

TERRESTRIAL ENERGY

Delivering carbon-free thermal and electrical energy

Connection Nuclear through Innovation

JUNE, 2026

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Terrestrial Energy at-a-Glance



Developer of the small and modular Integral Molten Salt Reactor plant (“IMSR Plant”) that uses Gen IV nuclear technology; listed under “IMSR” on Nasdaq

As a result of specific fission technology and intentional plant design choices, the IMSR Plant offers high-temperature, carbon-free heat and/or electricity supply with sector-competitive nuclear economics and time-to-market

1. Company internal projection.

\$1.4 T
Current SAM¹

Directly addresses a \$1.4 trillion SAM for industrial process heat and electricity in OECD markets and is expected to grow 35% to \$1.9 T by 2050¹

65 years

National laboratory proven and demonstrated technology

The Molten Salt Reactor research program started at Oak Ridge National Laboratory (ORNL) in the 1950s

>12 years
Corporate history

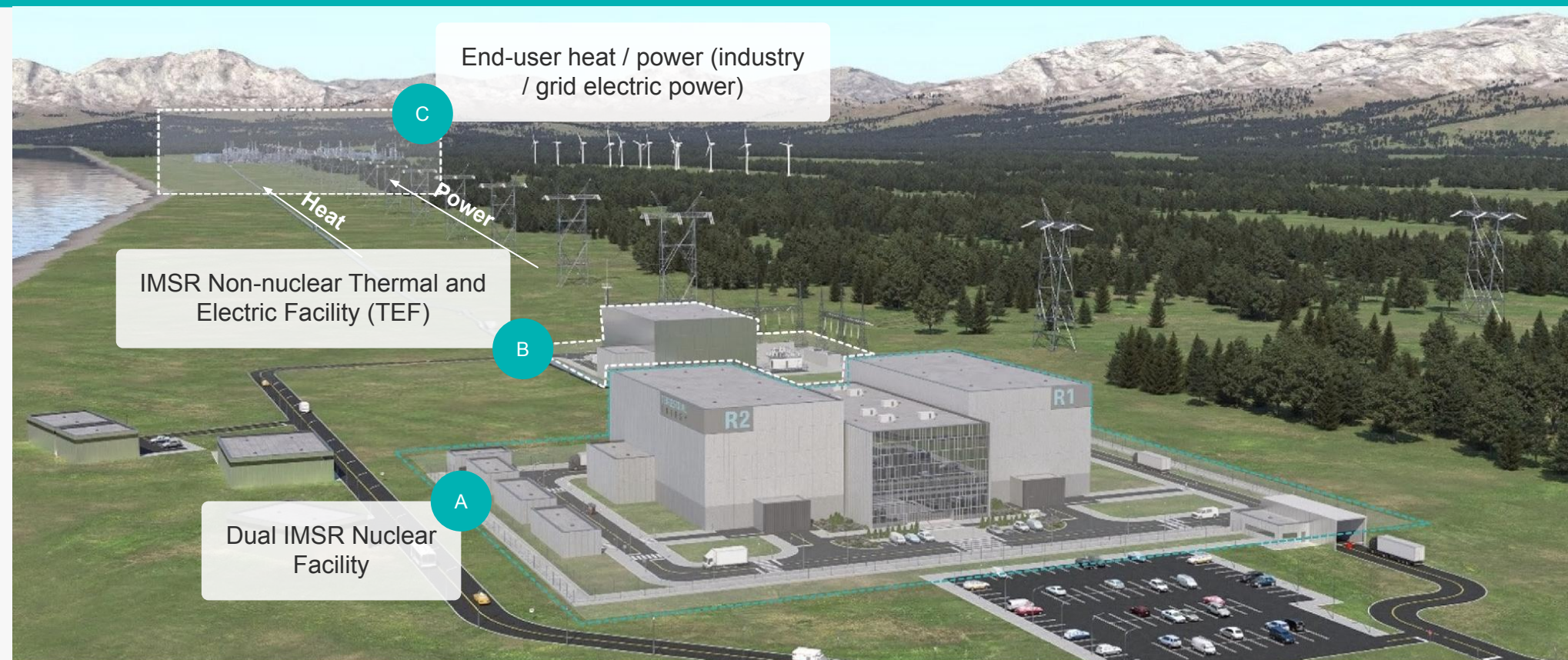
Corporate history built with an experienced management team with many decades of experience

