

# GEO THERMAL ENERGY BEYOND ELECTRICITY

## 1 ELECTRICITY PRODUCTION

### 📍 Ribeira Grande Geothermal Field ⚡

- Renewable and green electricity
- About 33% of São Miguel Island electricity
- Energy transition and decarbonization



## 2 BUILDING HEATING



### Caldeiras da Ribeira Grande Demonstration Site

- Underground heat exchangers capture natural heat from the ground
- Space heating and natural ventilation
- Sustainable building climatization



## 3 HOTELS & TOURISM



### Furnas Hotels

- Iron-rich thermal water heats domestic water through a heat exchanger
- Swimming pools fed and heat by geothermal water
- Low environmental impact



## 4 WELLNESS & THERMAL SPA



### Termas das Caldeiras da Ribeira Grande

- Use of thermal waters and hydrothermal resources
- Therapeutic bathing for health and well-being



## 5 GEOTHERMAL COOKING



### Furnas Volcano Thermal Areas

- Traditional “Cozido das Furnas”, slowly cooked underground using geothermal heat during 5-6 hours
- Sweet corn cooked in the hot spring for 1 hour
- Cultural and gastronomic heritage



The Azores Islands combine active volcanic systems with abundant geothermal resources, enabling a wide range of applications beyond electricity production.