



# NY - G E O 2024

APRIL 8-9 | ALBANY NY



## AFTERNOON SESSION

**Welcome:** John Ciovacco, [Conference Co-Chair](#) / NY-GEO

**Gold Sponsor Remarks:** John Thomas / [WaterFurnace](#)  
Gino Di Rezze/ [Groundheat](#)

**National Update:** Jeff Hammond / [IGSHPA](#)  
Ryan Dougherty / [GeoExchange](#)

**NY-GEO Review:** Bill Nowak, [Legislative Update](#) / NY-GEO  
Christine Hoffer, [NY-GEO Review](#)

**Afternoon Keynote:** KEYNOTE: Alexis McKittrick / [Geothermal Technologies Office](#)  
[U.S. Department of Energy](#)



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*Water* **Furnace**®

*Smarter from the Ground Up*™





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GEO THERMAL PIONEERS.....SINCE 1985



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## National Update:



**Jeff Hammond**  
Executive Director  
IGSHPA



**Ryan Dougherty**  
President  
GeoExchange Organization



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## NY-GEO Update:



**Christine Hoffer**  
Executive Director  
NY-GEO



**Bill Nowak**  
NY-GEO BOD  
Legislative Review



# NY - GEO Policy Priorities



## Ongoing...

- Drilling Deeper Than 500'
- NENY - \$5 B - EE & Electrification - 4/12
- Con Edison Select Pricing
- Thermal Energy Networks
- Geo as Storage Saves the Electric Grid

## Need your help today !

- NY Tax Credit – Refundable & \$10k
- NY HEAT Act – Reduce Gas Subsidies



# NY - GEO Policy Priorities



- Geo Tax Credit – Refundable & \$10k  
Email at: [Bit.ly/geotax](https://bit.ly/geotax)
- NY HEAT Act – Reduce Gas Subsidies  
Email at: [Bit.ly/nyhe](https://bit.ly/nyhe)
- Call Assembly Speaker Carl Heastie  
*(sounds like Hasty)*  
518-455-3791

Business support memo – [billnowa@gmail.com](mailto:billnowa@gmail.com)



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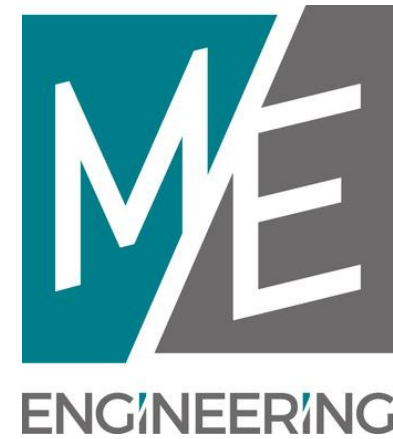
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Morris Industries, Inc.

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NYS DPS

Phoneix Energy Supply

RJ Murray

Rototec LLC

Stark Tech

The Driller Podcast

UA Local 7 Plumbers/Steamfitters

Waterless Geothermal

*Thank  
You!*



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## NY-GEO HISTORY 10 YEARS - 2014

- **2014 01 25** – Call re getting the geo industry organized in NY
- **2014 02 13** – Original NY-GEO conference organized through Phoenix Energy as the prime upstate gshp distributor
- **2014 02 21 and 28** – NY-GEO organizing phone meetings
- **2014 04 25** – 1st NY-GEO 3:00 PM Friday call
- **2014 05 05** Diane Burman (probably the same date we met with National Grid and with John Rhodes head of NYSERDA and Audrey Zibelman – head of the PSC)
- **2014 06 23** NY-GEO legal formation meeting
- **2014 06 18** – Call with Pete Sheehan from the Department of Public Service
- **2014 06 18** – call w Bob Wyman on geo financing
- **2014 07 14** – NY-GEO interim board 1st meeting



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## FOUNDING MEMBERS

John Abularrage, Advanced Radiant Design, Inc.  
Roger Anthony, Anthony's Heating and Contracting  
Keith Bell, Bell HVAC  
Philip Blatner, Capital Heat Inc.  
Bryan Bourque, Bourque Mechanical Systems, Inc.  
Edward Byrne, Paradise Heating and AC, LLC  
Peter Cann, Cann Geothermal Plus  
Joseph Carey, Choice Heating and Cooling, LLC  
Garrett Carrino, American Well & Pump Co  
John Ciovacco, Aztech Geothermal  
Daniel Cochran, Renaissance HVAC  
Donald Colbert II, Freedom Mechanicals, LLC dba  
Cornerstone Services  
Roger Connelly, Geo Tech Climate Control  
Brett Conyer, Integrated Geothermal, LLC  
Jesse Cook, Geotherm, Inc.  
Sam Cosamano, IPD Engineering  
Steven Couse, Earth Energy Connections Inc  
David Cramer, Zoe Energy Solutions Inc.  
Ryan Dailey, Dailey Electric Inc  
Adam DeVit, Thermal Associates  
John B. DeVitt, Advanced Thermal Technologies  
Doug Dougherty, The Geothermal Exchange  
Organization (GEO)  
John (Jack) P. DiEnna, Jr., Geothermal National &  
International Initiative  
Josh Einbinder, NY GreenTech

Bill Feldmann, Empire Clean Energy Supply  
Zachary Fink, ZBF Geothermal, LLC  
Brad Fisher, Friedman Fisher Associates, P.C.  
Tim Foley, Foley Mechanical, Inc.  
Tamar Fox  
John Franceschina, PSEG Long Island  
Mike Goekbora, GeoThermal Tools, Inc.  
Donovan Gordon, D. Gordon Consulting, Inc.  
Peter Grill, Meadowlands Geothermal  
Lloyd Hamilton, Verdae, LLC  
Geoffrey Hanowitz, Woodstock Plumbing Heating AC,  
LLC  
Jonathan M. Harkness, EBM Consulting Services  
AJ Heiligman, Alternative Carbon Energy Systems, Inc.  
Allen Hicks, Energy Efficiency Consultants LLC  
Robert Jensen, Agreeability  
Lori Kempf, Suffolk Systems Inc.  
Dale La Quay, Diversified Energy System Installations  
Harshad Lakhani, Lakhani & Jordan Engineers  
Charles Lazin, Altren Consulting & Contracting, Inc.  
John Lembo, TRC Energy Services  
John Manning, Phoenix Energy Supply  
Joe Miranda, Aquifer Drilling & Testing Inc.  
Jim Moench, Geothermal Services, Inc.  
Jesse Monette, Blake Equipment  
Kevin Moravec, Moravec Geothermal

