____ Main Floor: _____ 2nd Floor +: _____

Basement Type: on-slab crawl space partial basement full basement

CONTRACTOR SECTION

Company Name: _____

Mailing Address: _____ City: _____ Postal Code: _____

Telephone: _____ Fax: _____ Email: _____

GSHP DATA

Manufacturer: _____ Model #: _____ Nominal Size (tons): _____

Heating Capacity: _____ BTU/HR @ EWT _____ °C / °F COP Rating: _____ (ARI/ISO/CSA ratings)

EER Rating: _____

INSTALLATION DATA

House Design Heat Loss: _____ kWh or BTU/HR @ _____ °C / °F

Design Cooling Load: _____ BTU/HR @ _____ °C / °F

Backup resistance heat: _____ kWh Hot water tank connected to GSHP? YES NO

Loop Type : CLOSED vertical loop horizontal loop OPEN Well Other: _____

I the GSHP Contactor certify that the information I have provided in GSHP Contactor and GSHP Data sections of this application form is true and correct.

Contractor Signature: _____ **Print Name:** _____ **Date (dd/mm/yy):** _____

TERMS AND CONDITIONS

• To be eligible for a rebate or loan, I understand that the residence where the upgrades are being installed must be in FortisBC Inc.'s service territory (this includes the City of Kelowna, City of Penticton, City of Nelson, District of Summerland, and Grand Forks) and must have an active account.

• I understand that if requested by FortisBC Inc., reasonable access must be provided to the residence where the GSHP has been installed, to permit FortisBC Inc.'s representative to verify compliance with program criteria. Payment of rebates maybe withheld or denied if an inspection cannot be conducted, or if any information stated has been misrepresented or cannot easily be confirmed.

• I agree that the selection, purchase, installation and ownership/maintenance of the products and measures listed in the rebate application are my sole responsibility and that the supplier/installer of these products is not affiliated with FortisBC Inc. I understand that neither FortisBC Inc. make any presentations or warranties of any kind, expressed or implied, concerning any products or measures, whether or not a rebate is claimed in respect of the products or measures. I agree that neither FortisBC Inc.

hold any liability concerning the quality, safety, performance and/or installation of products or measures; the estimated energy savings of the products or measures; the workmanship of any third parties; and the installation or use of the products or measures.

I declare that I am the homeowner and that the information on this form is to the best of my knowledge accurate and complete.

Signature: _____ **Print Name:** _____ **Date (dd/mm/yy):** _____

APPLICATION CHECKLIST

Attach invoices (copies are acceptable). Invoices **must** clearly show project details, items purchased and total cost.

Sign and date application form.

Fax or mail application form and receipts to your local PowerSense representative