IMSR Plant is Designed to Deliver Co-located, Customized Energy Solutions to Industry

Separation of nuclear from thermal and electrical systems allows:

- Standardized reactor design with end-user flexibility and customized co-generation of thermal and electric supply
- Easier pathway for coal plant conversion
- Ability to be hybridized with other energy systems, such as natural gas and renewables

Note: Example is for a dual reactor IMSR Plant. Scaling up is possible.
Source: Company internal view



Standardized twin IMSR Nuclear Facility

- Subject to nuclear regulation
- Standardized, simplified design reduces costs
- 822 MW (net) thermal energy production for 585°C supply



Customized non-nuclear Thermal and Electric Facility (TEF)

- Converts thermal energy from two operating IMSRs to 585°C 822 MW (net) thermal or 390 MW (net) electric power for commercial supply – or any heat/electric power mix in between
- Steam turbines operate at ~50% greater efficiency than in a plant employing legacy nuclear technology
- Separate Nuclear Facility & non-nuclear Thermal and Electric Facility (TEF) enables the potential to integrate natural gas as a bridge to rapid commercial operation and use as back-up during nuclear systems' operation

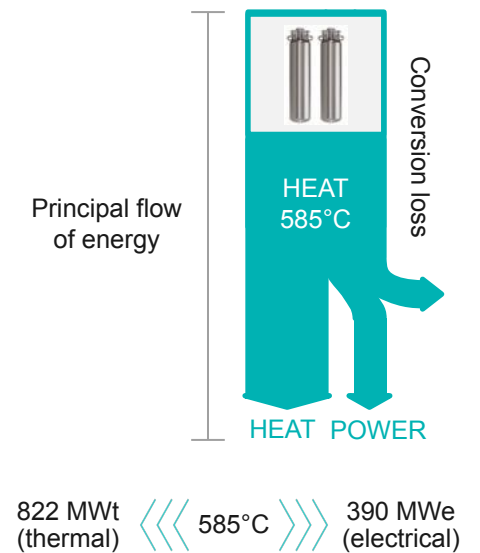


Near and co-located generation

- Chemical and petrochemical plant
- Datacenters
- Other industrials requiring clean heat & power

Prospective off-takers

- Electric grid, including municipalities



Salt Qualification

Material

✓ Fluoride salts

QA Requirements

✓ NQA-1
✓ ISO 9001

Activities

Thermo-physical properties (including aging effect and accident scenarios)

