

Geothermal Applications for the World



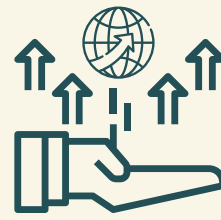
Clean

Always on

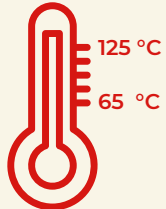
Sustainable



Widely Available

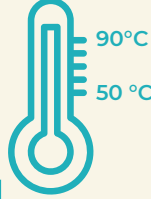


Renewable



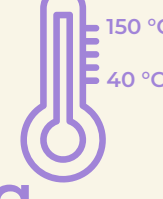
Agricultural Drying

- Electric power is used to drive fans and pumps
- Represents about 0.5% of the total geothermal energy use at the beginning of 2000
- Reduces food waste



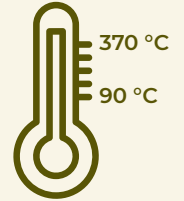
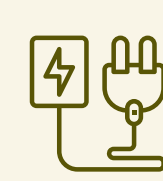
Cooking

- Uses geothermal water from natural pools and hot springs for cooking
- Bakes bread in the hot springs of Iceland
- Cooks fresh-caught trout in the geothermal hot springs in Yellowstone



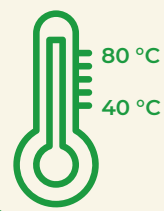
Space Heating

- Highly efficient system
- Saves up to 70% on heating, cooling, and hot water
- Installation of the residential heat pumps only about 10 feet into the ground



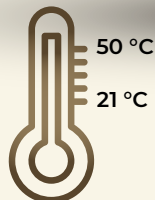
Electricity Generation

- Uses heat from deep inside the earth to generate steam to make electricity
- Supplies USA with 10 % of its electricity by 2050
- About 27 countries generated a total of about 83 billion kWh of electricity from geothermal energy in 2018



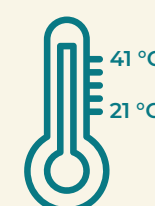
Greenhouse Heating

- Produce grown year-round
- Increases food security
- Reduces price volatility



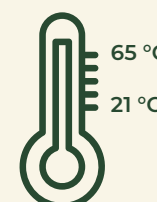
Snow Melting

- Heats pavement to melt snow during the winter
- Reduces the cost of manual snow mitigation



Bathing and Swimming

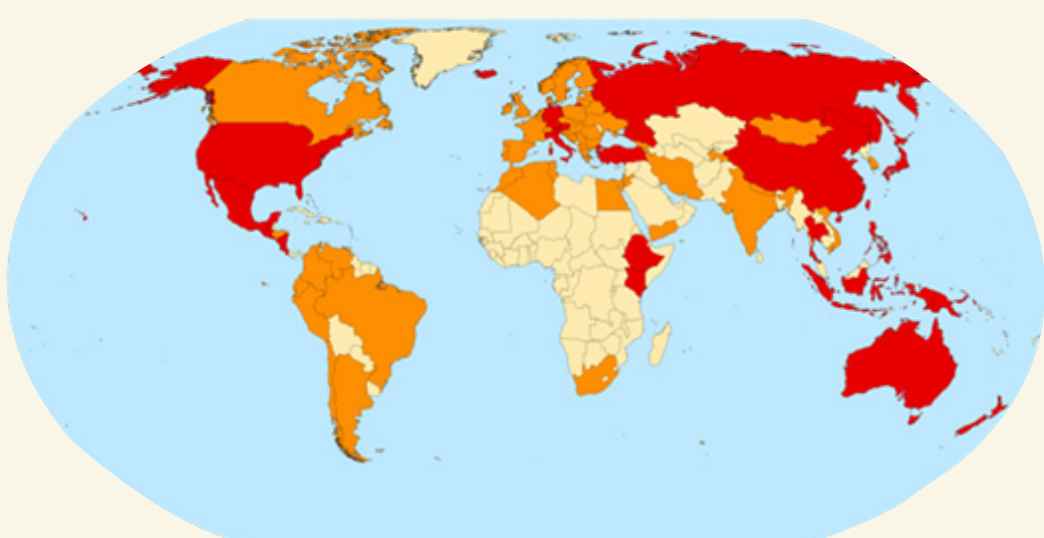
- Promotes ecotourism
- Provides therapeutic benefits



