U.S. Department of Energy Energy Information Administration Form EIA-902

ANNUAL GEOTHERMAL HEAT PUMP MANUFACTURERS SURVEY

This report is **mandatory** under the Federal Energy Administration Act of 1974 (Public Law 93-275). Failure to comply may result in criminal fines, civil penalties and other sanctions as provided by law. For further information concerning sanctions and data protections, see the sanction provision and the provisions concerning the confidentiality of information in the Instructions. **Title 18 USC 1001 makes it a criminal offense for any person knowingly and willingly to make to any Agency or Department of the United States any false, fictitious, or fraudulent statements as to any matter within its jurisdiction.**

THE REPORTING PERIOD FOR THIS SURVEY IS THE CALENDAR YEAR

For glossary and instructions, please refer to the instructions for this form.

1.0 IDENTIFICATION DATA

1.1 Respondent Identification: <company name=""></company>	<company id=""></company>
Current Address of Principal Business Office	Current Address of Preparer's Office (If different than principal address)
(a) Street Address:	(a) Street Address:
(b) City:	(b) City:
(b) City: (c) State/U.S. territory or possession:	(b) City: (c) State/U.S. territory or possession:
(d) Zip Code	
(d) Zip Code:	
1.2 Provide the name, title, and contact information for the princip	(d) ZIP Code: bal people in your company to whom questions should be addressed regarding this
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1.2 Provide the name, title, and contact information for the princip submission.	 pal people in your company to whom questions should be addressed regarding this (a) Preparer's Name:
1.2 Provide the name, title, and contact information for the princip submission. (a) Preparer's Supervisor Name:	 bal people in your company to whom questions should be addressed regarding this (a) Preparer's Name:
 1.2 Provide the name, title, and contact information for the princip submission. (a) Preparer's Supervisor Name:	bal people in your company to whom questions should be addressed regarding this (a) Preparer's Name: (b) Title: (c) Telephone:

2.0 MANUFACTURING STATUS

2.1 During the current reporting period, did your company:	(Mark as ap	propriate)
(a) Manufacture and ship geothermal heat pumps?	□ Yes	□ No
(b) Cease manufacturing but continue to ship geothermal heat pumps?	□ Yes	🗆 No
(c) Import and ship geothermal heat pumps?	□ Yes	🗆 No
(d) Manufacture and export geothermal heat pumps?	□ Yes	□ No

Note: If you answered "Yes" to any part of question 2.1, please complete the remainder of this form. If you answered "No" to all parts of question 2.1, please complete questions 2.2 & 7.0 and submit this form electronically using EIA's secure Internet Data Collection (IDC) system.

2.2 If you answered "No" to *all* parts of question 2.1, do you plan to manufacture, import, export, or ship geothermal heat pumps in the future? If yes, when? _____ (year) __ Yes __ No

3.0 MANUFACTURER AND MARKETING DATA

3.1 Mark the appropriate box or boxes to indicate all the geothermal heat pump-related activities in which your company was engaged during the survey year. Mark only those that apply to your geothermal heat pump-related activities.

- (a)
 Geothermal heat pump manufacturing
- (b)
 Geothermal heat pump or system design
- (c) D Prototype geothermal heat pump development
- (d)

 Prototype systems development
- (e)
 Uholesale distribution
- (f)

 Retail distribution
- (g)
 □ Installation
- (h)
 Manufacture of system components-other than those used for geothermal heat pump assembly
- (i) □ Other (describe):

3.2 If you are planning to introduce a new geothermal heat pump-related product in the next calendar year, please check the appropriate box.

- (a)
 □ ARI-320 Water-Source Heat Pumps
- (b)

 ARI-325 Ground Water-Source Heat Pumps
- (c) 🗆 ARI-330 Ground Source Closed-Loop Heat Pumps
- (d) 🗆 ARI-870 Direct Geoexchange Heat Pumps
- (e) 🗆 Other describe
- (f) D Non-geothermal Heat Pump System Components- describe _
- 3.3 Please enter the number of person-years expended in your company in geothermal heat pump-related activities during the survey year. _____ person-years (For clarification of "person-year" see the instructions.)

