



GEO THERMAL RISING

**ENERGIZING OUR
RENEWABLE FUTURE**

Geothermal Rising is the largest and oldest geothermal membership organization, advancing geothermal energy and connecting the global geothermal community since 1972.

**IMPERIAL VALLEY ECONOMIC
& ENERGY SUMMIT
JUNE 11TH, 2025**





MEET THE SPEAKER

Amelia Letvin

State & Local Community Engagement
Manager

amelia@geothermal.org

- Builds strong relationships with state and local government and community partners
- Leads outreach efforts to support local initiatives and programs
- Connects communities with resources, information, and opportunities





TABLE OF CONTENTS

1

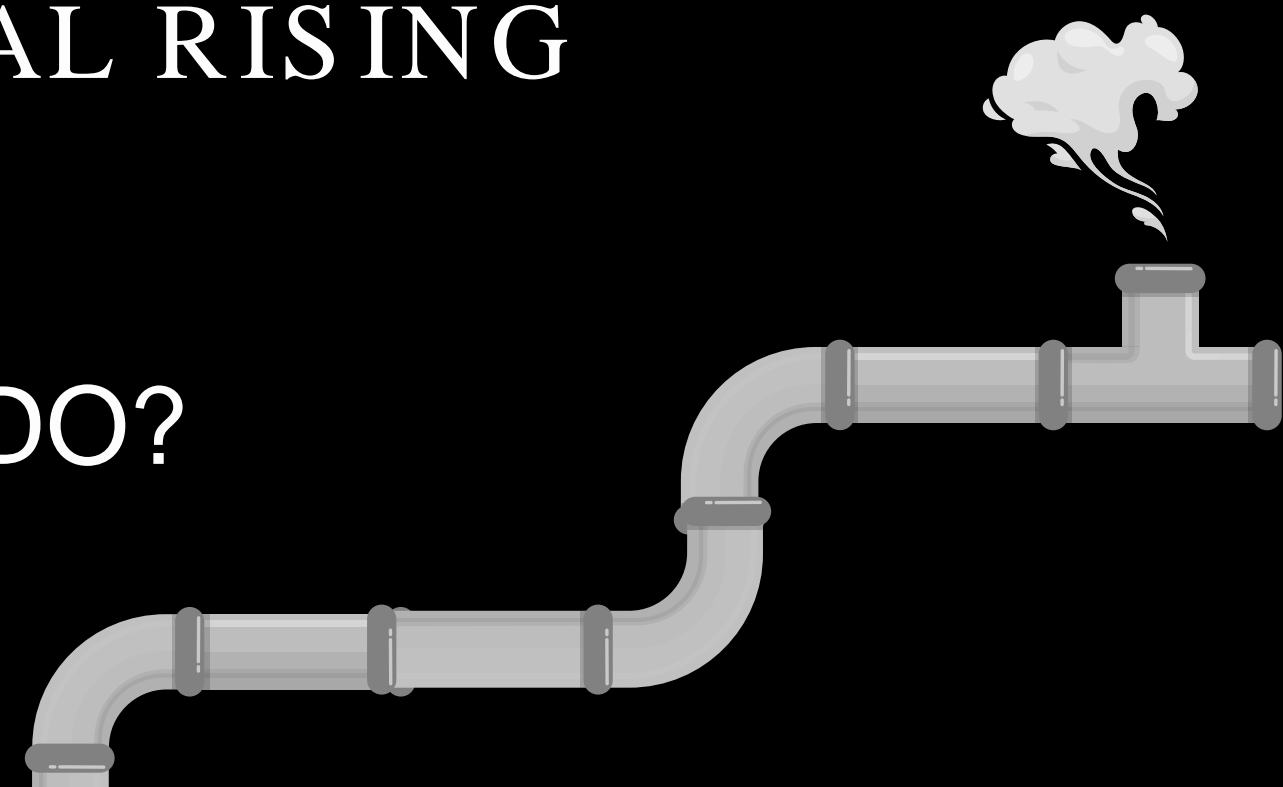
GEOHERMAL OVERVIEW

2

INTRODUCTION TO GEOHERMAL RISING

3

WHAT DOES GEOHERMAL RISING DO?





WHAT IS GEOTHERMAL ENERGY

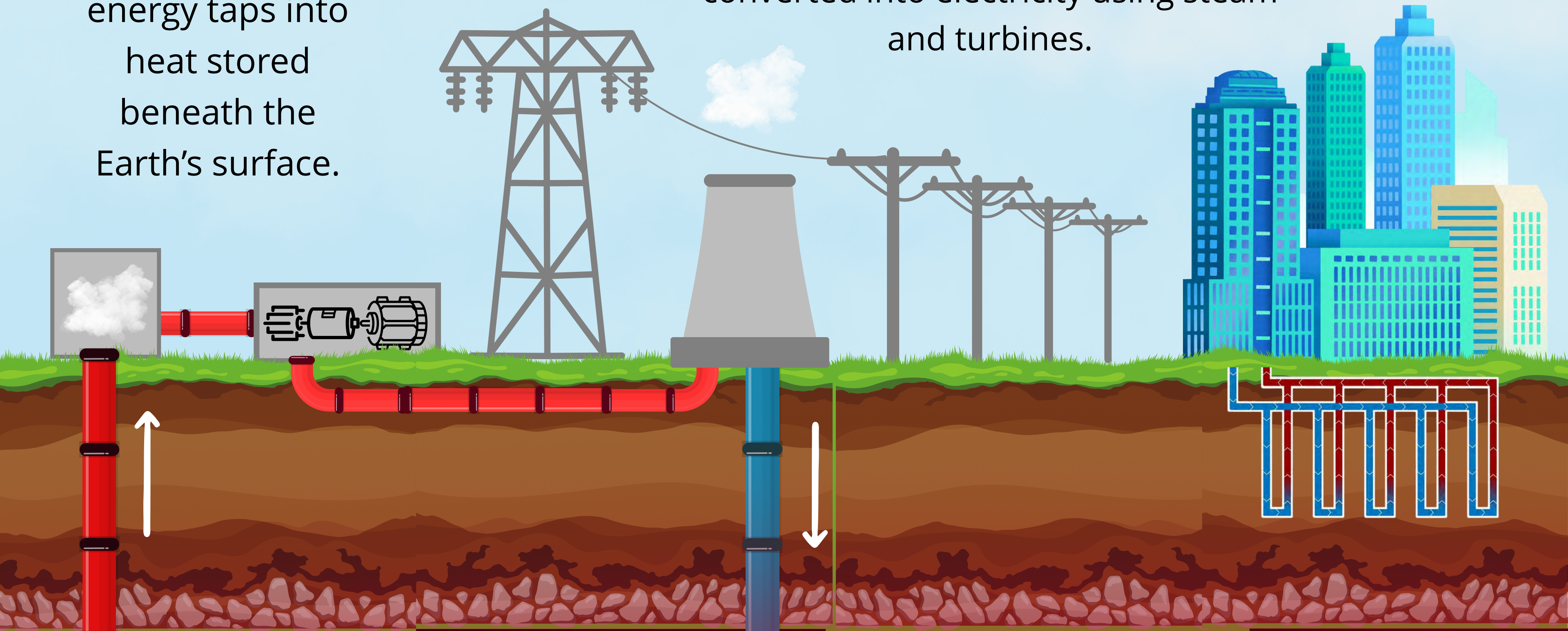
- Earth's Natural Heat
- Reliable & Renewable
- Versatile Applications
- Sustainable Solution



