Department of the Air Force
Request for Solution (RFS)
Other Transaction Authority (OTA)
Consortium Management Organization (CMO)

Attachment 2: DECo Technology Areas

1. **Energy Resilience Technologies:** These include, but are not limited to, cutting-edge utility-scale geothermal energy technologies, advanced nuclear generation, microgrids, advanced energy storage, fuel-flexible backup generation, cybersecure and dispatchable onsite generation, geologic hydrogen and hydrogen production, advanced energy management systems, high-performance cooling systems, waste-heat recovery systems, and advanced modeling tools to design and assess the resilience and reliability of installation energy distribution infrastructure.

2. **Extreme Weather Hardening Technologies:** These include process water treatment technologies, stormwater and wastewater management systems, and other technologies and systems needed to withstand droughts, floods, hurricanes, and other extreme weather so mission critical facilities remain energy resilient and operational.

3. **Resilient Facility Technologies:** These include, but are not limited to, cyber-secure building energy management communications systems, advanced building energy efficiency technologies, and building construction techniques and technologies.

4. **Operational Demonstrations of Energy Resilient Technologies:** Demonstrations of pre-commercial energy resilience technologies and novel applications of commercial energy resilience technologies for defense purposes (e.g., Technology Readiness Levels (TRL) 5-8).

5. **Energy Services Process Prototypes:** Installation-specific process prototypes that integrate all energy services across an installation's entire energy delivery chain – offsite commodity procurement, onsite distribution infrastructure upgrades, behind-the-meter generation assets, building envelope, and building heating, cooling, and electricity loads – to provide reliable, resilient, and cost-effective energy to meet mission owner requirements.

DRAFT