Paul Moshano, PM Innovations  
James Murray, Greenway Energy Solutions Inc.  
Brian Nodine, Nodine's Heating  
Zachary Nothnagle, Nothnagle Drilling  
Bill Nowak, Buffalo Clean Energy  
Kevin O'Rourke, O'Rourke Groundwater Developing, LLC  
Joe Parsons, EarthLinked Technologies, Inc.  
Tony Penachio, GeoColumn HX  
Tom Piekunka, Piekunka Systems Inc  
Jens Ponikau, Buffalo Geothermal Heating  
Nicholas Pryputniewicz, NP Environmental, LLC  
Lynette Raimondi, AP Plumbing  
Len Rexrode, Aquifer Drilling & Testing Inc.  
John Rhyner, PW Grosser Consulting  
Billii Roberti, Green Choices Consulting  
Jeff Rosenberg, Geothermal Energy of Oneonta, Inc.  
Chuck Russo, Chuck Russo Heating & A/C, LLC  
Bennett Sandler, Equity Energy  
Amanda Schneck, WaterFurnace  
John Schretzmayer, Associated Environmental Services, Ltd  
Dan Silvestri, D. Silvestri Sons Inc.  
Hal Smith, Halco Energy  
James Snyder, Snyder Manufacturing, Inc.  
Steve Tallman, Tag Mechanical  
Bill VanHee, Van Hee Mechanical  
Mike Veeder, Kool-Temp Heating & Cooling



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## MEMBERSHIP - MAXIMIZE IT!

- Working groups
- Utilize the website
- Maximize your listing
- Post your job openings
- Share your news & events
- Conferences:
  - *Sponsor → Exhibit → Attend*



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## NYSERDA

- Grow Membership
- Grow Geothermal Installs
- Grow GSHP Sales
- Grow Workforce



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## ACT - ADVOCACY COMMUNICATION TASKFORCE

Launched first initiative - National Geothermal Month  
April

**IGSHPA**

**NATIONAL GEOTHERMAL MONTH APRIL 2024**

**NATIONAL GEOTHERMAL MONTH**  
**Geothermal for *Sustainability!***

**NATIONAL GEOTHERMAL MONTH**  
**Geothermal for *Efficiency!***

**NATIONAL GEOTHERMAL MONTH**  
**Geothermal for *Clean Energy!***

**NATIONAL GEOTHERMAL MONTH**  
**Geothermal for *the Earth!***



# NY-GEO 2024

## OCTOBER 21-23 | BROOKLYN



# Join Us

All registered attendees to receive a special code to use within 30 day!



# NY - GEO 2024

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**Alexis McKittrick, Ph.D.,  
Program Manager Low Temperature  
Geothermal, U.S. Department of Energy**



# Geothermal Technologies Office: Pumped Up about Geothermal Heat Pumps

Alexis McKittrick, PhD

Program Manager, Low Temperature and Coproduced Resources



# GTO's Program Areas

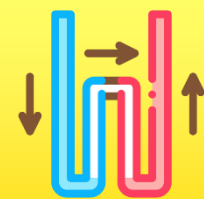
GTO aims to increase all geothermal energy deployment through research, development, and demonstration of innovative technologies that enhance exploration and production.



## Enhanced Geothermal Systems



## Hydrothermal Resources



## Low Temperature and Coproduced Resources



## Data, Modeling, and Analysis



# DOE and the Administration are Pumped about GHPs!

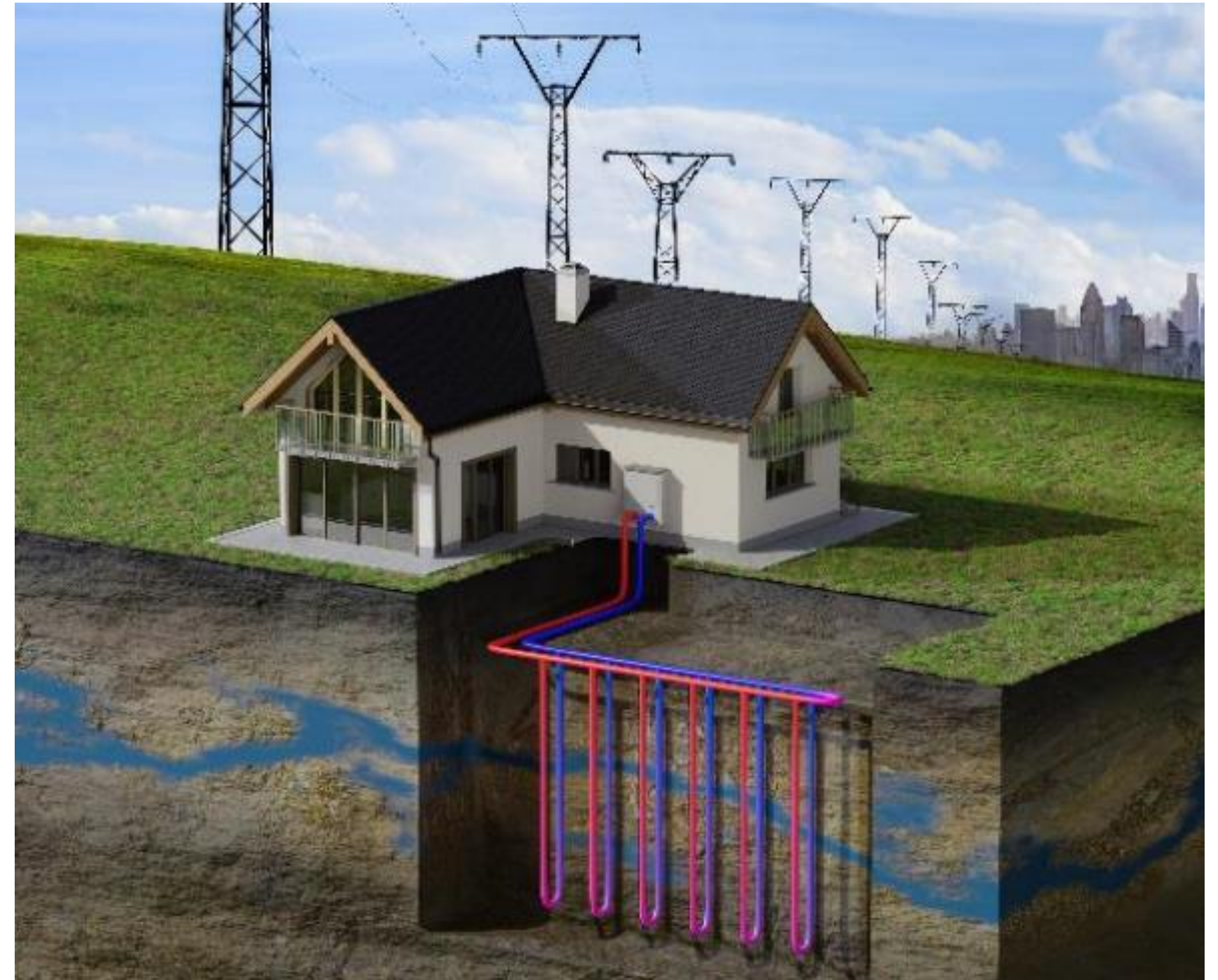
- Impacts Report highlighting the significant value of GHPs as a grid cost reduction and decarbonization technology
- Funding multiple projects across the country
- Supporting heat pump manufacturing
- Providing tax incentives
- Creating educational resources and sharing the news about how the many benefits of GHPs!



