

# Lithium from Geothermal Brine

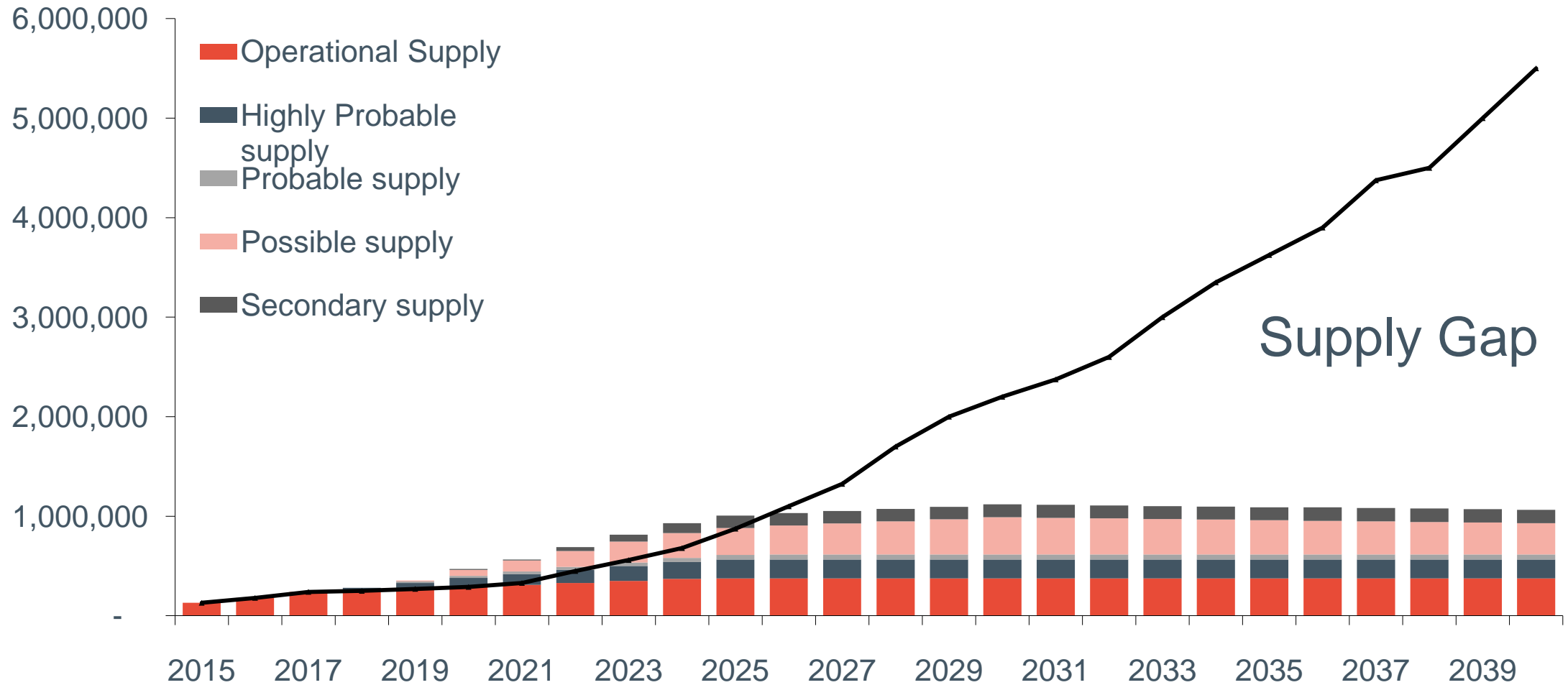


**Controlled Thermal Resources - Hell's Kitchen Lithium-Geothermal Project**

**Imperial Valley, California**

**Presented by Rod Colwell, CEO**

# Lithium Supply and Demand (Tonnes LCE)



# Environmental Impact of Lithium Production

## Traditional Brine Production



- Large physical footprint
- Requires thousands of acres of ponds
- One-way removal of water from the ground to the atmosphere, impacting groundwater and land subsidence
- Residual salt waste can be toxic to flora and fauna
- Requires large amounts of water in dry areas (500,000 gallons per tonne of Lithium)

## Hardrock Lithium Mining



- Large physical footprint
- Permanent reshaping of the environment
- Requires significant processing and generates large amounts of tailings
- Commonly shipped overseas in semi-refined form for further processing
- Longer development lead times