3.4 What percentage of your company's total sales revenue do geothermal heat pump-related activities compose?

(a) □ 90 - 100% (b) □ 50 - 89% (c) □ 10 - 49%

(d) 🗆	Less	than	10%

Company Name:

Reporting Period (Calendar Year)

4.0 GEOTHERMAL HEAT PUMP SHIPMENT DATA. For each type of geothermal heat pump manufactured or imported, and shipped, enter the data for this reporting period.						
			TYPE	E OF HEAT PUMP		
		ISO-13256-1 ¹				
ITEM	ARI-320 Total ² (a)	ARI-320 GHP Only ³ (b)	ARI-325/330 (c)	ARI-870 (d)	Other (Non-ARI Rated) (e)	TOTAL Geothermal Heat Pumps (f)
						Total = (b) + (c) + (d) + (e)
4.1 Number of Heat Pumps						
4.2 Total GHP Shipments (total rated capacity in tons)						
4.3 Total Value of GHP Shipments (dollars)						
4.4 Average Cooling (EER)						
4.5 Average Heating (COP)						
 4.6 Domestic Shipments by Sector (total rated capacity in tons) (4) Desidential 						
(1) Residential (2) Commercial						
(3) Industrial						
(4) Electric Power						
(5) Transportation						
(6) Total domestic shipments by sector ⁴						
4.7 Domestic Shipments by End Use (total rated capacity in tons)						
(1) Hot Water						
(2) Ice Melt						
(3) Pool Heating						
(4) Process Hot and Cool Water						
(5) Space Heating and Cooling						
(6) Triple Function: Heating, Cooling, and Hot Water						
(7) Total domestic shipments by end use ⁴						
4.8 Imports (total rated capacity in tons)						
4.9 Exports (total rated capacity in tons)				Ì		

¹ARI/ISO Standard 13256-1 Certification Program, which replaced ARI Standard-320, 325, and 330. ² Do not include total number of ARI-320 in total GHP in item 4.1 (e). ³ In this column, only report ARI-320 units connected to ground, ground water, or surface water connection for heat exchange. Do not include units connected to a boiler and/or cooling tower.

⁴Domestic shipments equal to total GHP shipments in item 4.2 minus exports in item 4.9.

4.10 List of Country(ies) of Origin for Imports in 4.8 (f) and Shipments (total rated capacity in tons)

Country	Shipments (Tons)
Total	

4.11 List of Country(ies) of Destination for Exports in 4.9 (f) and Shipments (total rated capacity in tons)

Country	Shipments (Tons)
.	
Total	

4.12 Domestic Shipments by Customer Type (total rated capacity in tons).

Tons (Domestic Shipments)

(a) Exporters	
(b) Wholesale Distributors	
(c) Retail Distributors	
(d) Installers	
(e) End - Users	
TOTAL	

5.0 SYSTEMS DATA

5.1 Of the geothermal heat pump shipments reported in 4.2 (f), how many complete systems were shipped_____(number of systems)?

5.2 Of the geothermal heat pump shipments reported in 4.2 (f) enter the total rated capacity that were sold as part of complete systems_____(tons)?

5.3 What was the value of complete systems shipped in question 5.1_____(dollars)?

6.0 GEOGRAPHIC DATA

6.1 Please check the box for each State/U.S. territory or possession in which you manufactured/imported. Report the total geothermal heat pumps shipments (total rated capacity in tons) in item 4.2 (f) that your company manufactured in the State/U.S. territory or possession listed below under Code 01-78, this indicates manufacture from the State/U.S. territory or possession. If some geothermal heat pumps were imported from another country, please indicate under Code 00 the total rated capacity and report details about the country of import in question 4.10.

