



Doe geothermal earthshot

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U.S. Department of Energy (DOE) announced \$150 million for research into the crosscutting foundational science for multiple Energy Earthshots. This funding, provided by the Office of Science, will support fundamental research to accelerate breakthroughs in support of the Energy Earthshots Initiative.

The awards supported by this funding opportunity will bring together small teams focused on the crosscutting scientific challenges addressing multiple Energy Earthshots. Research will support basic science to seed innovations or to provide the scientific understanding to support existing technology development pathways for the needed portfolio of Energy Earthshot solutions.

Total combined planned funding is up to \$150 million over three years, with \$50 million in Fiscal Year 2023 dollars and outyear funding contingent on congressional appropriations. The funding anticipated for each award is \$500K to \$2M per year.

The Funding Opportunity Announcement, sponsored by the Advanced Scientific Computing Research, Basic Energy Sciences, and Biological and Environmental Research programs within the Department's Office of Science, can be found [here](#).

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The Environmental System Science program is sponsored by the Earth and Environmental Systems Sciences Division of the U.S. Department of Energy's Biological and Environmental Research Program.

Only a small portion of the geothermal energy--the "heat beneath our feet" --that exists in the United States is accessible with current technology. However, research and innovation to advance enhanced geothermal systems (EGS), which create humanmade reservoirs to access energy that was previously stuck below ground, can unlock these resources and put new, clean, flexible electricity on the grid.

The Enhanced Geothermal Shot is a departmentwide effort to dramatically reduce the cost of EGS--by 90%, to \$45 per megawatt hour by 2035. Investments in EGS can unlock affordable clean energy for over 65 million American homes and exponentially increase opportunities for geothermal heating and cooling solutions nationwide.

The geothermal industry has the potential to become a powerhouse of U.S. economic growth, with particular



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benefits for rural communities. In addition, the geothermal and oil and gas industries share many similarities, presenting an opportunity to transition a skilled workforce as well as best practices from fossil fuels to clean energy, and help communities historically impacted by fossil fuel production and use transition to clean energy.

Achieving the Enhanced Geothermal Shot will go a long way toward reaching the goals of 100% carbon-pollution-free electricity by 2035 and net-zero emissions across the U.S. economy by 2050.

The climate crisis calls for a different kind of moonshot. Energy Earthshots will accelerate breakthroughs of more abundant, affordable, and reliable clean energy solutions within the decade. They will drive the major innovation breakthroughs that we know we must achieve to solve the climate crisis, reach our 2050 net-zero carbon goals, and create the jobs of the new clean energy economy. The Energy Earthshots target the remaining solution points of the most challenging technical problems across our energy economy.

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