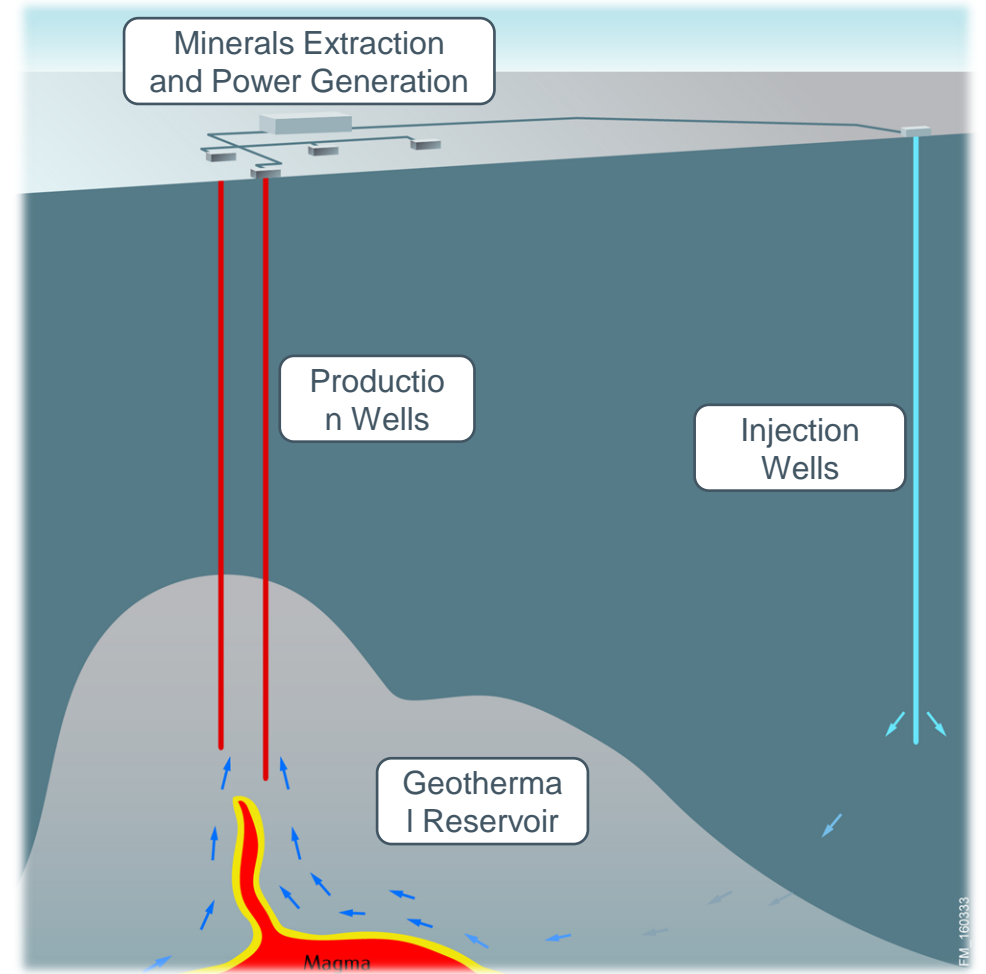
## Lithium from Geothermal Brine



- + **Small footprint**
- + **No open-cut mining**
- + **No evaporation ponds**
- + **Powered by 100% renewable energy**
- + **Minimal water and reagent usage**
- + **Meets sustainability reporting requirements of many manufacturers and financial groups**