# GHP Impacts Report

GTO-funded analysis by Oak Ridge National Lab and National Renewable Energy Lab to assess how mass deployment of geothermal heat pumps (GHPs) can provide cost and carbon reductions at the grid.

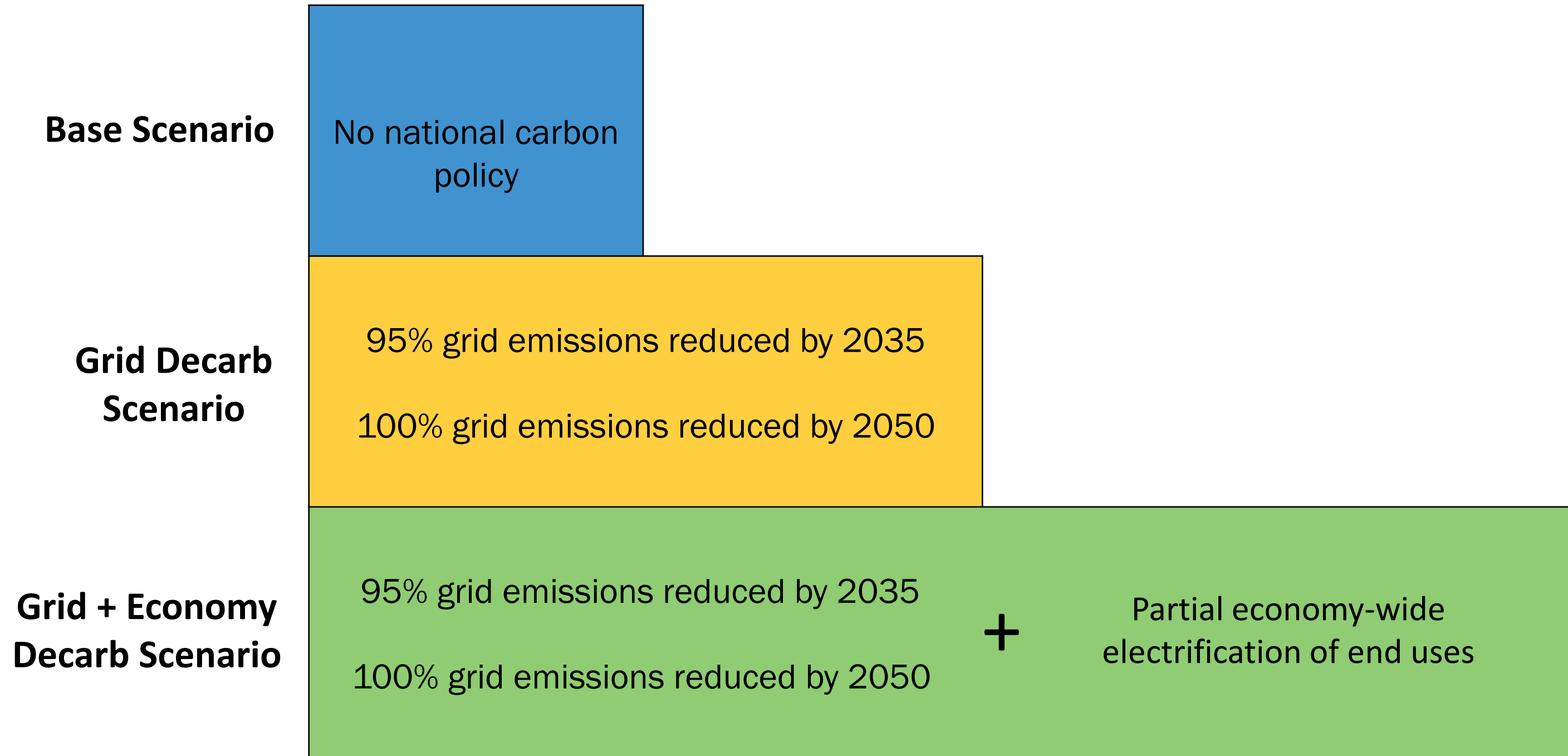
- Aimed to quantify:
  - Effects on building electricity use and emissions resulting from mass deployment of GHPs
  - Impacts to the bulk power system under various carbon policy, electrification, and sensitivity scenarios.



