

# Advancing Geothermal Energy

## Committee on Earth Resources Fall Meeting



**NOVEMBER 20, 2024**

<https://nasem.zoom.us/j/93489360982>

### Description

Geothermal energy is a promising source of global 24/7, carbon-free, affordable power and heat, but despite this and its ability to produce significantly more power from a smaller footprint than many existing renewable energy technologies, barriers to widespread geothermal deployment still remain. Advancing geothermal energy involves addressing technical, economic, and regulatory challenges to fully leverage its broad range of capabilities. This public meeting will bring together experts to discuss these challenges and future opportunities to advance these efforts.

#### 11:00 am ET Introduction

David Spears, CER Chair

#### 11:15 am Current State of Geothermal Energy (25 min presentation)

Rita Esuru Okoroafor, CER member

- Overview conventional, EGS, AGS, direct use, heating/cooling,
- Comparison with other renewable energy sources

### RECENT AND FUTURE TECHNOLOGICAL INNOVATIONS

\* Rita Esuru Okoroafor moderates

#### 11:40 pm Conventional Geothermal (8 min)

Paul Thomsen, Ormat Technologies, Inc.

#### 11:50 am Enhanced Geothermal Systems (8 min)

Greg Leveille, ConocoPhillips

#### 12:00 pm Advanced Geothermal Systems (8 min)

Jeanine Vany, Eavor

#### 12:10 pm Direct Use (8 min)

Jeff Tester, Cornell

**12:20 pm**      **Super Hot Rock (8 min)**

Terra Rogers, CATF

**12:30 pm**      **Heating and Cooling (8 min)**

Kathy Hannun, Dandelion

**12:40 pm**      **Panel Discussion**

- Needed R&D advances across all areas of geothermal
- Technologies on the horizon (e.g., mineral resources in brines, hybrid)

~~~~~**1:30 pm BREAK**~~~~~

## **POLICY, ECONOMIC, AND SOCIAL CONSIDERATIONS**

\*Sarah Jewett moderates

**1:45 pm**      **Liftoff report (12 min)**

Michael O'Connor, Clean Energy Development, DOE

**2:00 pm**      **Geothermal Technologies Office: Current Strategy and Future Directions (12 min)**

Alex Prisjatschew, DOE-GTO

**2:15 pm**      **Recent policy developments (12 min)**

Katrina McLaughlin, WRI

**2:30 pm**      **Stakeholder engagement (12 min)**

Christopher Katis, Utah FORGE

**2:45 pm**      **Panel Discussion**

**3:30 pm**      **Adjourn**