EARTH'S NATURAL HEAT

Geothermal energy taps into heat stored beneath the Earth's surface.

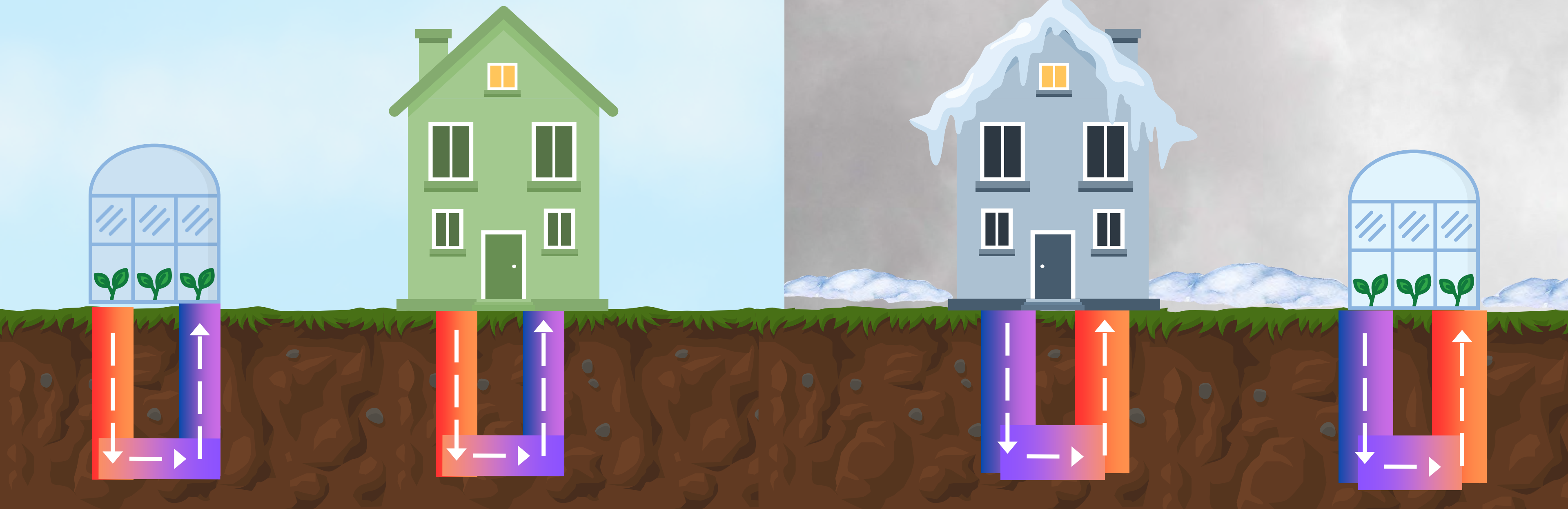
It can be used directly for heating or converted into electricity using steam and turbines.



RELIABLE & RENEWABLE

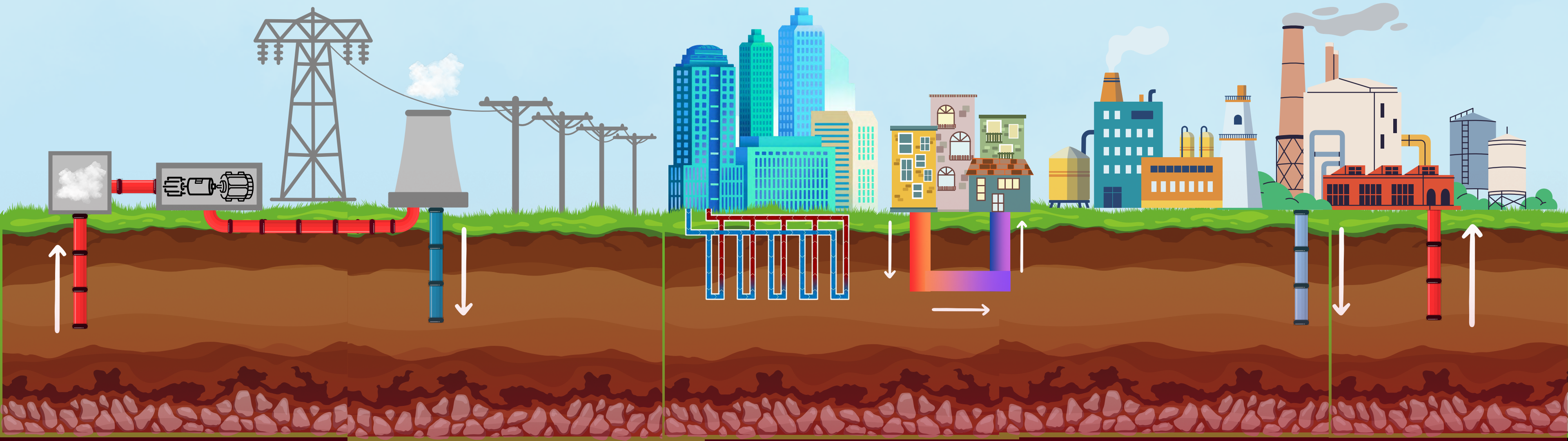
Geothermal provides consistent energy 24/7, unaffected by weather or time of day, making it a stable foundation for a clean energy grid.

