

Geothermal Technologies Program

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Geothermal Maps

The Geothermal Technologies Program (GTP) carries out R&D and demonstration efforts to deploy 12 GWe of clean geothermal energy by 2020 and expand geothermal into new U.S. regions.

Locating and developing resources is an important part of that mission. GTP works with national laboratories to develop maps and data that identify renewable, geothermal resources, possible locations for implementation of various geothermal technologies, and actual and potential geothermal power generation sites.

The maps below were developed by National Laboratories, universities and other organizations.

Maps by Energy Type or Measurement

[Direct-use projects](#) in the United States – Geo-Heat Center, Oregon Institute of Technology

Resource potential for United States, including [identified hydrothermal sites and favorability of deep enhanced geothermal systems](#) (EGS), produced by National Renewable Energy Laboratory in conjunction with GTP

[Temperature and depth of U.S.](#) geothermal resources – Google.org, using Google Earth

[Temperature at depth](#) with sediment thickness for continental United States, produced by Idaho National Laboratory in conjunction with GTP with data from Southern Methodist University Geothermal Laboratory

[Thermal springs](#) in the United States – National Geophysical Data Center

Maps by Location

U.S. and North America

[Current and planned power generation capacity by state](#), including projects funded by American Recovery and Reinvestment Act (ARRA) – National Renewable Energy Laboratory (NREL) in conjunction with GTP

[National Geologic Map Database](#) – U.S. Geological Survey

[U.S. geothermal resources by state](#) – Google.org, using Google Earth

[North America geothermal map, 2004](#), with contours and industry and research data – Southern Methodist University

States and Regions

[California oil, gas and geothermal fields](#) – State of California Department of Conservation

[Great Basin interactive map](#) – University of Nevada - Reno, Great Basin Center for Geothermal Energy

[Oregon geothermal information layer map](#) – Oregon Department of Geology and Mineral Industries

Geothermal resources on [Tribal Lands](#) – NREL and GTP

[Western states geothermal resources](#) produced by Idaho National Laboratory in conjunction with GTP

Global

Global geothermal energy in [gigawatt hours by country](#) – Geothermal Energy Education Office



Resource potential for United States, including [identified hydrothermal sites](#) and [favorability of deep enhanced geothermal systems](#) (EGS), produced by National Renewable Energy Laboratory in conjunction with GTP.