<https://www.osti.gov/biblio/2224191>



# GHP Impacts Report: Modeled Scenarios Through 2050



**Each scenario modeled with and without mass GHP deployment assuming:**

- 100% eligible GHP retrofit + new residential and commercial buildings
- Linear GHP deployment rate to 100% from 2020 to 2050

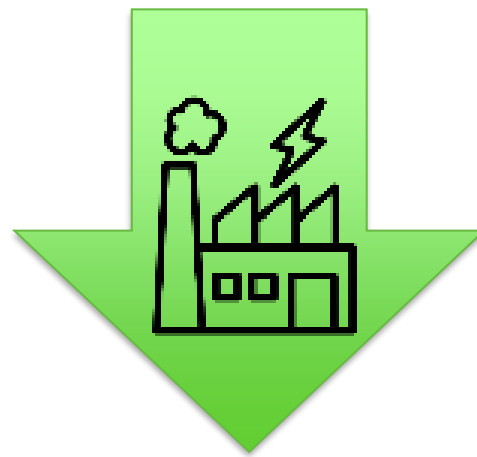
<https://www.osti.gov/biblio/2224191>



# GHP Impacts Report: A Really Big Deal!



Eliminate the need for up to 43,600 miles of new interregional transmission infrastructure – equivalent of up to 44 SunZia transmission projects



Reduce up to 410 GW of nationwide generation capacity requirements – bolstering seasonal U.S. grid resilience



Eliminate more than 7 gigatons of carbon – equivalent to all U.S. emissions produced in 2022

<https://www.osti.gov/biblio/2224191>

- Phase II work to assess and quantify how:
  - GHP adoption aligns with the Administration’s Justice40 Initiative
  - GHPs can accelerate the U.S. clean energy workforce transition
  - GHPs can provide a path forward for natural gas distribution utilities in a decarbonized future.



*EERE’s Alejandro Moreno and GTO’s Alexis McKittrick, Sean Porse, and Jeff Winick discuss the new GHP impacts report at the 2023 International Ground Source Heat Pump Association (IGSHPA) Annual Conference. Photo Credit: Bryce Carter*



# GHP Analysis



New feature in NREL's **REopt** web tool allows users to compare GHP and hybrid geothermal heat exchange systems using information like system size, intended use, and current energy costs to identify optimally-sized heating and cooling solutions








## Step 1: Select Single Site or Portfolio Analysis




Single Site   Portfolio Analysis 

## Step 2: Choose Your Energy Goals



Cost Savings \$  Resilience   Clean Energy 



## Step 3: Select Your Technologies



PV   Battery   Grid   Wind   CHP 


Prime Generator   Chilled Water Storage   Geothermal Heat Pump 



## Step 4: Enter Your Site Data

 Site and Utility (required) 

\* Site location    Use sample site

\* Electricity rate   

Use custom electricity rate 

 Optional inputs  Reset to default values

<https://reopt.nrel.gov/>



# Community-Focused Geothermal

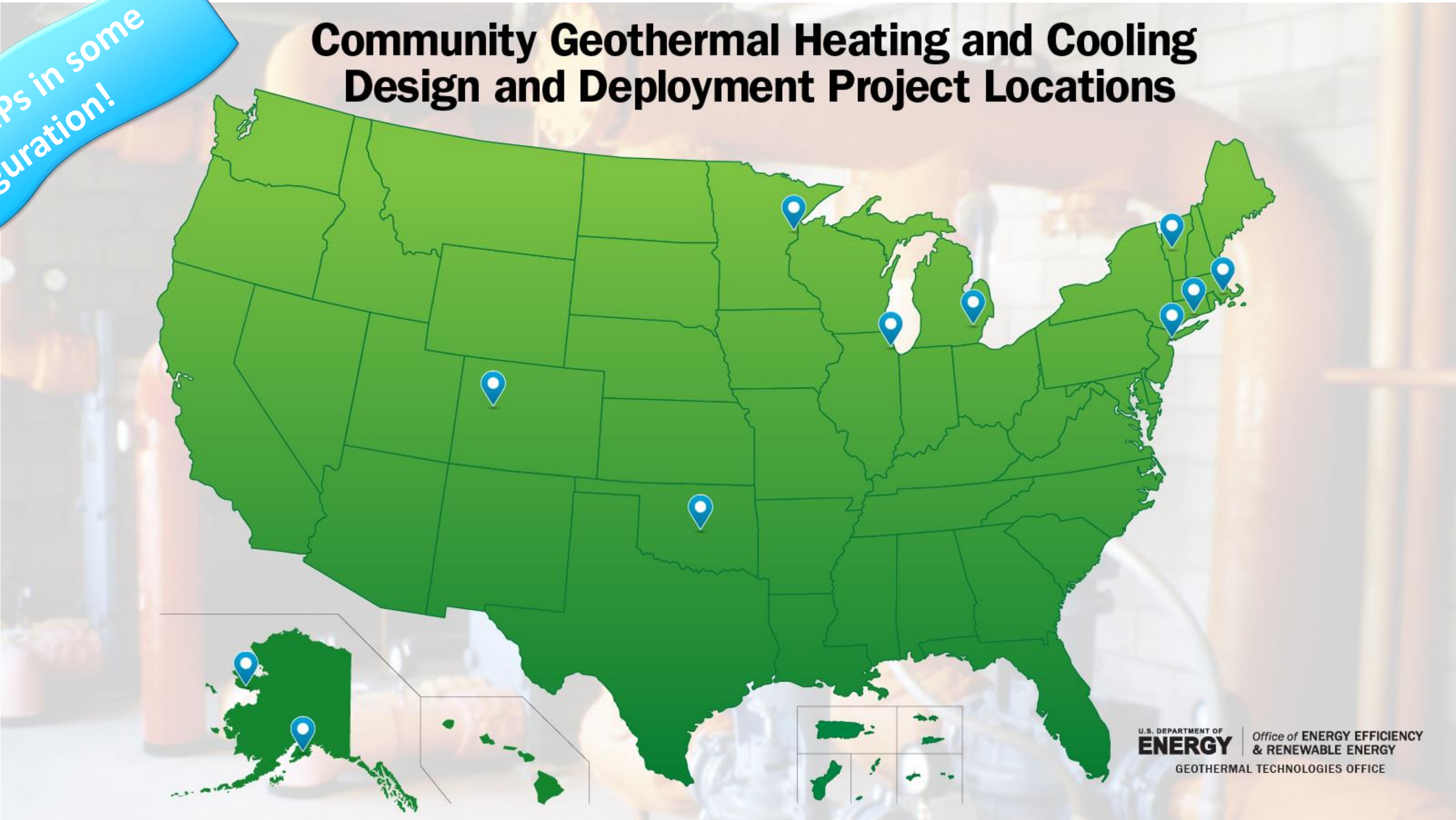
- **Deploy** new or retrofitted geothermal or geothermal-hybrid heating and cooling systems in U.S. districts, neighborhoods, and communities
- Identify solutions for **environmental justice** conditions
- Assist U.S. communities to develop career and **technical education** and **workforce** transition
- Develop U.S. **case studies** about projects, including technical and economic data, to illustrate how projects can be replicated
- Publish **data and information** about U.S. geothermal district heating and cooling system deployment.