Its underground source ensures long-term, low-emission energy generation. This naturally replenished heat is available everywhere.



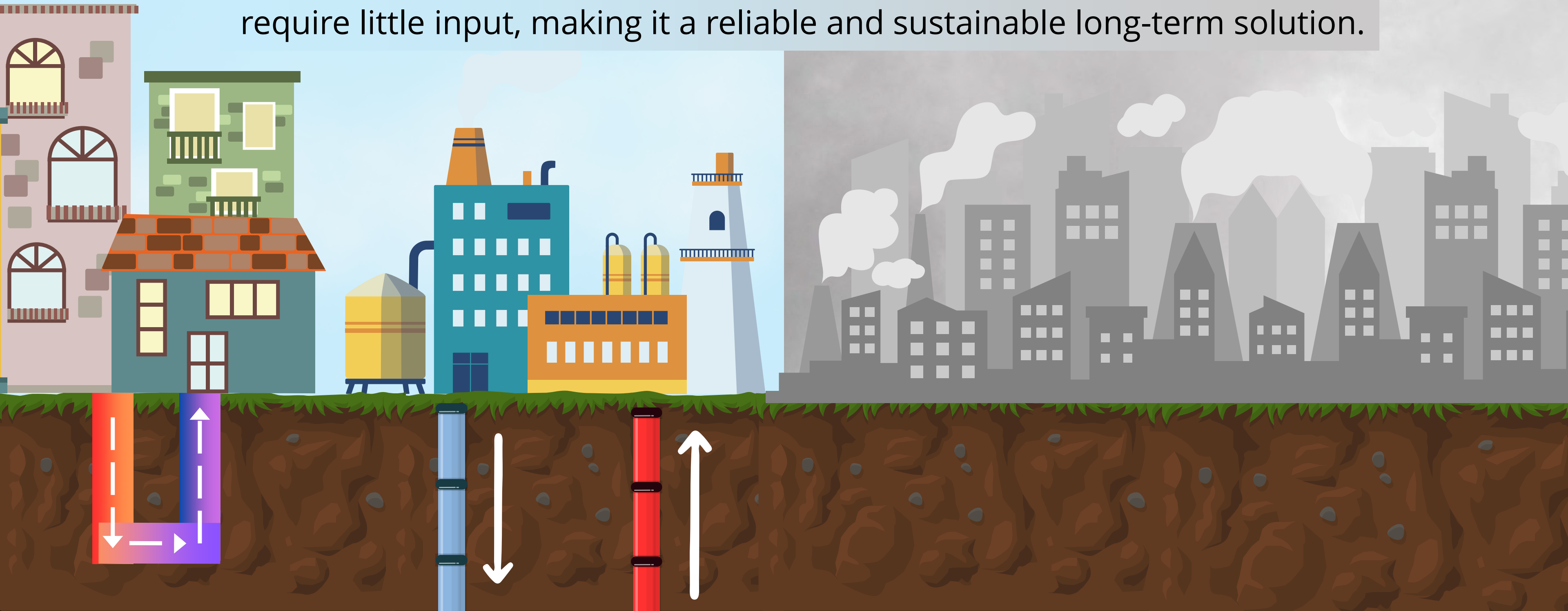
VERSATILE APPLICATIONS

Geothermal energy is incredibly adaptable, it can generate electricity, heat and cool homes and buildings, and support industrial processes. From small-scale residential systems to large geothermal power plants, it offers flexible solutions for a wide range of energy needs.