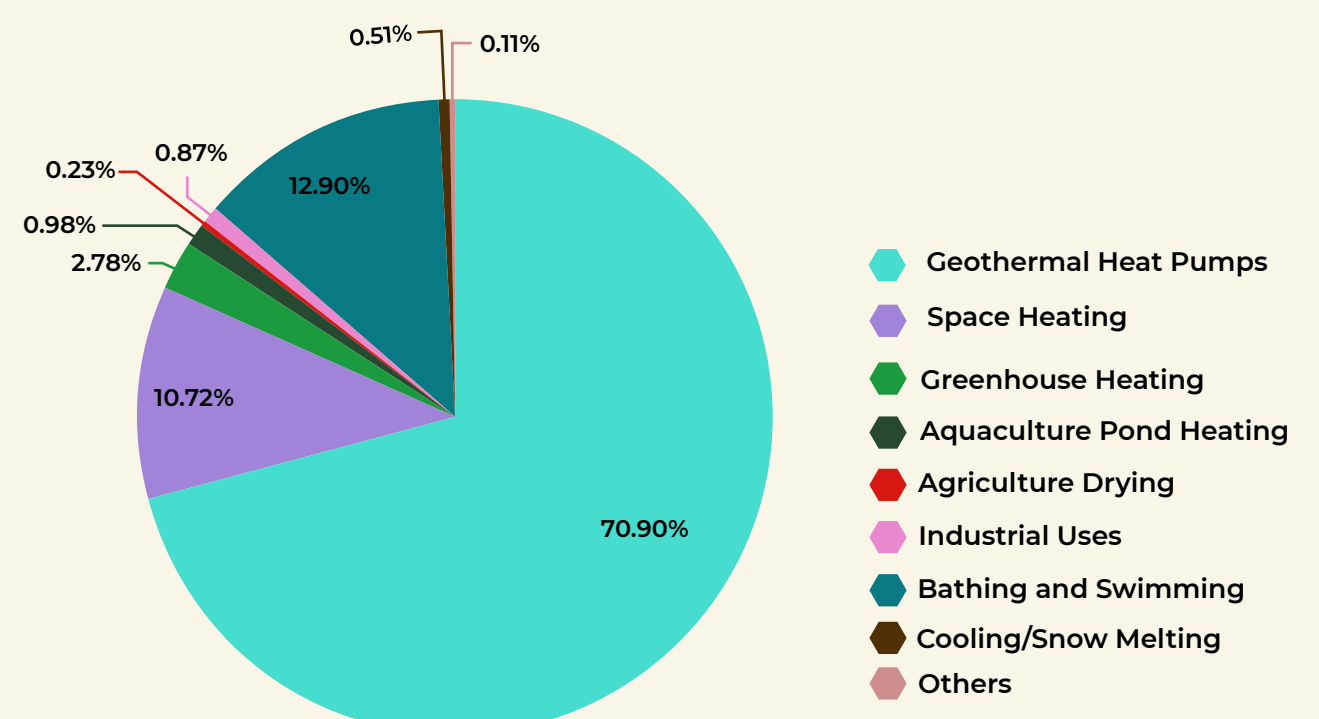
Aquaculture Pond Heating

- Helps meet global seafood demand
- Keeps the natural ecosystem in balance

Global Geothermal Use in 2010



■ Power Generation
■ Direct use / Geothermal Heat Pumps



Geothermal Direct Use Capacity in 2015