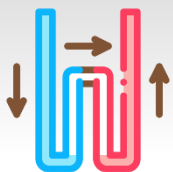
# Community-Focused Geothermal

All using GHPs in some configuration!

## Community Geothermal Heating and Cooling Design and Deployment Project Locations



[energy.gov/eere/geothermal/community-geothermal-heating-and-cooling-design-and-deployment](https://energy.gov/eere/geothermal/community-geothermal-heating-and-cooling-design-and-deployment)

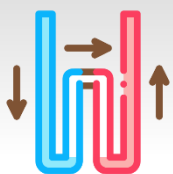


# Community-Focused Geothermal: Urban/Suburban

- **Ann Arbor, MI** (Lead: City of Ann Arbor)
  - 5<sup>th</sup>-gen system to cover at least 75% of heating and cooling loads for low-income households and public/city buildings
- **Chicago, IL** (Lead: Blacks in Green™)
  - 5<sup>th</sup>-gen system with modular approach for >100 multi-family and single-family residential buildings
- **Duluth, MN** (Lead: City of Duluth)
  - 4<sup>th</sup>-gen system with waste heat from local wastewater treatment captured



[energy.gov/eere/geothermal/community-geothermal-heating-and-cooling-design-and-deployment](https://energy.gov/eere/geothermal/community-geothermal-heating-and-cooling-design-and-deployment)



# Community-Focused Geothermal: Urban/Suburban

- **Framingham, MA** (Lead: Home Energy Efficiency Team)
  - 5<sup>th</sup>-gen utility-managed system to meet 100% of the heating and cooling needs of the connected buildings
- **New York City, NY** (Lead: Electric Power Research Institute)
  - 4<sup>th</sup>- or 5<sup>th</sup>-gen integrated systems to serve apartments identified for geothermal upgrades
- **Wallingford, CT** (Lead: CT Department of Energy and Environmental Protection)
  - 5<sup>th</sup>-gen system to serve at least 50% of heating and cooling loads of an affordable housing complex



[energy.gov/eere/geothermal/community-geothermal-heating-and-cooling-design-and-deployment](https://energy.gov/eere/geothermal/community-geothermal-heating-and-cooling-design-and-deployment)

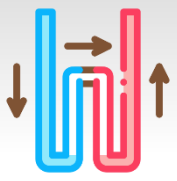


## RURAL COMMUNITIES

- **Carbondale, CO** (Lead: Clean Energy Economy for the Region)
  - 5<sup>th</sup>-gen system to supply at least 25% of the heating and cooling needs for a mix of public and residential buildings
- **Middlebury, VT** (Lead: GTI Energy)
  - GHP system to provide heating and cooling to a 100-home affordable housing development
- **Seward, AK** (Lead: City of Seward)
  - 4<sup>th</sup>-gen heat pump system to <90% of heating demand for half of City buildings
- **Shawnee, OK** (Lead: University of Oklahoma)
  - Hybrid solar-geothermal system to provide heating and cooling to a community owned and operated by a Tribal Nation

## REMOTE/ISLANDED COMMUNITY

- **Nome, AK** (Lead: Kawerak, Inc.)
  - Direct-use space heating and food storage cooling system



# Como Zoo and Conservatory, St. Paul, MN

- Congressionally-Directed Project to replace existing natural gas steam boiler heating in the Primates Building with a GHP
  - Follows a feasibility study by the Zoo, the city, Xcel Energy, and a local geothermal company
  - Expected to reduce emissions by up to 50% and reduce facility operating costs so more resources can be used to enhance programs that serve the community
- After completing the Primates Building project, the zoo hopes to raise nearly \$8M to install geothermal in the visitors center and the main zoo building.



The Primate Building at Como Zoo. Photo by [Museum Technology Source, Inc.](https://www.museumtechnology.com/)

- Congressionally-Directed Project to create a district energy system for four city buildings
- Features Twin Cities-based startup's heat-pump technology, developed at the University of Minnesota, that taps aquifers and uses fewer, shallower wells
  - Replaces steam line that is at end of useful life
  - Expected to reduce operational cost for public building operations and improve reliability and safety for core community services (currently no back-up system)
- System design will allow additional renewable components in the future if desired



Rochester, MN city buildings that will initially be served by the geothermal district energy system. Rendering from [Minnesota House of Representatives](#).

## Mainstream Engineering Corporation

### Phase 2: Advanced Energy Storage Topic

Looking at coupled solar-geothermal storage systems (CSGSS)

- Uses solar-thermal collectors to provide domestic hot water and heat the ground
- Increases heat-pump efficiency
- Provides nearly carbon- and electricity-free hot water
- Will decrease initial cost of ownership for both GHPs and solar-thermal hot water systems, while also reducing monthly electrical bills.





## Darcy Solutions, Inc.

Phase 2: Advanced Energy Storage Topic

\$1.1M

- New, innovative GHP technology to allow for thermal energy storage in shallow reservoirs (advective GHP)
- Changes the way heat is transferred with the shallow subsurface
- AGHP modeled and tested successfully in Phase I
- Phase II to include a larger field test
- Multiwell AGHP system will be tied to a building or series of buildings to provide thermal energy storage and recovery for 912 months (~2 ½ years)



# Heat Pump Manufacturing

- Nine projects selected to receive up to \$169 million to accelerate electric heat pump manufacturing at 15 sites in 13 states
- First awards from DOE's authorization to use the Defense Production Act to increase domestic production of five key clean energy technologies, including ground-source (geothermal) and air-source electric heat pumps.
- Two projects that include geothermal heat pumps:
  - Ice Air, LLC, Spartanburg, SC
  - Hydro Temp Corporation, Pocahontas, AR and Albany, NY

MESC Selectees for Heat Pump Manufacturing



# Heat Pump Manufacturing Funding Opportunity

- **\$63 million** available in second round of funding to accelerate electric heat pump manufacturing
- Part of DOE's authorization to use the Defense Production Act to **increase domestic production of five key clean energy technologies**, including geothermal and air-source electric heat pumps
- Builds on a first round of \$169 million in selections in November 2023, including two **geothermal heat pump** manufacturers
- Concept papers required and due **March 15**
- Full applications due **April 29**.