SUSTAINABLE SOLUTION

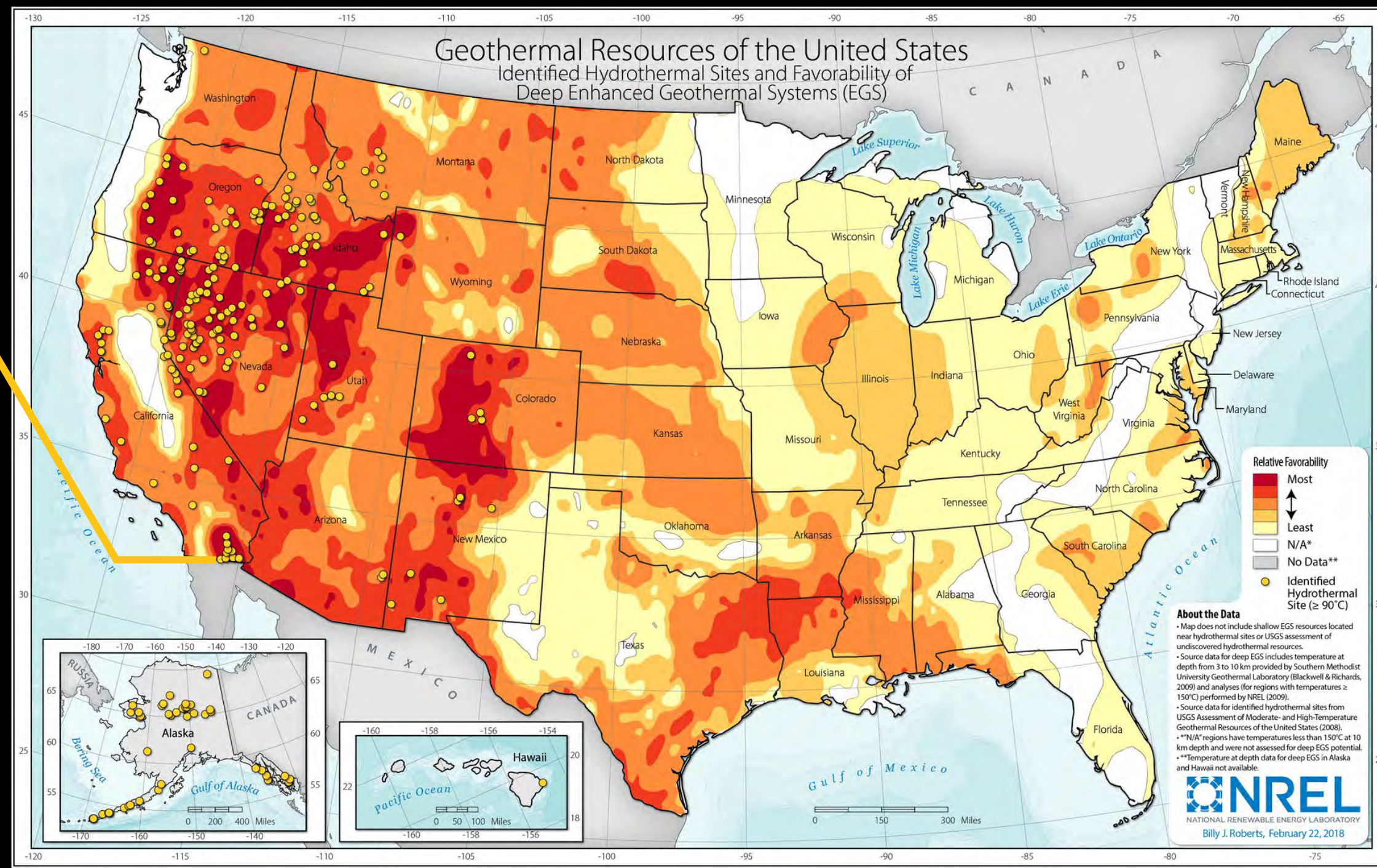
Geothermal is a clean, low-emission energy source that reduces greenhouse gases and lessens our dependence on fossil fuels. Once installed, systems require little input, making it a reliable and sustainable long-term solution.

