

# Opportunities for nuclear industrial heat

May 2025



# About Westinghouse

More than  
**11,000**  
Employees

Locations in  
**21**  
Countries

Comprised of  
**4**  
Business Units

OPERATING PLANT SERVICES

NUCLEAR FUEL

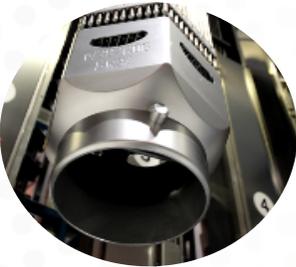
ENERGY SYSTEMS

ENVIRONMENTAL SERVICES

More than  
**90**  
Facilities

Our Technology  
Generates Nearly  
**50%**  
Of the World's  
Nuclear Power

# Global Products & Services Portfolio Snapshot



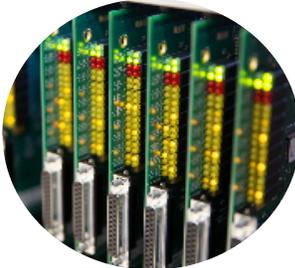
**Nuclear Fuel**



**Components & Manufacturing**



**Engineering Services**



**Instrumentation & Controls**



**Field Services & Plant Modifications**



**Decontamination & Decommissioning Solutions**



**Staffing Services**



**Engineering Services**

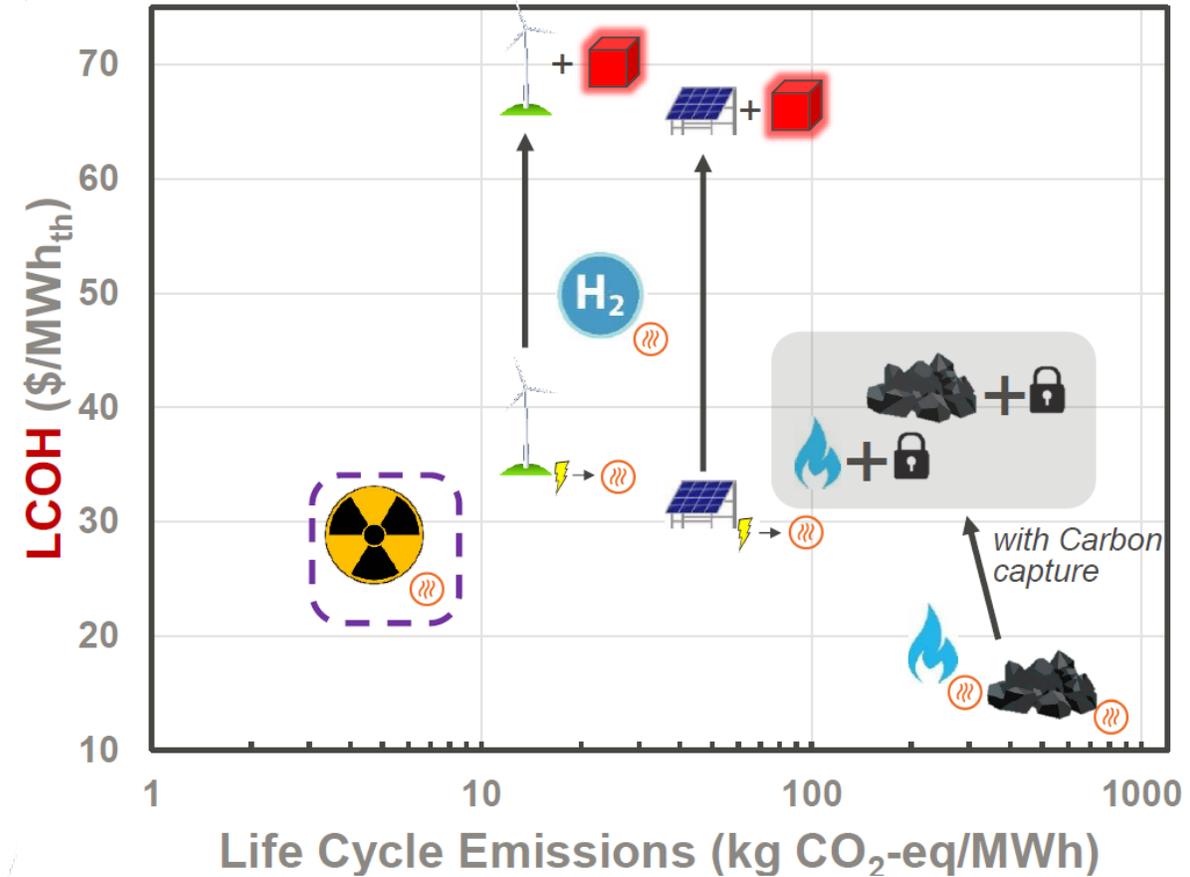
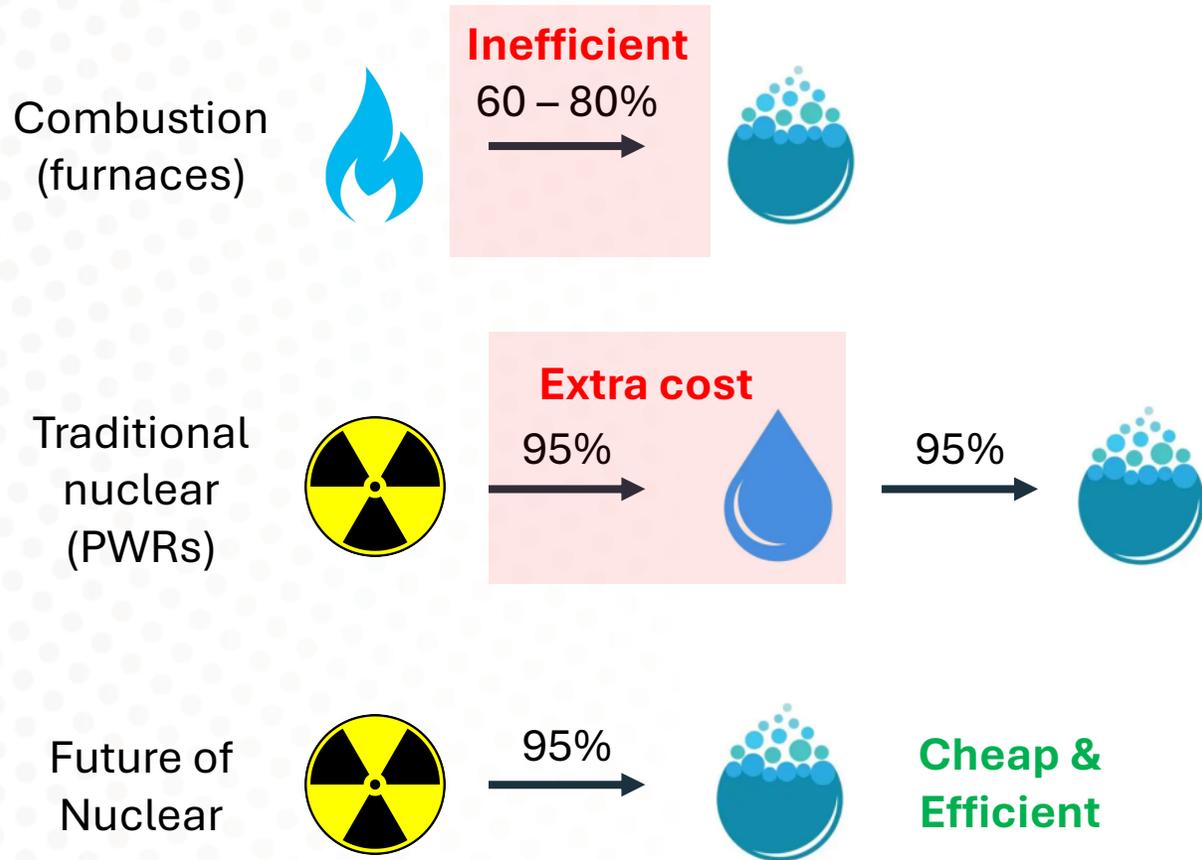


**Advanced Reactor Technology Offerings**



**Long-Duration Energy Systems**

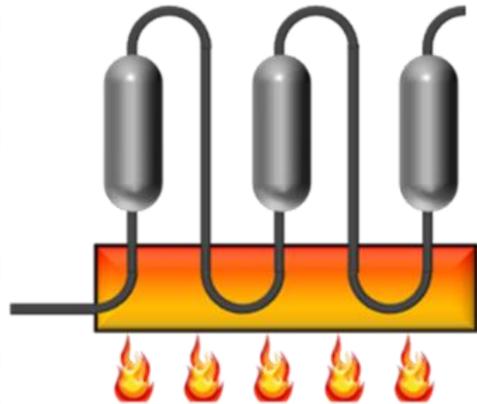
# Nuclear's advantage is direct, efficient heating