GHP system at NOAA's Caribou Weather Forecast Office in Maine. Photo courtesy John Porter / NREL pix 12708.

[energy.gov/mesc/office-manufacturing-and-energy-supply-chains](https://energy.gov/mesc/office-manufacturing-and-energy-supply-chains)

# Communities Sparking Investment in Transformative Energy (C-SITE)

- **\$18 million** available in financial awards and technical assistance to advance community identified energy priorities
- Funded by DOE's Office of State and Community Energy Programs' (SCEP) Local Government Energy Program
- Numerous technology areas eligible, including building efficiency and/or electrification, energy infrastructure upgrades, microgrids, renewable energy, resilience hubs, and workforce development
- Applications due **May 31**.



[energy.gov/scep/local-government-energy-program](https://energy.gov/scep/local-government-energy-program)

- **Residential**
  - 30% tax credit for ENERGY STAR-rated GHPs through 2032
- **Commercial:**
  - Investment Tax Credit for renewable energy projects beginning construction before 1/1/25. For geothermal, the base investment tax credit is 6% for the first 10 years, scaling to 5.2% in 2033 and 4.4% in 2034.
  - Credit increases for projects meeting prevailing wage and registered apprenticeship requirements; certain domestic content requirements for steel, iron, and manufactured products; and/or if located in an energy community.



Installing GHP pipes for residential housing in South Carolina. Photo by Belton Tisdale. NREL pix 12372



# Fall 2023 Geothermal Collegiate Competition (GCC)



## Geothermal Collegiate Competition

U.S. DEPARTMENT OF ENERGY

[energy.gov/eere/geothermal/geothermal-collegiate-competition](https://energy.gov/eere/geothermal/geothermal-collegiate-competition)

Fall 2023 winning projects include:

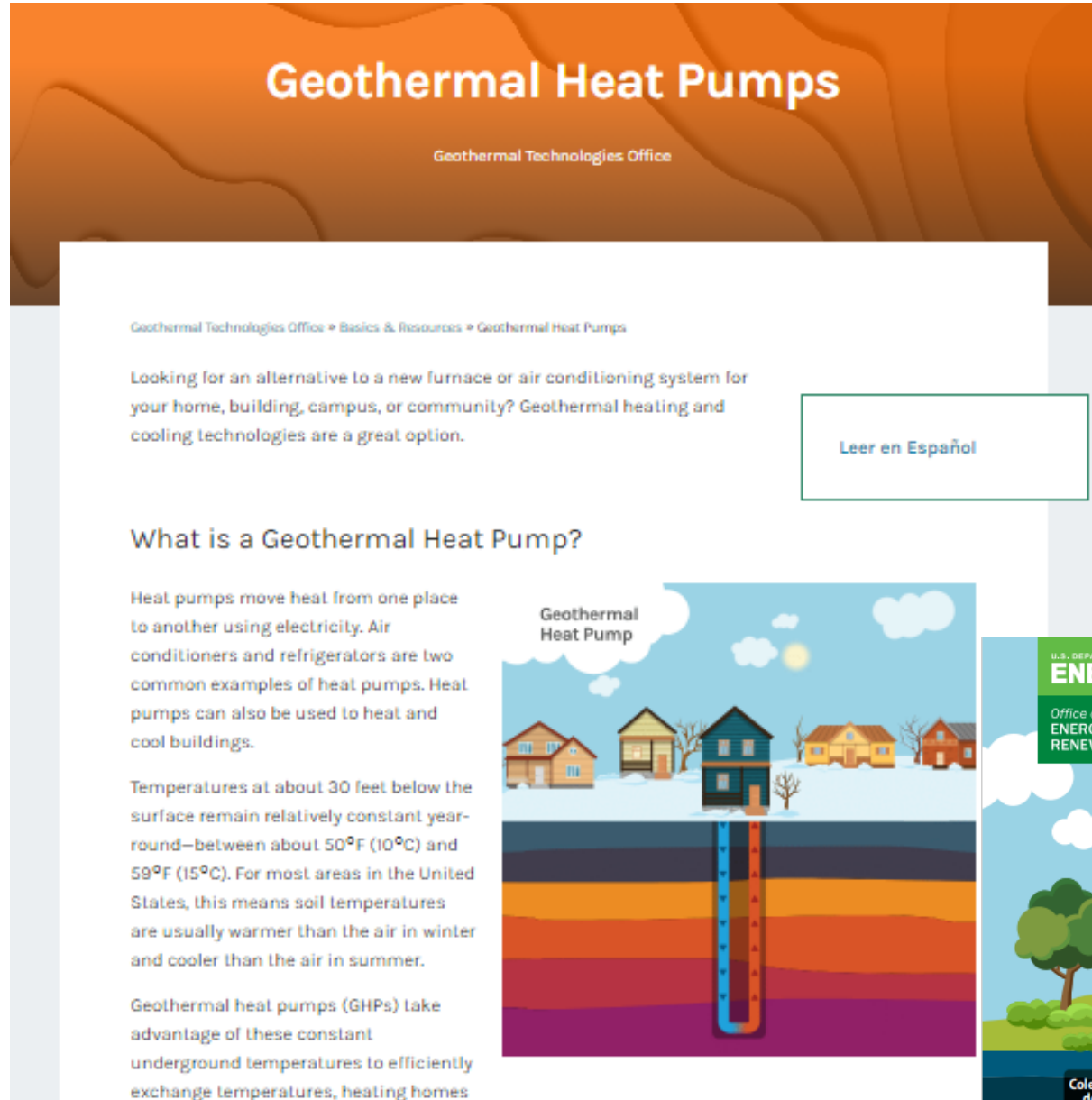
- Ocean-based closed-loop GHP heating and cooling system in Elim, AK (Columbia/Princeton)
- Direct-use system for Osage Nation greenhouse (Univ. of Oklahoma)
- GHP system on a brownfield site to provide heating and cooling for ~2,800 residents (UC San Diego)
- GHP system to meet heating and cooling needs for a university musical and performance arts hub

# GHP and Geothermal Resources!

GTO uses multiple tools and resources to provide education about geothermal energy, communicate funding opportunities, and engage with stakeholders.