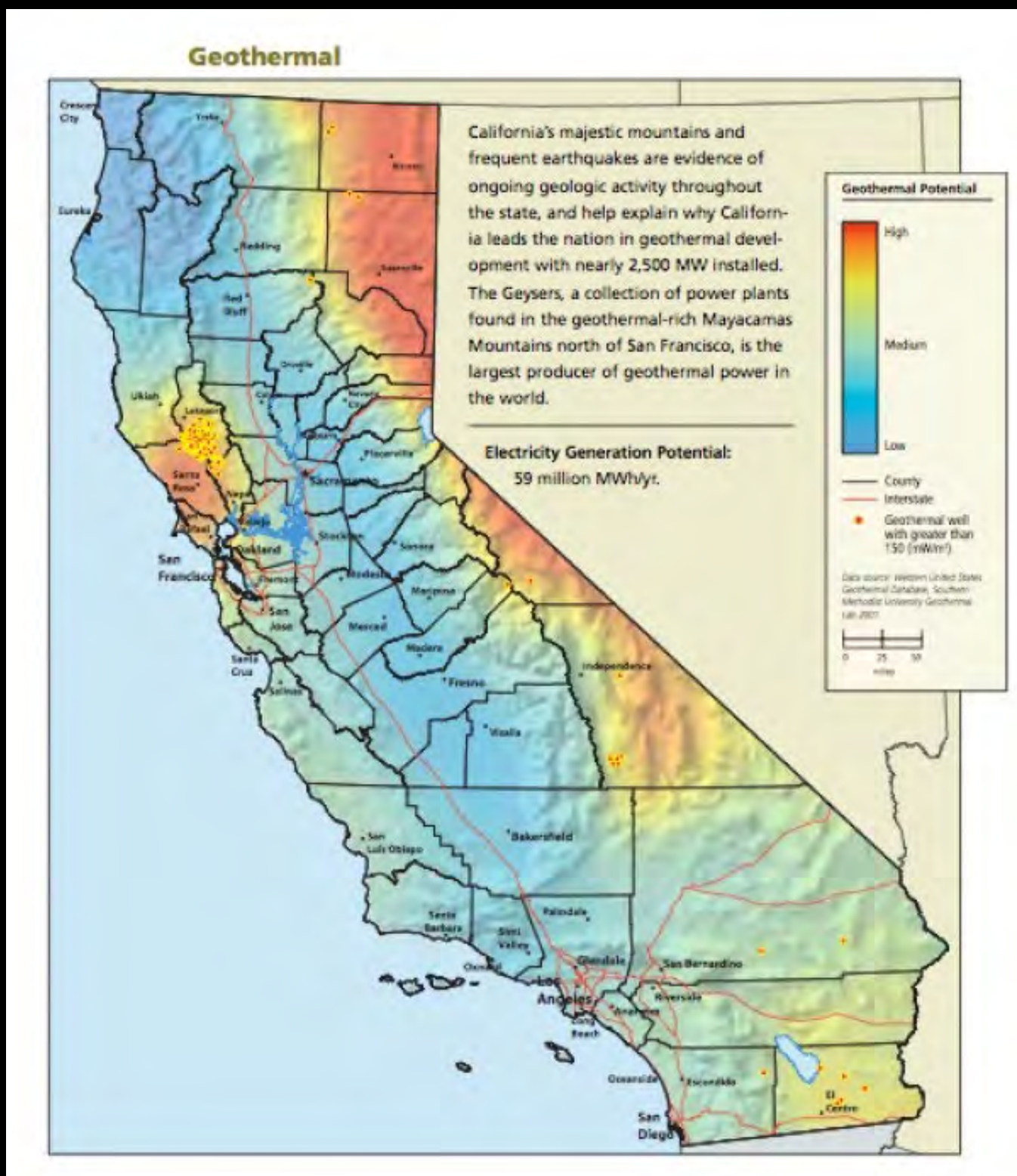


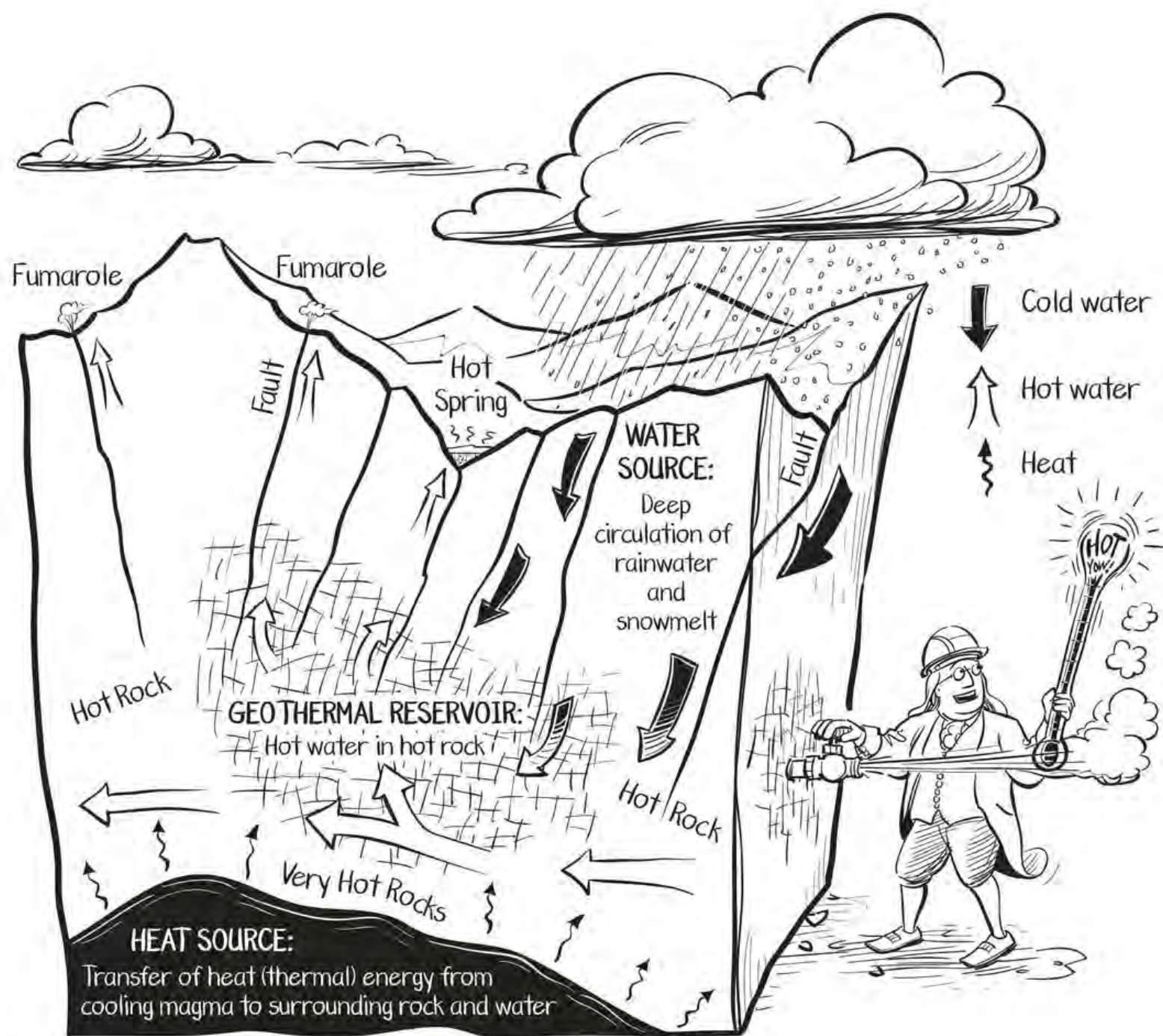


GEOHERMAL POTENTIAL

- Existing plants and hydrothermal systems
- Structural trends of each region
- EGS potential for areas without fractures







A geothermal reservoir is a large underground area of hot permeable rock saturated with superheated water.

FRACTURES ALLOW HOT BRINE TO CIRCULATE

- Fault zones allow for circulating fluids to pick up heat and dissolved minerals
- Modeling the reservoir aids in fault surface mapping, which are good well targets
- Recharge from surface waters and reinjection of pumped fluids



TYPES OF POWER PLANTS



Dry Steam Plants

Highest-temp
geothermal ($>250^{\circ}\text{C}$)

Only three fields in the
world are dry steam.

