

Geothermal Heat Pumps (GHPs):

A Great Fit for New York State's Energy Goals



NY GEOTHERMAL ENERGY ORGANIZATION



Produces the Least GHG Emissions

- Highest % of renewable energy of practical HVAC systems
- Leverages NYS's clean electric grid capacity

Reduces Summer Peak Demand

- Best HVAC option for reducing peak air conditioning demand

Improves Winter Grid Utilization

- Increases base load during non-peak winter periods

Contributes to Fuel Diversity

- Reducing State's dependence on fossil fuels' price volatility

Takes Shortest Path to Net-Zero Energy

- Most efficient HVAC → powered by renewable solar PV

Utilizes Energy from the Sun

- A renewable solar technology; accesses solar energy stored in the ground
- Solves the renewable storage problem - accessible 24·7·365

Applicable to All Building Types

- Can be installed in practically *any building* in NYS

Relies on NYS Labor: Creates & Retains Jobs

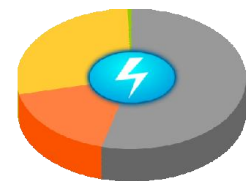
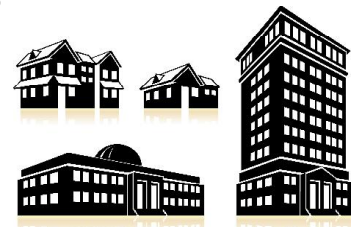
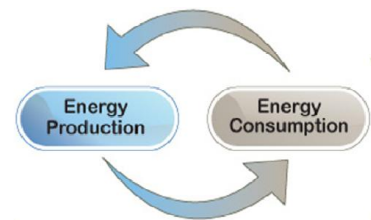
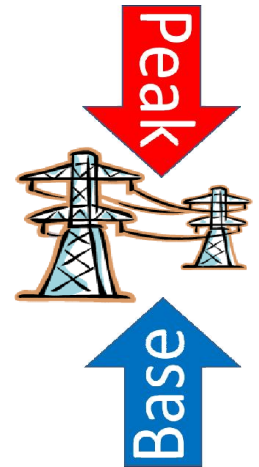
- Straightforward training for *any* mechanical contractor
- Great work for local drillers and excavators

Cuts Energy Bills in Half for Many NYS Buildings

- 40% to 50% savings on AC for all buildings
- Lowest operating costs for heating

Works Extremely Well in NYS Climate

- *No* backup heat required
- Combines space heating , AC & hot water



Heating and Cooling

New York Geothermal Energy Organization, Inc.

From the **Sun** to the **Earth** to **You**

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