	Geother tate ode	mal Heat Pumps Imported or Manufactured in the State (Tons)	State Code	Geothermal Heat Pumps Imported or Manufactured in the State (Tons)	State Code	Geothermal Heat Pumps Imported or Manufactured in the State (Tons)
00 🗆	Imported_		_ 22 🗆	Louisiana	_ 41 🗆	Oregon
01 🗆	Alabama_		_ 23 🗆	Maine	_ 42 🗆	Pennsylvania
02 🗆	Alaska		24 🗆	Maryland	44 🗆	Rhode Island
04 🗆	Arizona		25 🗆	Massachusetts	. 45 🗆	South Carolina
05 🗆	Arkansas		_ 26 □	Michigan	46 🗆	South Dakota
06 🗆	California		27 🗆	Minnesota	47 🗆	Tennessee
08 🗆	Colorado_		28 🗆	Mississippi	_ 48 🗆	Texas
09 🗆	Connectio	cut	29 🗆	Missouri		Utah
10 🗆	Delaware		_ 30 🗆	Montana	_ 50 🗆	Vermont
11 🗆	D.C		_ 31 🗆	Nebraska	_ 51 🗆	Virginia
12 🗆				Nevada		Washington
13 🗆	Georgia_		33 🗆	New Hampshire	_ 54 🗆	West Virginia
15 🗆				New Jersey	_ 55 🗆	Wisconsin
16 🗆				New Mexico		Wyoming
17 🗆				New York	_ 60 🗆	American Samoa
18 🗆				North Carolina	_ 66 🗆	
19 🗆				North Dakota	_ 72 🗆	Puerto Rico
20 🗆				Ohio	_ 78 □	Virgin Islands (U.S.)
21 🗆				Oklahoma	_ □	Other U.S. territory or possession (Specify)

Total _____

6.2 Please check the box for each State/U.S. territory or possession to which you shipped/exported. Report the total geothermal heat pumps shipments (total rated capacity in tons) in item 4.2 (f) that your company shipped to the State/U.S. territory or possession listed below under Code 01-78, this indicates shipments to the State/U.S. territory or possession. If some geothermal heat pumps were exported to another country, please indicate under Code 00 the total rated capacity and report details about the country of export in question 4.11.

Sta Cc	Geothermal Heat Pumps Exported ate or Shipped de to a State (Tons)	State Code	Geothermal Heat Pumps Exported or Shipped to a State (Tons)	State Code	Geothermal Heat Pumps Exported or Shipped to a State (Tons)
00 🗆	Exported	_ 22 🗆	Louisiana	41 🗆	Oregon
01 🗆	Alabama	_ 23 🗆	Maine	42 🗆	Pennsylvania
02 🗆	Alaska	24 🗆	Maryland	. 44 🗆	Rhode Island
04 🗆	Arizona	25 🗆	Massachusetts	45 🗆	South Carolina
05 🗆	Arkansas	26 🗆	Michigan	46 🗆	South Dakota
06 🗆	California	27 🗆	Minnesota	47 🗆	Tennessee
08 🗆	Colorado	28 🗆	Mississippi	48 🗆	Texas
09 🗆	Connecticut	29 🗆	Missouri		Utah
10 🗆	Delaware	30 🗆	Montana	_ 50 🗆	Vermont
11 🗆	D.C	31 🗆	Nebraska	_ 51 🗆	Virginia
12 🗆	Florida		Nevada		Washington
13 🗆	Georgia	33 🗆	New Hampshire	_ 54 🗆	West Virginia
15 🗆	Hawaii	34 🗆	New Jersey	55 🗆	Wisconsin
16 🗆	Idaho	35 🗆	New Mexico	_ 56 🗆	Wyoming
17 🗆	Illinois		New York		American Samoa
18 🗆	Indiana		North Carolina	66 🗆	Guam
19 🗆	lowa		North Dakota	72 🗆	Puerto Rico
20 🗆	Kansas		Ohio	_ 78 □	Virgin Islands (U.S.)
21 🗆	Kentucky		Oklahoma	_ □	Other U.S. territory or possession (Specify)

Total _____

7.0 COMMENTS - Enter comments in the space provided.