First type of geothermal
power plant



Flash Steam Plants

High-temp geothermal
($>180^{\circ}\text{C}$)

Steam separated from
hot water drives a
turbine

Most widely used system



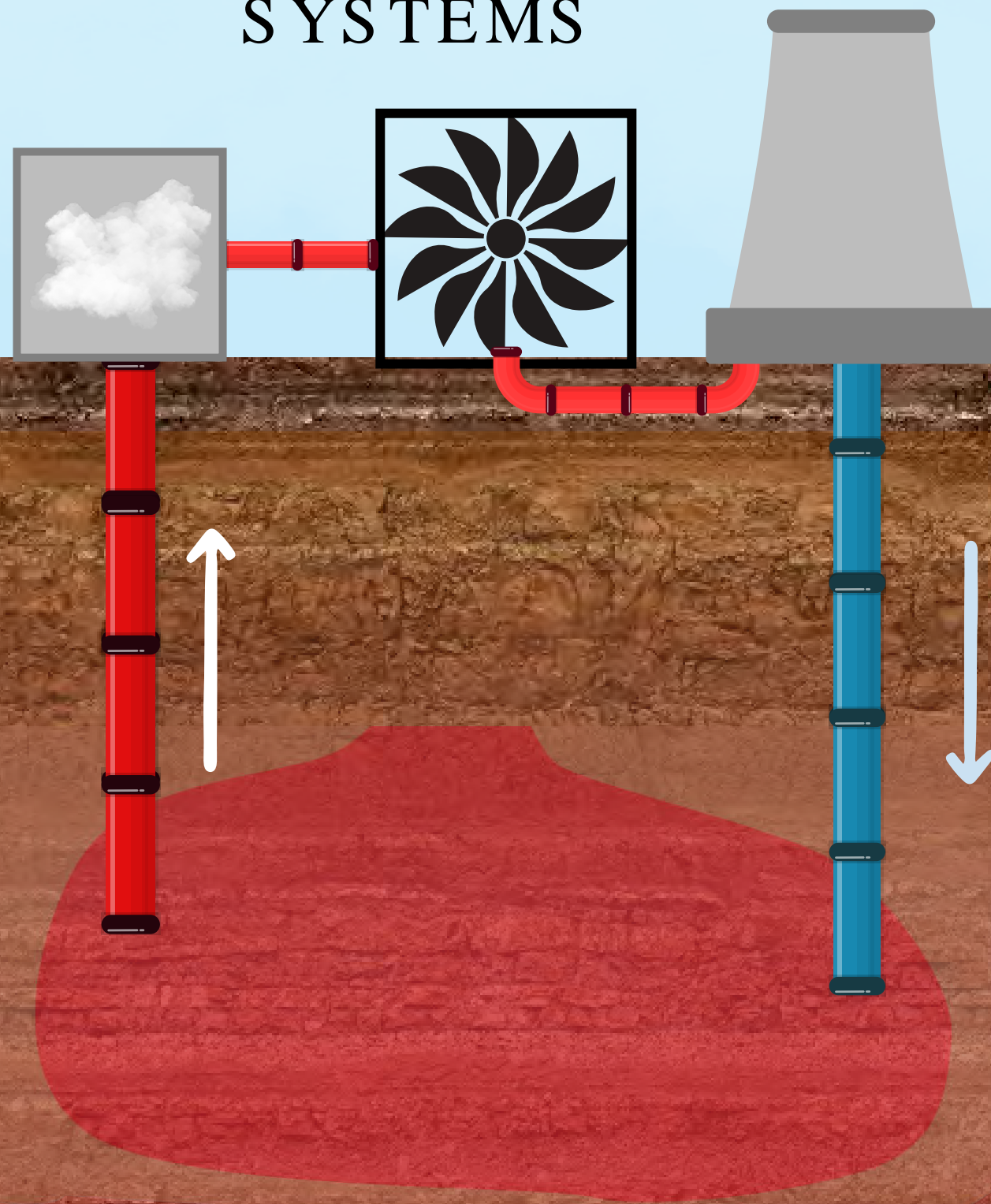
Binary Cycle (ORC)

Moderate temp ($100\text{--}180^{\circ}\text{C}$), liquid-
dominated

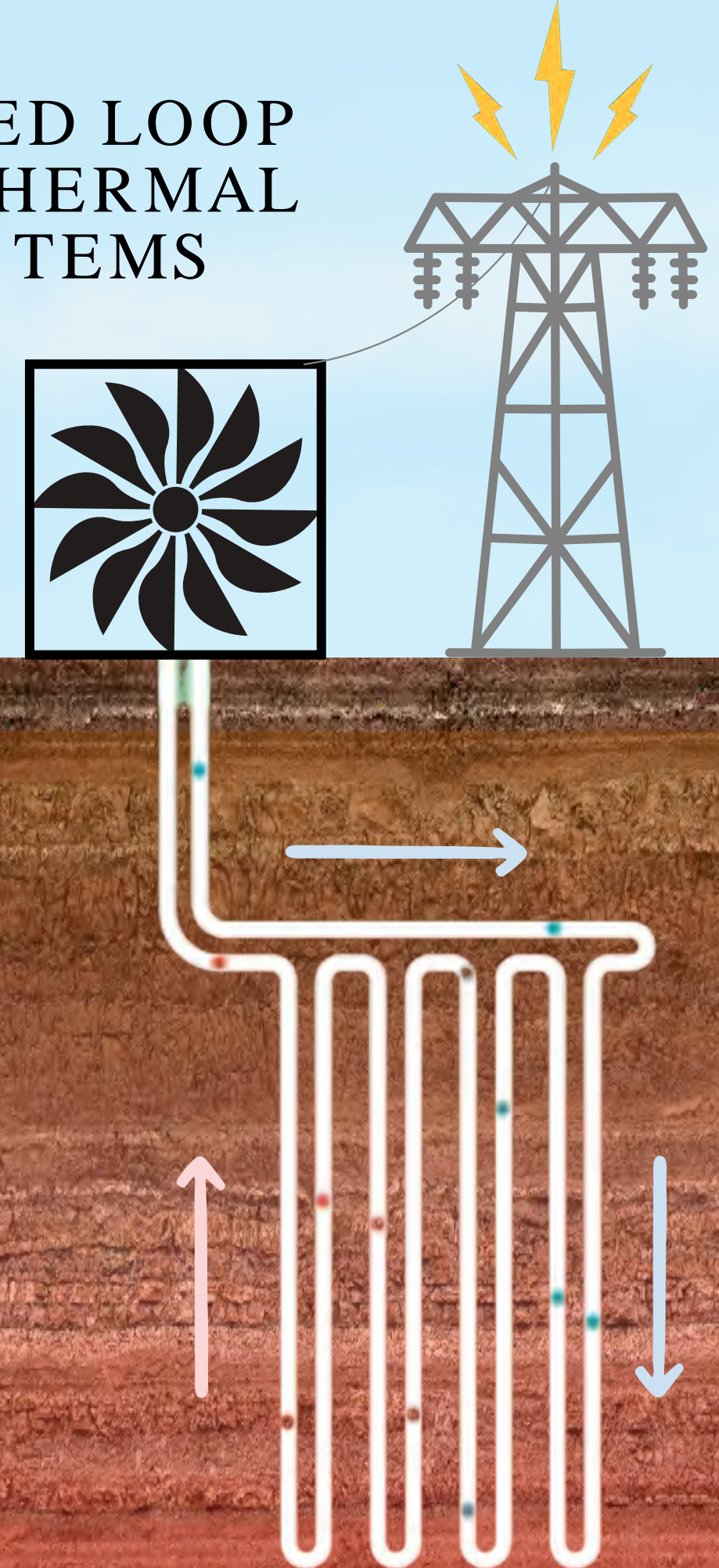
Geothermal fluid heats
a secondary fluid

