

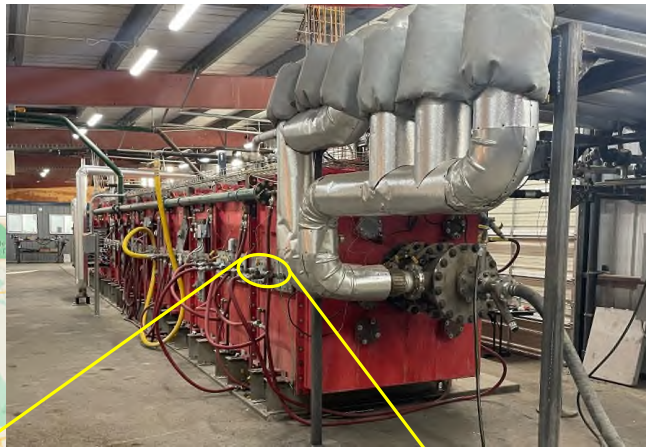
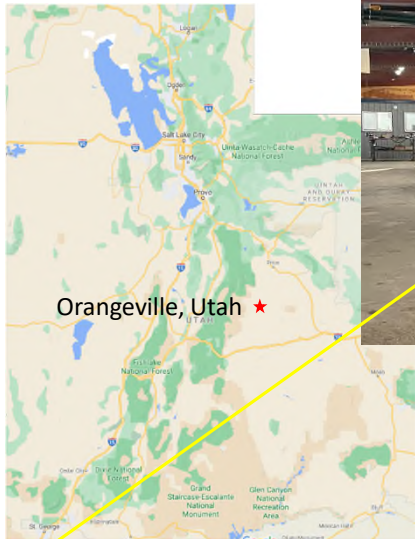
# Supercritical CO<sub>2</sub> Equipment Installations at the Utah San Rafael Energy Lab (USREL): Future Work

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# sCO<sub>2</sub> Demonstration Unit at USREL



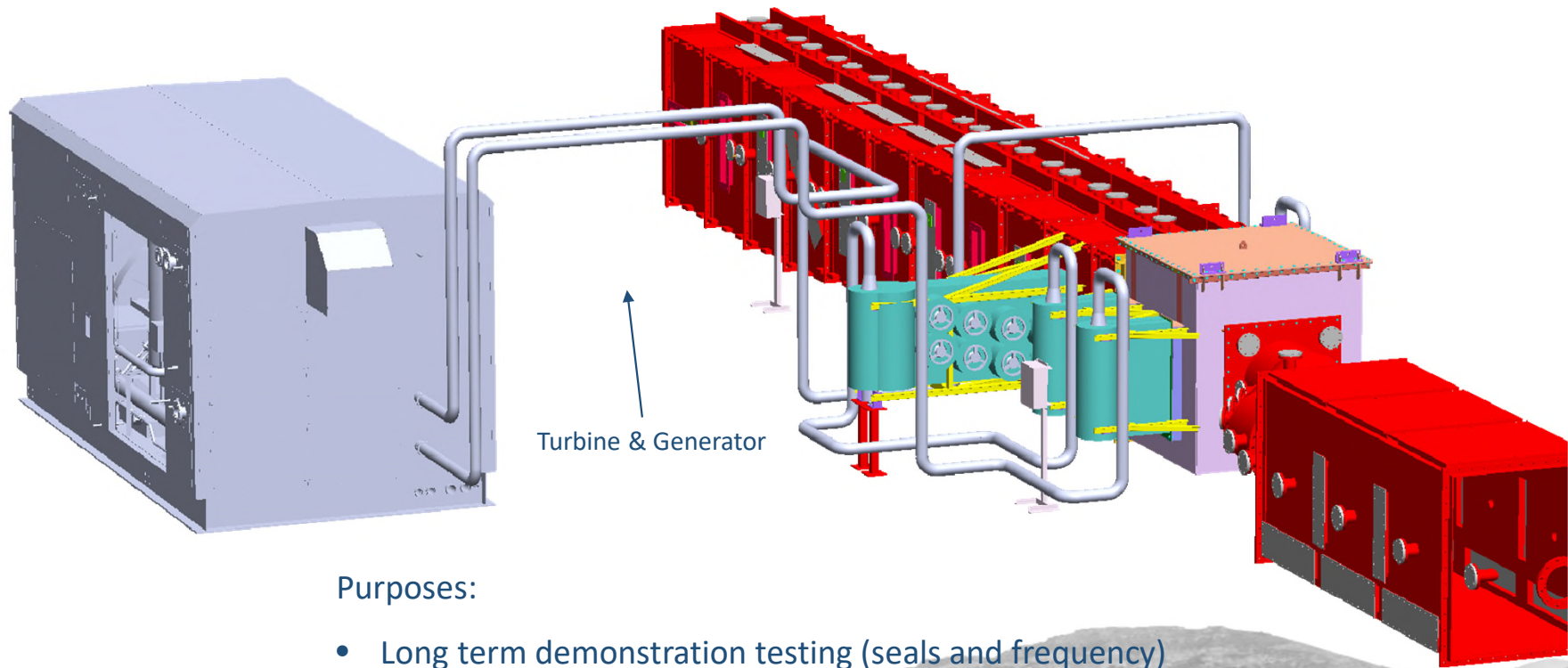
1.5 MW<sub>th</sub> Pulverized Coal Flame



	Target	Reached
Operating Time (hours)	500	407
Firing Rate (MW <sub>th</sub> )	1.7	1.6
PHX Heat Adsorption (MW <sub>th</sub> )	1.2	1.2
CO <sub>2</sub> Temperature (°C)	600	607
CO <sub>2</sub> Pressure (MPa)	20.5	20.3



# Small Modification to Current Configuration



Purposes:

- Long term demonstration testing (seals and frequency)
- Integration with grid (Gearbox, Rectifier)

# Couple with Small Modular Nuclear Reactor (SMR)

Purposes:

- Method of thermal certification of MSR
- Demonstration of MSR / sCO<sub>2</sub> coupling

