

ENACTED PROGRAMS CHAMPIONED BY CHAIRMAN MANCHIN TO SUPPORT GEOTHERMAL PROJECTS IN WEST VIRGINIA

The Inflation Reduction Act of 2022

» ***Incentivizes construction of new geothermal projects and production.***

- ***Geothermal power plants are eligible for either:***
 - A production tax credit (PTC) for clean electricity at \$25 per megawatt-hour for the first 10 years of operation of the facility, or
 - An investment tax credit (ITC) for clean electricity equal to 30 percent of the investment in a new geothermal facility.
 - These tax credits include a 10-percentage point bonus for facilities sited in certain energy communities, including those that have been home to coal plants.
- ***Geothermal heat pumps are eligible for:***
 - An investment tax credit (ITC) for clean electricity equal to 30 percent of the investment of the installation.

» ***Manufacturers of geothermal technologies like geothermal drills are eligible to apply to DOE for the 48C advanced energy manufacturing credit.*** This credit includes a \$4 billion carve-out for use exclusively in communities where coal plants or coal mines have closed.

» ***Expands DOE Loan Guarantees.*** Up to \$40 billion in Department of Energy Title 17 Loan Guarantee Program guarantees are unlocked for large-scale energy projects that use innovative technology to reduce, avoid, or sequester greenhouse gas emissions, including for geothermal projects.

Infrastructure, Investment, and Jobs Act of 2021

» ***Manufacturing opportunities in coal communities.*** Provided \$750 million in DOE grants available for small- and medium-sized businesses to manufacture clean energy technologies in coal communities.

» ***Geothermal Energy Demonstration Project.*** Provided \$84 million in funding for an enhanced geothermal systems pilot demonstration in which DOE is authorized to support four competitively selected projects.

» ***Clean Energy on Mine Lands.*** Authorized \$500 million for clean energy projects, including geothermal projects, on current and former mine land to demonstrate the technical and economic viability of those projects.

Energy Act of 2020

» ***Establishes several programs to support research, development, and demonstration of geothermal technologies.*** Reauthorized geothermal energy research and development programs at the Department of Energy. It also establishes a program to utilize DOE's computing and modeling capabilities to better understand geothermal resources, expands the definition of renewable energy to include thermal energy, and directs the U.S. Geological Survey to update its geothermal resource assessments.

» ***Geothermal on Public Lands.*** Required the Secretary of the Interior to set national goals for renewable energy—including geothermal energy—production on Federal lands. It also allowed noncompetitive leasing for geothermal energy on Federal lands if coproduced from an existing oil or gas well.