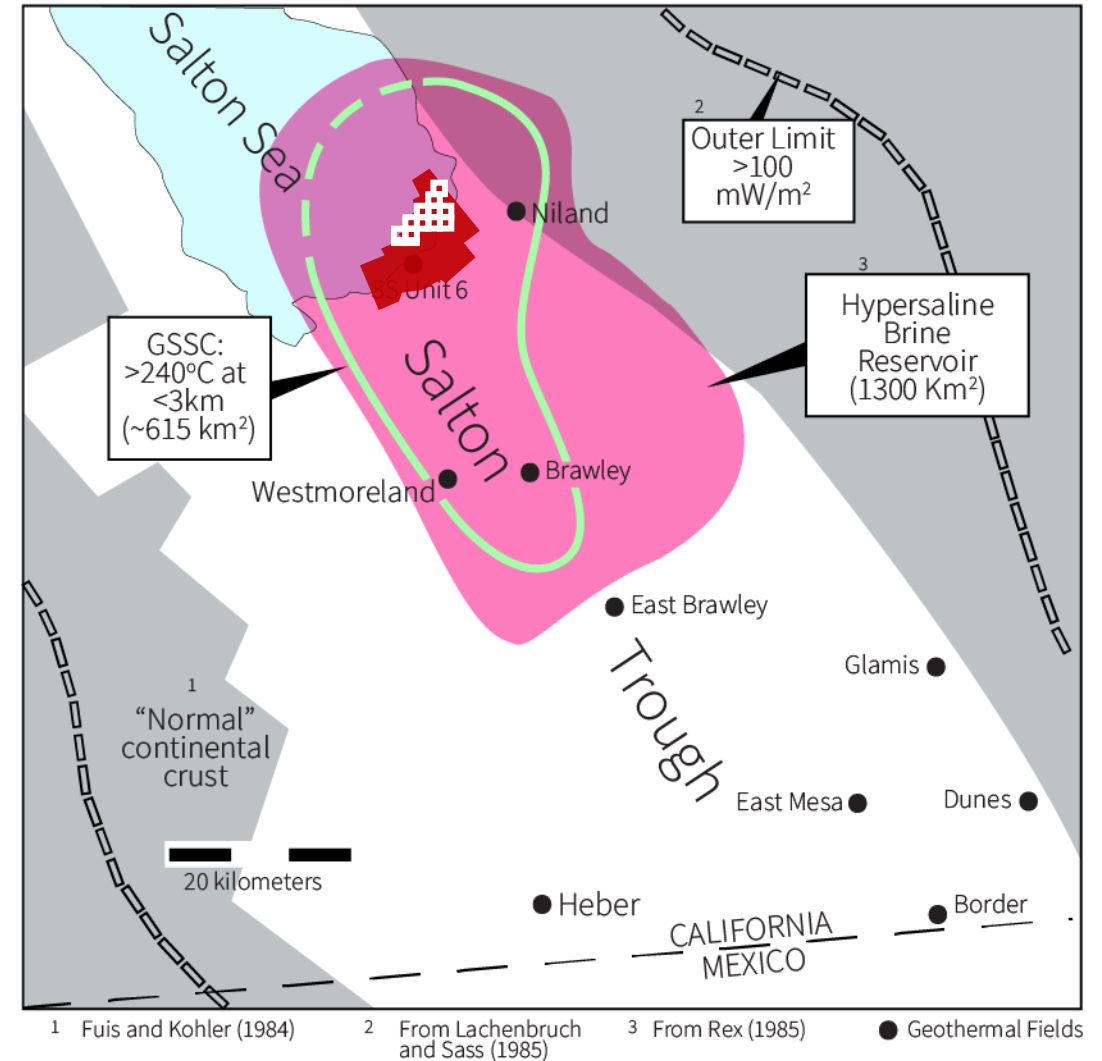
# Mining from Geothermal Reservoirs

- With deep drilling technology we can access deeper resources.
- From geothermal brines both energy and minerals can be produced.
- Small footprint on surface can extract from a large subsurface resource.
- Using heat from geothermal brines to drive extraction processes and generate power reduces emissions and water usage.