Behavior of fission products

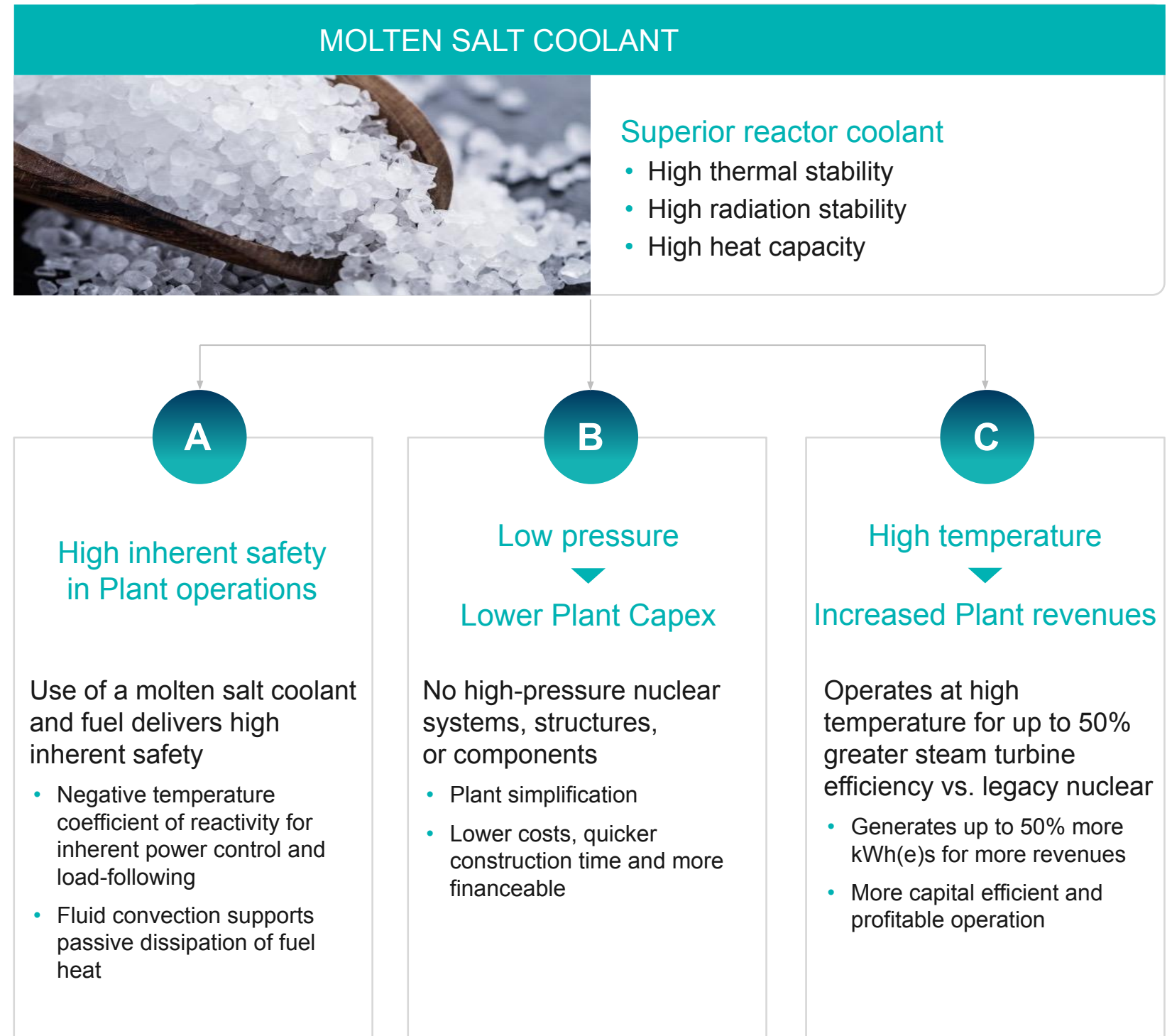
Development Needs

Development and standardization of sample preparation, characterization and measurement techniques

Bridging gap between lab-generated data and the NQA-1 (e.g. Fuel Specifications, salt qualification)

IMSR Plant's Technology and Design Choices Drive Large Economic Advantages

- ✓ High thermal stability of molten salt enables **safe high-temperature and low-pressure operation** with high inherent safety, which drives **high capital and operating efficiencies**, as well as power plant revenue and profitability
- ✓ TEF flexibility enables **integration of natural gas as a bridge** to rapid commercial operation and use as back-up during nuclear systems' operation
- ✓ The IMSR Plant at **390 MWe** is **ideally suited** for industrial applications, data centers, and grid applications, including replacing fossil plants
- ✓ The IMSR Plant is modular with factory-built components for faster on-site assembly. It is land-use efficient – requiring a fraction of the physical footprint of conventional plants – **enabling siting flexibility, lower capital costs, and shorter construction schedules**



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