# DOE is considering a NOFO on this concept

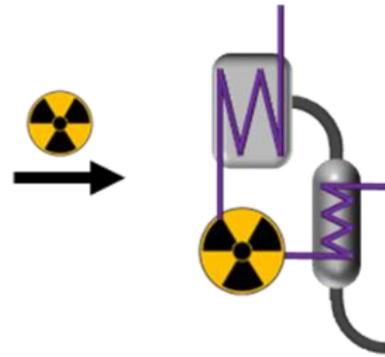


Current Process



- Non-isothermal
- Large reactor volume (~100 m<sup>3</sup>)
- Low catalyst utilization (~3%)
- Inefficient heating (< 60%)

With Process Intensification

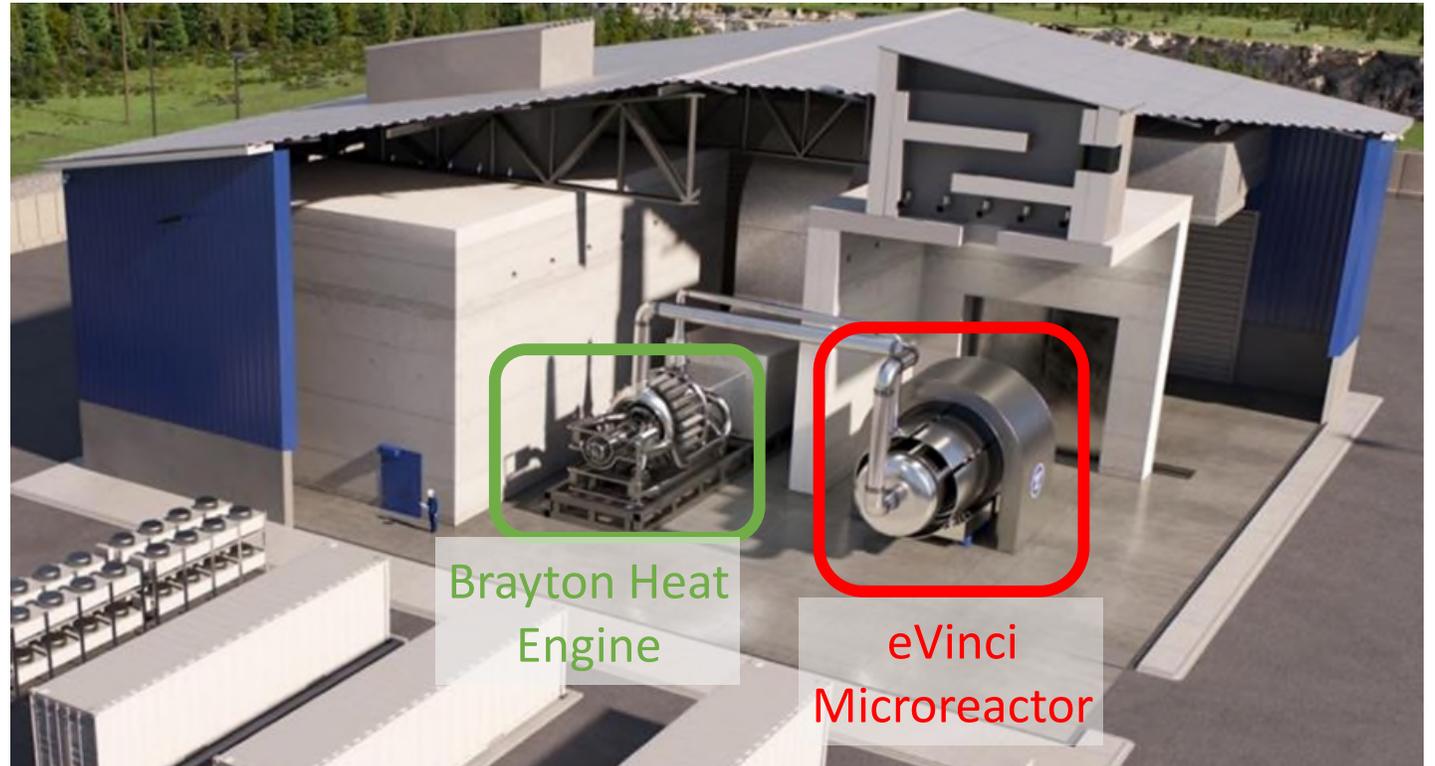


- Isothermal
- Compact (~3 m<sup>3</sup>)
- High catalyst utilization (25%)
- Efficient heating (90%)

NOFO release imminent?

