

TERRESTRIAL ENERGY USA

Commercial Deployment of TEUSA's Innovative Gen IV Integral Molten Salt Reactor

*“Restoring America’s Nuclear Competitive Edge with the
Cost Competitive and Highly Reliable IMSR400”*

March 2018

- Private and Confidential -

SEALED AND REPLACEABLE IMSR® CORE-UNIT

400 MWth, 192 MWe Liquid Fueled
Advanced Small Modular Reactor

Pool-Type, High Temperature, Graphite
Moderated, Thermal Reactor

Primary pumps, heat exchangers and
graphite moderator integrated into a
compact and replaceable reactor vessel
Core-unit

Atmospheric operating pressure

704 °C Reactor Outlet Temp

600 °C Solar Salt Delivery Temp

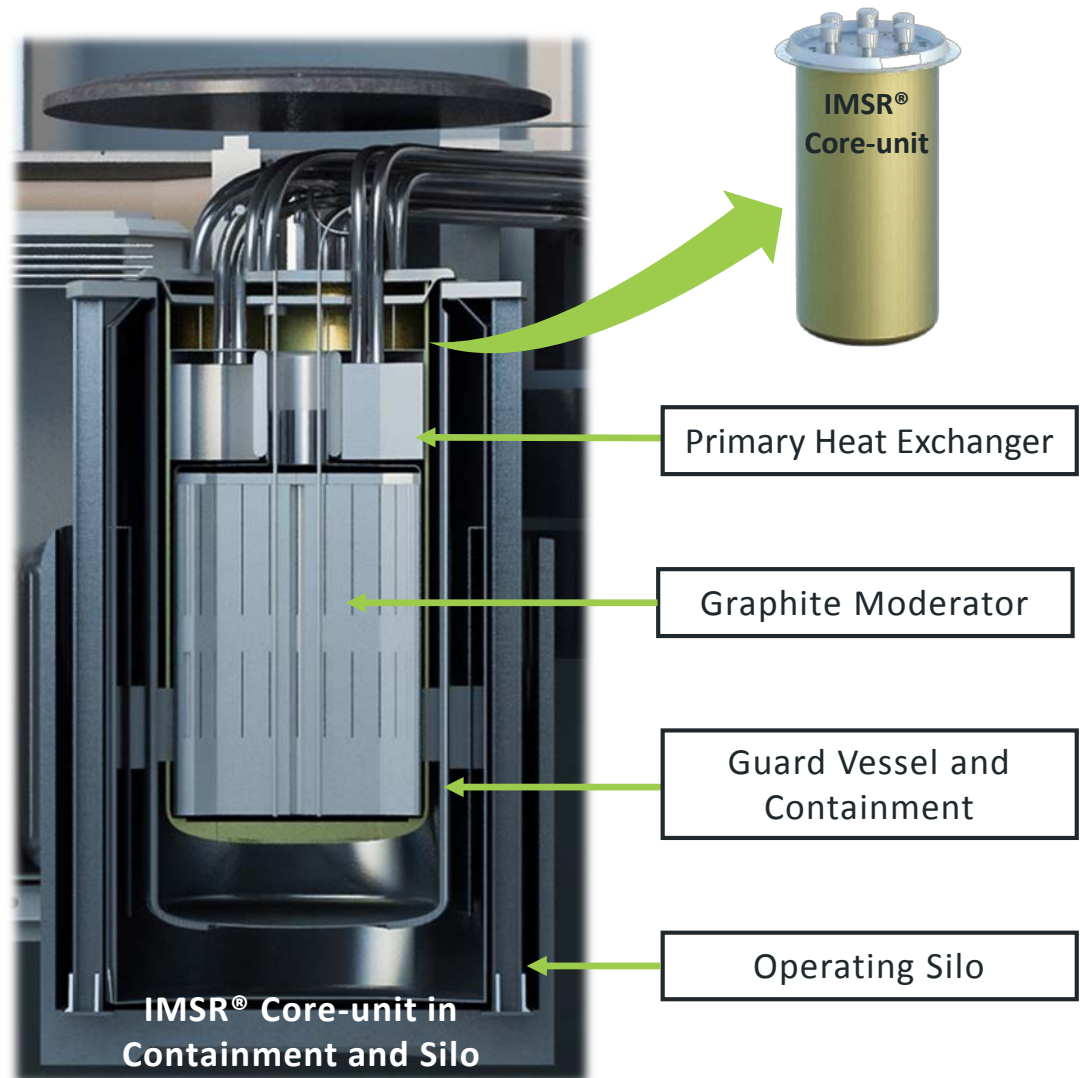
Fueled with Low Assay (<5%) LEU

Common Fluoride Salts with UF₄

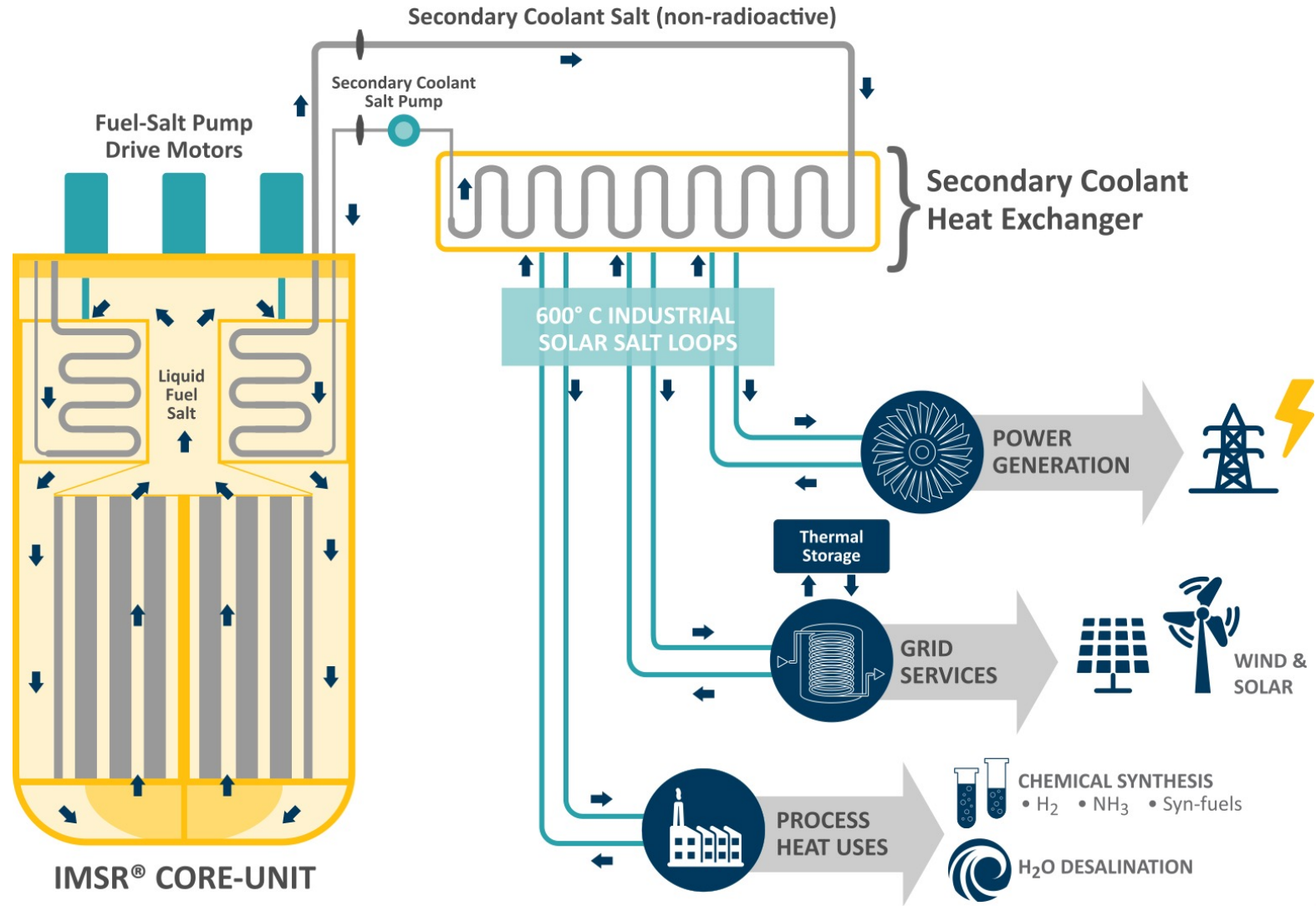
7-year operational life

2 Core-unit silos, allows switching Core-
unit operations from one silo to the other
every 7 years

Entire Core-unit replaced after 7 years of
continuous operations



IMSR® END-USE APPLICATIONS



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