

Geothermal Energy: Solutions for a Zero-Emissions Sustainable Energy Future

Lauren Boyd

U.S. Department of Energy, Geothermal Technologies Office
Thursday July 8, 2021, 9 a.m. Central Time



Lauren Boyd, Program Manager of the Enhanced Geothermal Systems (EGS) program at the U.S. Department of Energy, Geothermal Technologies Office, will speak on Thursday, July 8, 2021, at 9:00 a.m. Central Time.

The topic is “Geothermal Energy: Solutions for a Zero-Emissions Sustainable Energy Future.”

Abstract

Increasing the deployment of carbon-free, flexible geothermal energy in both the electric and non-electric sectors will help reach a carbon pollution-free electric grid by 2035 and achieve a net-zero economy by 2050. The Geothermal Technologies Office (GTO) funds research, development, demonstration, and deployment (RDD&D) in conventional Hydrothermal, Low Temperature, and Enhanced Geothermal Systems (EGS) to address technology barriers that industry may not have the technical capabilities or in-house knowledge to conduct. The mission of the GTO is to drive increased utilization of geothermal energy through research and development in innovative technologies that enhance exploration and production.

Biography

Lauren W. Boyd is the Program Manager of the Enhanced Geothermal Systems (EGS) program at the U.S. Department of Energy, Geothermal Technologies Office. In this role, Lauren is responsible for all activities related to EGS, including strategic planning, budget formulation, and project execution of a broad RD&D portfolio. This portfolio includes EGS demonstration projects, research and development projects, and new technology initiatives, such as the DOE’s Frontier Observatory for Research in Geothermal Energy (FORGE), which focuses on EGS validation, optimization, and replicability at scale. Lauren also leads the Department’s international collaborations surrounding geothermal energy. Lauren holds a Master’s of Science in Geology from University of North Carolina at Chapel Hill and a bachelor of arts in Geology from Vassar College.