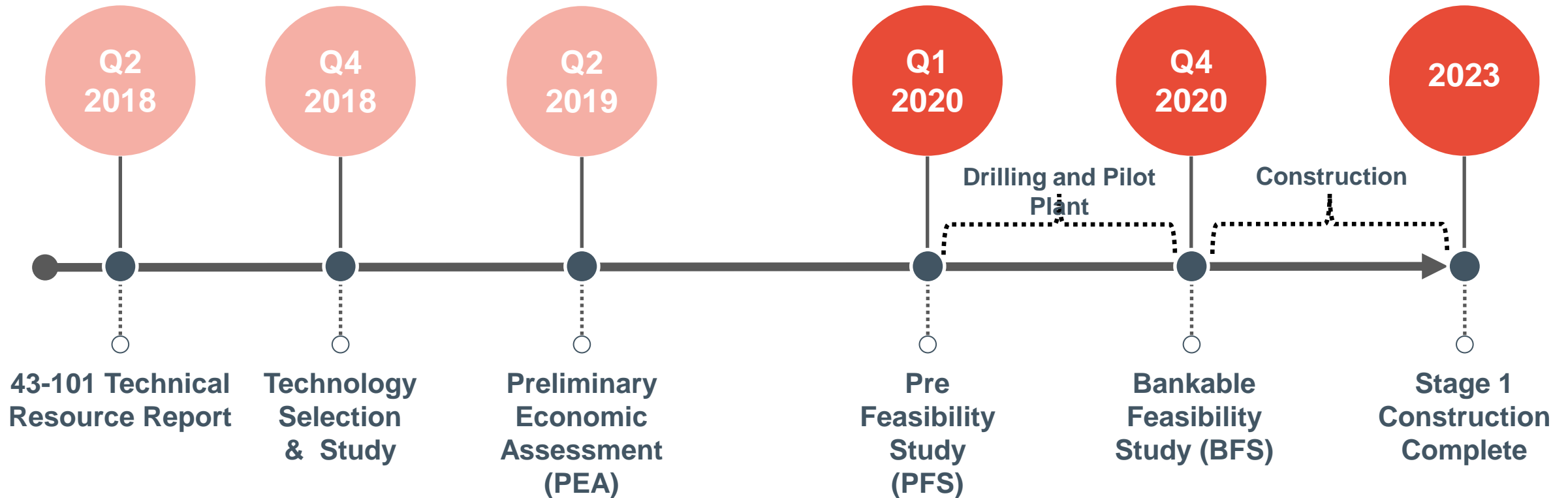


# Salton Sea Resource Overview

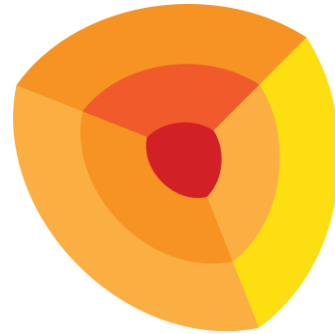
- Resource body is a large, deep, hyper-saline aquifer covering over 320,000 acres
- "Homogeneous" body with relatively consistent properties throughout
- Known faults and fractures within the Salton Sea Geothermal Field demonstrate superior flow rates
- Most studied geothermal field in the world



# Following the NI 43-101 Process

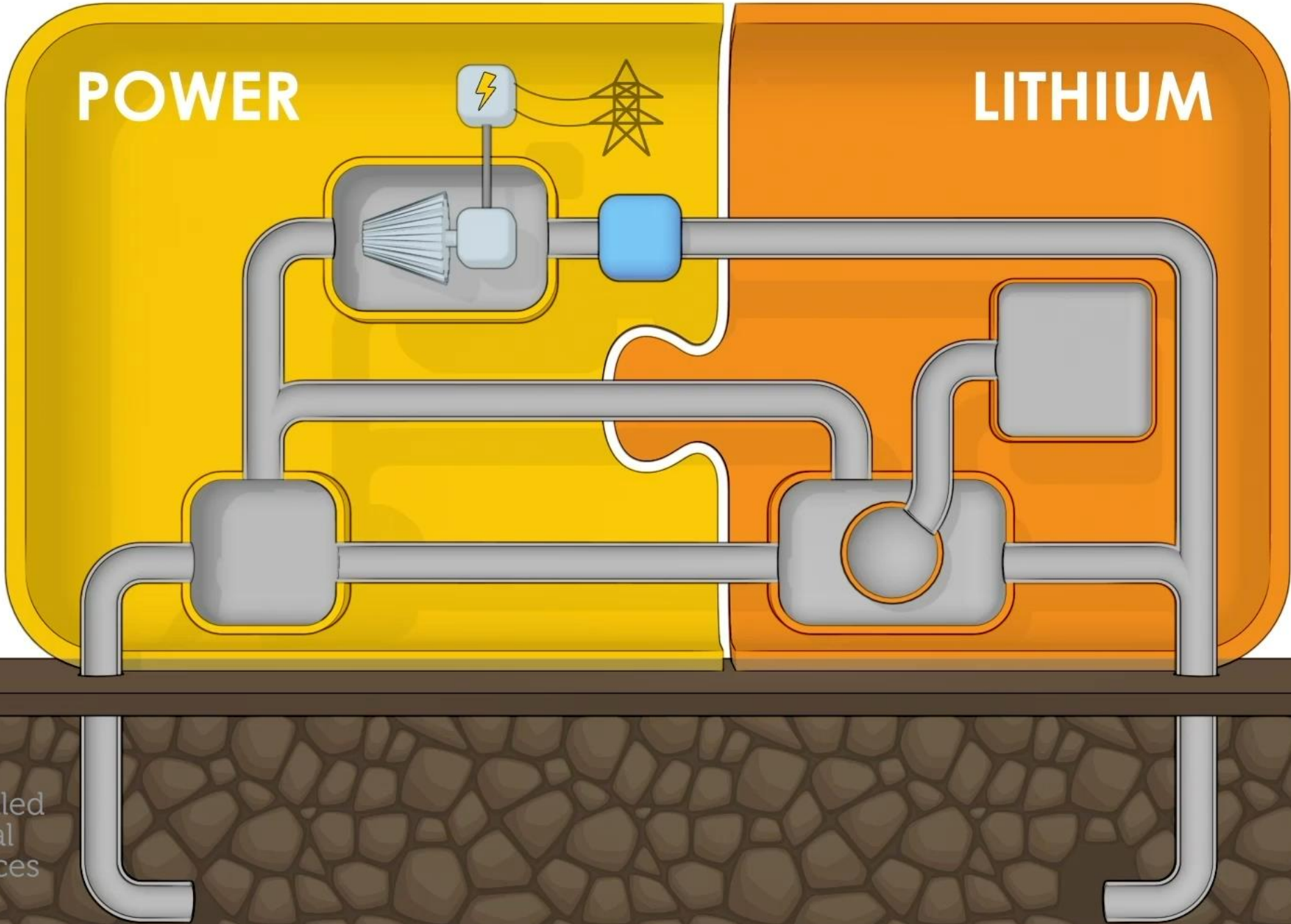


# Summary of Key Project Attributes



Controlled  
Thermal  
Resources







# Thank You

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