Closed-loop, low
emissions

HYDROTHERMAL & ENHANCED GEOTHERMAL SYSTEMS



CLOSED LOOP GEOTHERMAL SYSTEMS





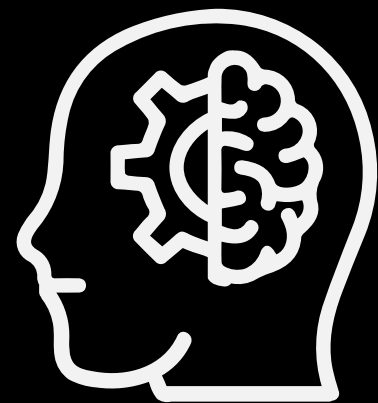
ABOUT GEOTHERMAL RISING

- Largest and oldest geothermal membership organization in the world, founded in 1972.
- A 501(c)(3) nonprofit dedicated to promoting geothermal energy and supporting those who develop and use it.
- Works to build and empower the geothermal community through education, networking, and advocacy.
- Engages the public to raise awareness and highlight geothermal energy's role in a clean energy future.
- Actively educates and engages in policy at the federal, state, and Tribal levels across North America.





VISION



A brighter future for
Earth and all its
inhabitants, powered
by the planet itself.

MISSION



To connect the geothermal
community and champion
geothermal energy in the
United States and around the
world.





OBJECTIVES

Raise Public Awareness of
Geothermal Energy

Champion Innovation

Build an Enabling Environment
for Geothermal Energy

Expand GR's Activities to Grow
the Geothermal Industry



EARTH ENERGY VISIONARIES





GEO THERMAL CHAMPION MEMBERS





CLEAN ENERGY SUSTAINER MEMBERS





WHAT DO WE DO?

RAISE PUBLIC AWARENESS & SUPPORT INNOVATION

- **Educate & Inform** – Increase geothermal visibility through marketing, media outreach, and policymaker engagement.
- **Access to Resources** – Members gain access to the largest geothermal library on the planet.
- **Research & Publications** – Share emerging geothermal insights through Geothermal Transactions and The Geothermal Blog.
- **Advance Technology** – Amplify research and innovation that accelerate geothermal development.





EDUCATE & INFORM

Educational Programs – Host webinars, workshops, student sections, and a traveling museum exhibit to inform and inspire future leaders.

Student Engagement – Support students through research access, networking, and career development opportunities.

Policy & Advocacy – Engage with lawmakers, provide testimony, submit letters and feedback on legislation, and lead Capitol Hill and state-level outreach.

Stakeholder Collaboration – Partner with agencies, utilities, and NGOs to promote all geothermal technologies and amplify impact





GEO THERMAL KNOWLEDGE HUB

Comprehensive Library

- Members gain exclusive access to the largest geothermal library in the world, with decades of research, technical papers, and case studies.

Publications

- Stay informed through Geothermal Transactions and The Geothermal Bulletin, covering industry insights, breakthroughs, and trends.

Archives & Reports

- Browse curated archives from past conferences, technical workshops, and industry reports to support ongoing innovation and knowledge-sharing.

[HOME](#) > [OUR IMPACT](#) > [BULLETIN BLOG](#)

Bulletin Blog

From information on Geothermal Rising and its ac
history, our blog is a source of information for you



Geo Community at the Core

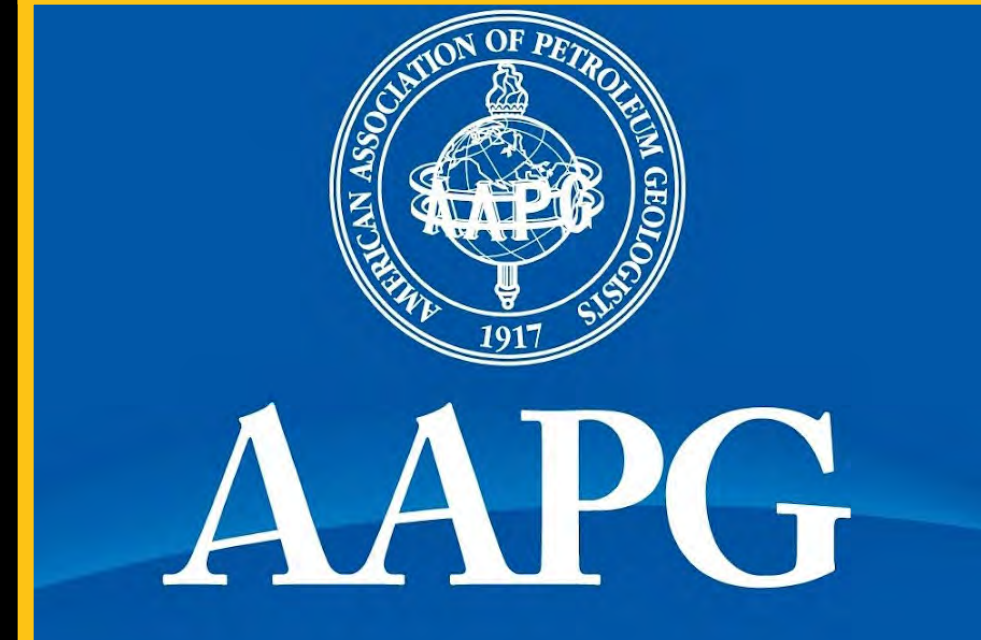


ADVANCE TECHNOLOGY

Geothermal Rising supports innovation and accelerates the deployment of geothermal technologies across sectors.

