



# THERMAL STORAGE FOR NUCLEAR ENERGY

[www.arpa-e.energy.gov](http://www.arpa-e.energy.gov)

# QUESTIONS



**1. How do we quantify the need/value in integrating thermal storage with nuclear?**

# QUESTIONS



**2. What are the biggest barriers to integrating thermal storage with nuclear energy?**

# QUESTIONS



**3. What system(s)/materials are best suited for this application?**

**What will be cost of storage for diurnal, weekly and seasonal charging and discharging?**

# QUESTIONS



**4. What is the total capacity potential for deployment of thermal storage with nuclear?**

# QUESTIONS



**5. What advances in heat exchanger or power conversion technology would enable economic utilization of nuclear heat?**

## QUESTIONS



**6. What are the implications of an attached thermal energy storage system on the safety licensing of the reactor?**

**For instance, could the thermal energy storage be a source of emergency power?**

**What incidents with the thermal energy storage system might propagate into the reactor operation?**

## QUESTIONS



**7. What will a very high impact research and development program look like for nuclear energy storage system assuming a funding of < \$5M per project?**

**What will be the composition of an ideal research team?**