



MOLTEN SALT REACTOR TECHNOLOGY WORKING GROUP

LAUREN LATHEM

Molten Salt Reactor TWG →

ONE

Terra Power

Fast
Breeder
Liquid Fuel
Salt Cooled
Uranium

TWO

Thorcon

Thermal
Burner
Liquid Fuel
Salt Cooled
Thorium

THREE

Terrestrial Energy

Thermal
Burner
Liquid Fuel
Salt Cooled
Uranium

FOUR

Flibe Energy

Thermal
Breeder
Liquid Fuel
Salt Cooled
Thorium

FIVE

Muons Inc.

Accelerator Driven
Subcritical
Liquid Fuel
Spent Nuclear Fuel
(U and Pu
Fluorides)

SIX

Elysium Industries

Fast
Breeder
Liquid Fuel
Salt Cooled
Uranium

SEVEN

Alpha Technology Corporation

Thermal
Breeder
Liquid Fuel
Salt Cooled
Thorium



components

near-term

→ foak components
→ tested in relevant
conditions & configuration

vs

long-term

→ optimize components
for cost & performance

PATH FORWARD

near-term, design specific demonstrations will lay the
foundation for long-term optimization

remote maintenance

mid-term

→ unconstrained system-
maintenance interface

→ construction with remote
maintenance & real-time
quality control

vs

long-term

→ predictive maintenance
strategies

→ robotic-driven remote
maintenance

PATH FORWARD

mid-term, design specific demonstrations will lay the
foundation for significant long-term o&m reductions



SUSTAINABLE SUPPLY CHAIN

- INDUSTRIAL PARTNERS
- REPEATABLE & TRANSFERABLE

OPTIMIZED APPLICATION

- EXPERIENCED OPERATOR INSIGHTS
- HANDS-ON TESTING