This includes hosting events such as

- Thermal Energy Networks (TENs) Symposium and the Subsurface Geothermal Symposium.
- Collaborating with organizations like SEG, AAPG, and SPE to promote cross-sector knowledge sharing.
- Advancing research in Next Generation Technologies (EGS, AGS and others), Geothermal Energy Networks (GENs), and hybrid technologies.





POLICY & ADVOCACY

- **Influence Policy** – Collaborate with federal, state, and Tribal governments to shape policies that promote geothermal energy.
- **Support Legislation** – Advocate for regulatory changes and incentives that foster geothermal growth.
- **Geothermal Capitol Hill Day** – An annual event where the geothermal community educates policymakers, agency staff, and clean energy advocates in Washington, DC. Raising the profile of geothermal technologies and sharing policy solutions to support industry growth.



POLICY & ADVOCACY

2024 accomplishments include:

- 12+ formal advocacy and/or policy endorsement letters
- 9 geothermal bills introduced in the House or Senate
- 3 policy-focused knowledge sharing events
- 80+ meetings with Federal and State offices
- Participation in 7 State level geothermal working groups
- 18+ State level geothermal bills introduced





CANADA GEOTHERMAL RISING POLICY COUNCIL (CANADA GRPC)

2024 accomplishments include:

47+ engagements, policy memos, briefings, and consultations led by Canada GRPC.

- Advanced geothermal priorities in meetings with federal and provincial ministries, MPs, and regulators.
- Submitted strategic input on emissions caps, clean tech tax credits, and regulatory reforms.
- Represented Canada's geothermal interests at GRC 2024, WING Canada, and other key industry events.
- Strengthened public awareness and sector momentum through outreach, roundtables, and partnerships.



INDUSTRY & COMMUNITY ENGAGEMENT

- **Conferences & Networking** – Connect professionals through workshops, webinars, and the annual Geothermal Rising Conference.
- **Regional Interest Groups (RIGs)** – Support local advocacy and education in active regions like Texas, Louisiana, and Oklahoma (TXLAOK).
- **Tribal Working Group & Workforce Success Group** – Promote engagement and representation across the geothermal sector.
- **Student Chapters** – Provide graduate students with research, career development, and networking opportunities.
- **Technology Advancement** – Highlight innovation through events like the Thermal Energy Networks Symposium.





CONFERENCES & NETWORKING

Geothermal Rising connects the industry through events that educate, engage, and build community.

- **Annual Geothermal Rising Conference** – Draws over 1000 attendees for technical sessions, networking, and exhibitions.
- **Webinars & Workshops** – Monthly sessions reach hundreds of professionals, students, and researchers across the sector.
- **Inclusive Participation** – Events welcome a broad audience, including policymakers, academics, and industry leaders.

GEOthermal RISING CONFERENCE

OCTOBER 26–29, 2025

PEPPERMILL RESORT | RENO, NV





TRIBAL WORKING GROUP & WORKFORCE SUCCESS GROUP

Geothermal Rising is committed to expanding opportunity, access, and representation across the geothermal industry.

The Workforce Success Group fosters an inclusive and innovative community by supporting initiatives that empower individuals and strengthen the sector.

The Tribal Working Group creates space for collaboration, dialogue, and partnership with Tribal communities, ensuring Indigenous voices are included in geothermal development and decision-making.

As we grow across markets and internationally, we remain dedicated to building a more connected, equitable, and resilient geothermal future.





REGIONAL INTEREST GROUPS (RIGS)

RIGs are local hubs that help Geothermal Rising expand awareness, advocacy, and innovation across key regions.

- **Educate & Engage** – Connect with communities and policymakers through outreach and events.
- **Support Innovation** – Highlight region-specific opportunities and emerging technologies.
- **Advance Policy** – Collaborate with local leaders to promote geothermal-friendly policies.
- **Grow the Community** – Connect professionals, students, and advocates to build momentum and impact locally.

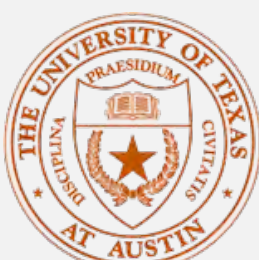




STUDENT SECTIONS

Geothermal Rising's Student Sections empower future leaders in geothermal through:

- **Professional Development** – Access to industry mentors, workshops, research awards, and travel grants.
- **Community & Leadership** – Engage in a dedicated student committee with volunteer roles and board representation.
- **Resources & Opportunities** – Exclusive access to the geothermal library, scholarships, travel grants, discounted events, and networking.





HOW TO GET INVOLVED

BECOME A MEMBER

Open to individuals, companies, researchers, and students.
Access to exclusive resources, events, and networking opportunities.

ENGAGE & PARTICIPATE

Participate in conferences, workshops, and webinars.
Follow GR's social media, newsletters, reports, and industry updates.

VOLUNTEER & ADVOCATE

Support the Geothermal Rising Conference (GRC) through planning committees or technical roles. Advocate for geothermal policies and spread awareness of clean, renewable energy.



THANK YOU

We appreciate your time and interest in Geothermal Rising.



<https://geothermal.org/>



info@geothermal.org



@GeothermalRising