- GHP Info Page
- GHP Info Page in Spanish
- GHPs for Consumers Page
- GHPs for Consumers Page in Spanish
- GHP Fact Sheet
- GHP Fact Sheet in Spanish
- *The Drill Down* Newsletter
- Funding Opps Webpage

[geothermal.energy.gov](http://geothermal.energy.gov)



**Geothermal Heat Pumps**  
Geothermal Technologies Office

Geothermal Technologies Office » Basics & Resources » Geothermal Heat Pumps

Looking for an alternative to a new furnace or air conditioning system for your home, building, campus, or community? Geothermal heating and cooling technologies are a great option.

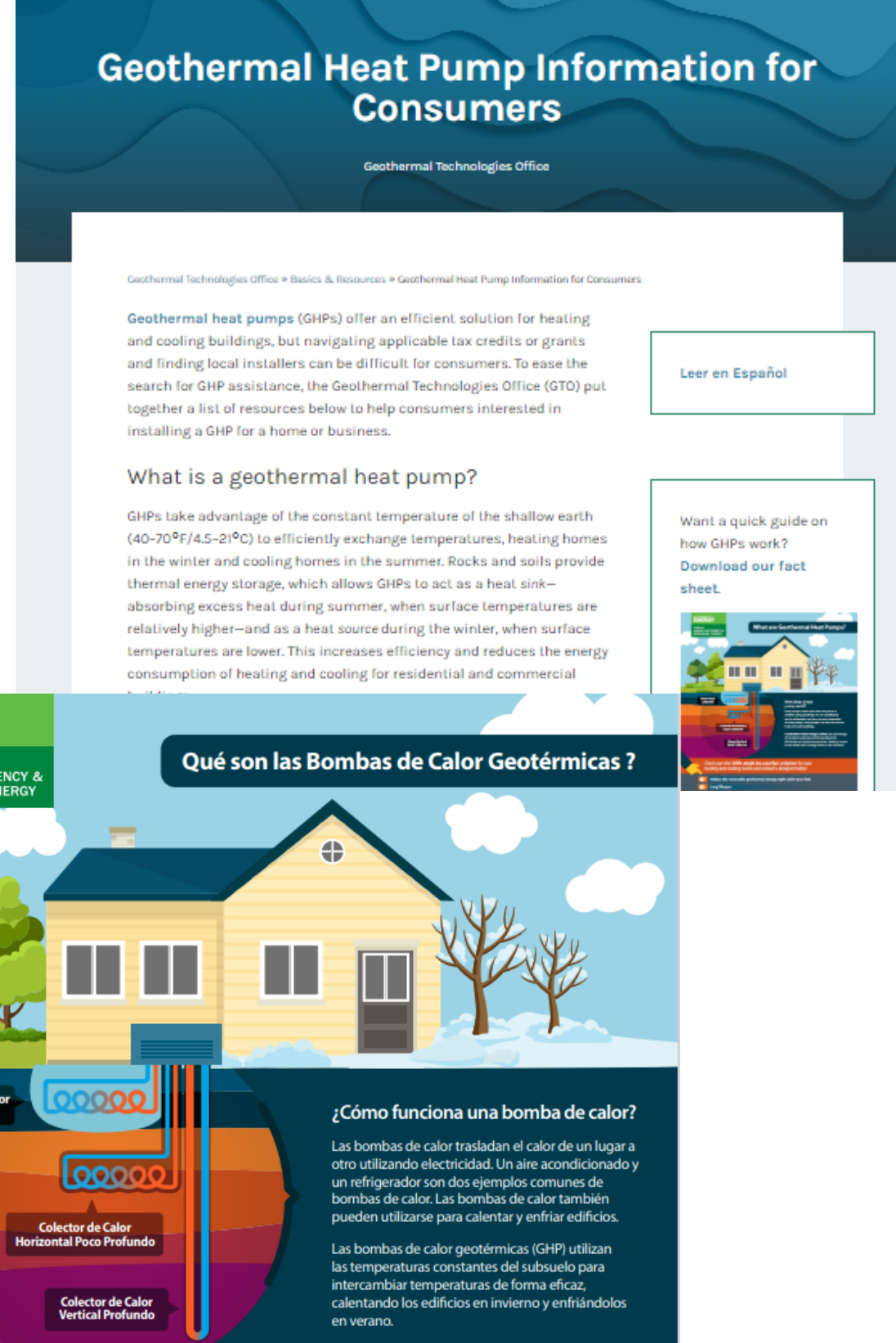
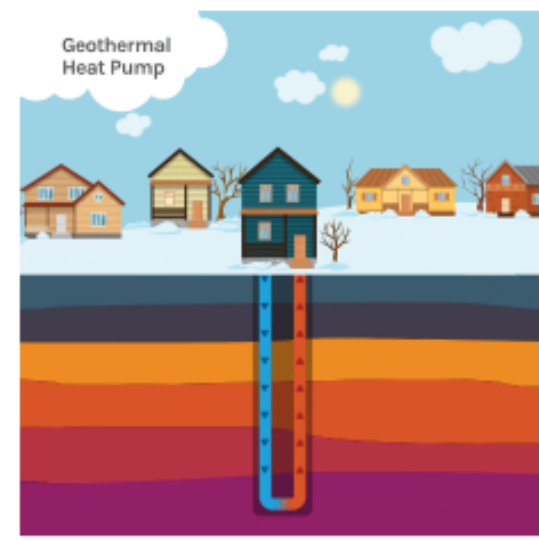
[Leer en Español](#)

### What is a Geothermal Heat Pump?

Heat pumps move heat from one place to another using electricity. Air conditioners and refrigerators are two common examples of heat pumps. Heat pumps can also be used to heat and cool buildings.

Temperatures at about 30 feet below the surface remain relatively constant year-round—between about 50°F (10°C) and 59°F (15°C). For most areas in the United States, this means soil temperatures are usually warmer than the air in winter and cooler than the air in summer.