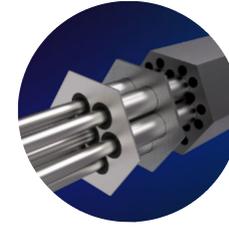
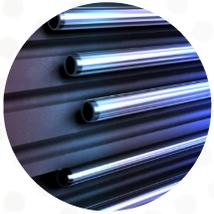
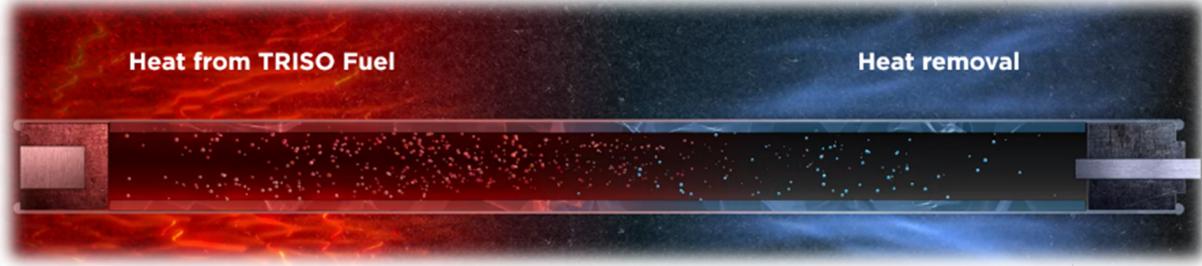
# The eVinci microreactor for industrial heating

- Thermal battery
  - 8 years of continuous full power
  - Transportable
  - Self-cooling
- 15 MW<sub>th</sub>/5 MW<sub>e</sub>
- Open-air Brayton Cycle
- 800°C air output



# Heat pipes are more efficient than furnaces

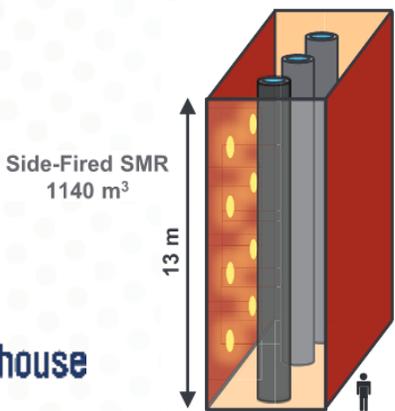
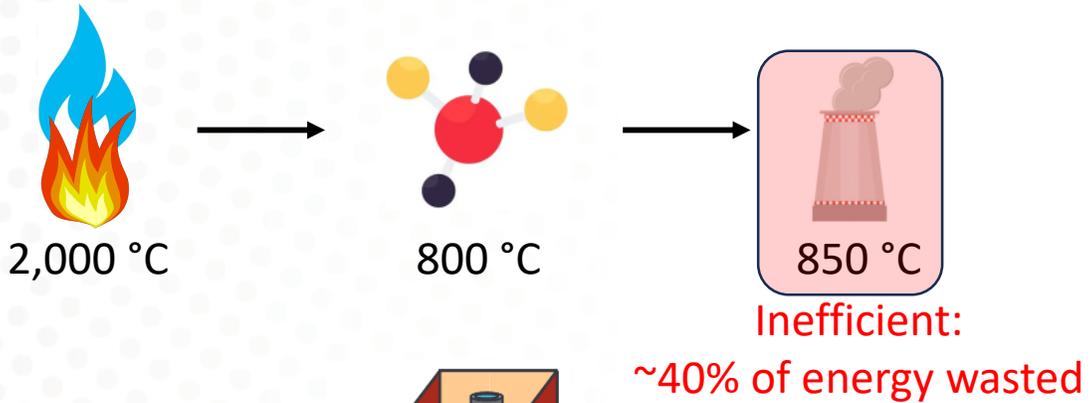
Very Low Pressure • Passive • Isothermal • Self-Regulating



Testing at Etna, PA



## Combustion



Enormous

## Nuclear Future