Geothermal heat pumps (GHPs) take advantage of these constant underground temperatures to efficiently exchange temperatures, heating homes



**Geothermal Heat Pump Information for Consumers**  
Geothermal Technologies Office

Geothermal Technologies Office » Basics & Resources » Geothermal Heat Pump Information for Consumers

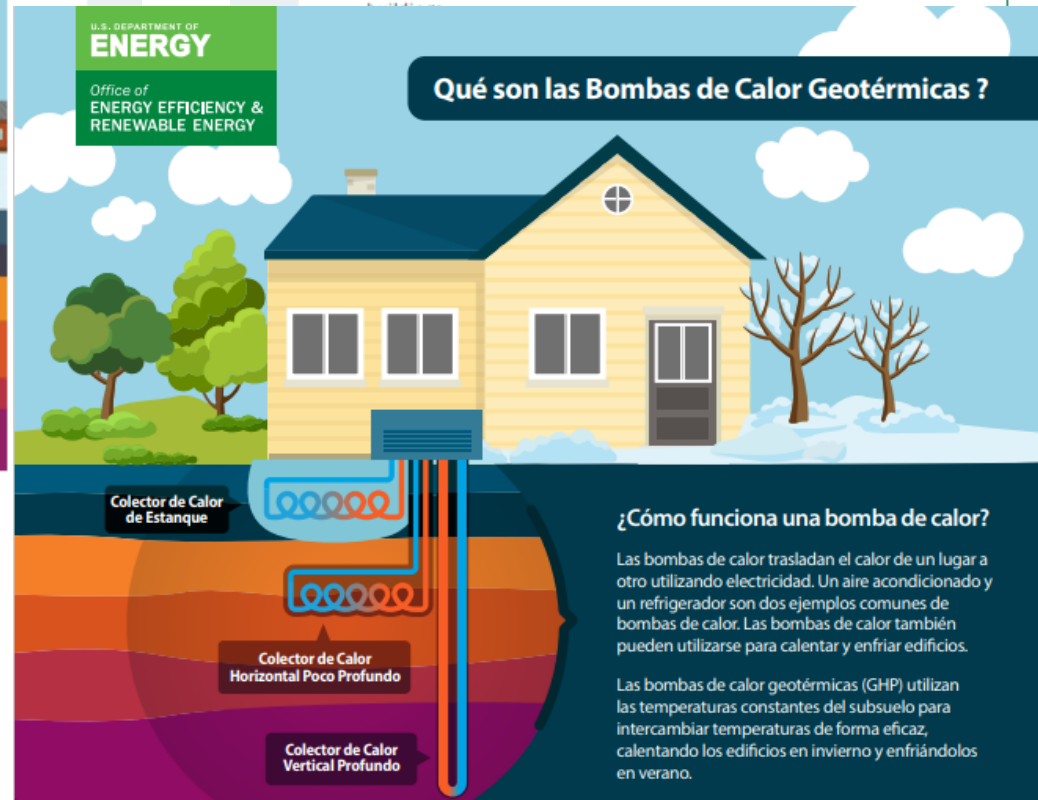
Geothermal heat pumps (GHPs) offer an efficient solution for heating and cooling buildings, but navigating applicable tax credits or grants and finding local installers can be difficult for consumers. To ease the search for GHP assistance, the Geothermal Technologies Office (GTO) put together a list of resources below to help consumers interested in installing a GHP for a home or business.

[Leer en Español](#)

### What is a geothermal heat pump?

GHPs take advantage of the constant temperature of the shallow earth (40-70°F/4.5-21°C) to efficiently exchange temperatures, heating homes in the winter and cooling homes in the summer. Rocks and soils provide thermal energy storage, which allows GHPs to act as a heat sink—absorbing excess heat during summer, when surface temperatures are relatively higher—and as a heat source during the winter, when surface temperatures are lower. This increases efficiency and reduces the energy consumption of heating and cooling for residential and commercial buildings.

Want a quick guide on how GHPs work? [Download our fact sheet.](#)



**U.S. DEPARTMENT OF ENERGY**  
Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

### ¿Qué son las Bombas de Calor Geotérmicas?

### ¿Cómo funciona una bomba de calor?

Las bombas de calor trasladan el calor de un lugar a otro utilizando electricidad. Un aire acondicionado y un refrigerador son dos ejemplos comunes de bombas de calor. Las bombas de calor también pueden utilizarse para calentar y enfriar edificios.

Las bombas de calor geotérmicas (GHP) utilizan las temperaturas constantes del subsuelo para intercambiar temperaturas de forma eficaz, calentando los edificios en invierno y enfriándolos en verano.

# Thank You!



Get the hottest geothermal news from *The Drill Down*, GTO's monthly newsletter!

*Sign up today:*

[geothermal.energy.gov](http://geothermal.energy.gov)

Interested in serving as a **merit reviewer** for GTO RD&D projects?



# Questions?

The **Geothermal Technologies Office (GTO)** works to reduce the cost and risk associated with geothermal development by supporting innovative technologies that address key exploration and operational challenges.

Visit our website at [energy.gov/eere/geothermal](https://energy.gov/eere/geothermal) or by scanning the QR code.





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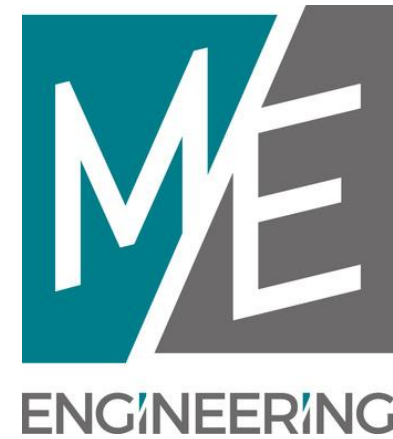
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Climate Control Group

conEdison

CORECHEM Inc.

Credit Human

Eijkelkamp North America

Enertech Global

Groundheat Solar Wind

ME Engineering

NYS Laborers Organizing Fund

ROBCO

Trane Technologies

Versaprofiles

WaterFurnace International

## EXHIBITORS

Air & Water Source

ACES-Energy

Aztech Geothermal

Centennial Plastics, Inc.

CETCO

Dandelion

East West Drilling, Inc.

Energy Catalyst Technologies

Ewbank Geo Testing

F.W. Webb

Geo-Flo Corporation

Geo-Hydro Supply

Geothermal Drilling Solutions LLC

GTD Group

HIGHMARK| Building Efficiency

ICF

IGSHPA/GeoExchange

LaBella Associates

Morris Industries, Inc.

National Compressed Air Canada Ltd

National Grid

NYS DPS

Phoneix Energy Supply

RJ Murray

Rototec LLC

Stark Tech

The Driller Podcast

UA Local 7 Plumbers/Steamfitters

Waterless Geothermal

*Thank  
You!*