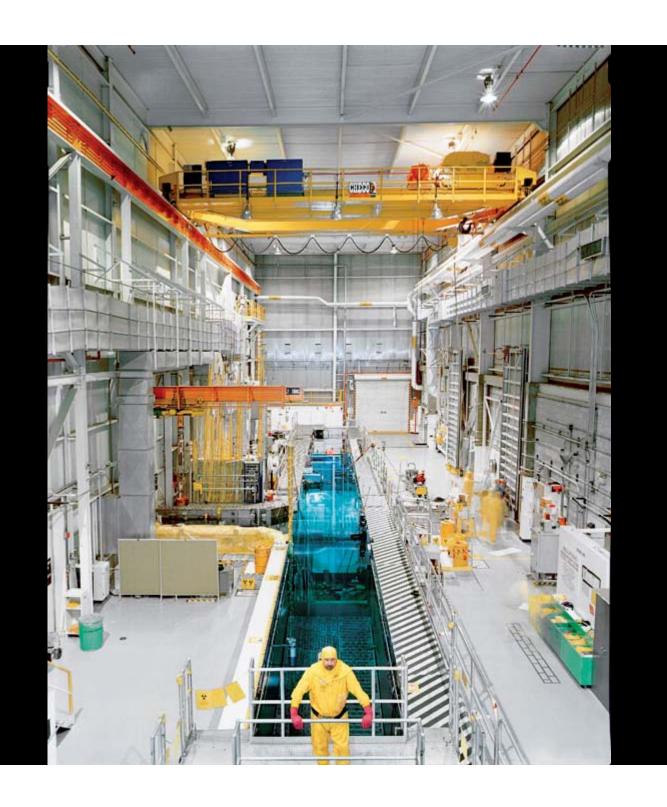
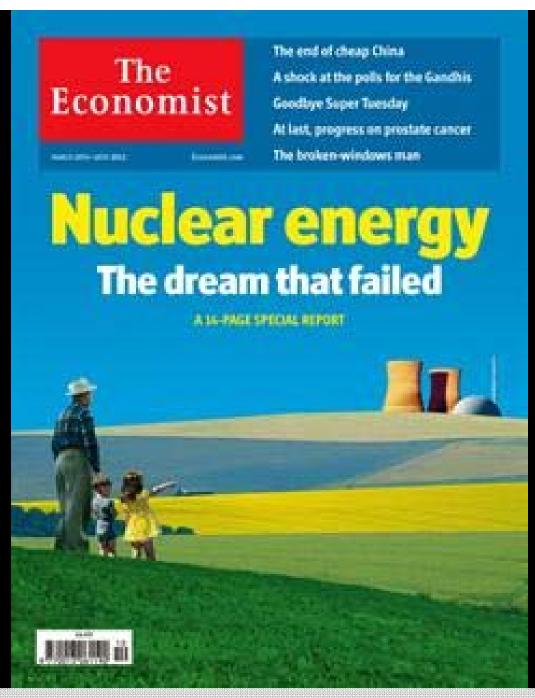
Abundant and Reliable Energy from Thorium



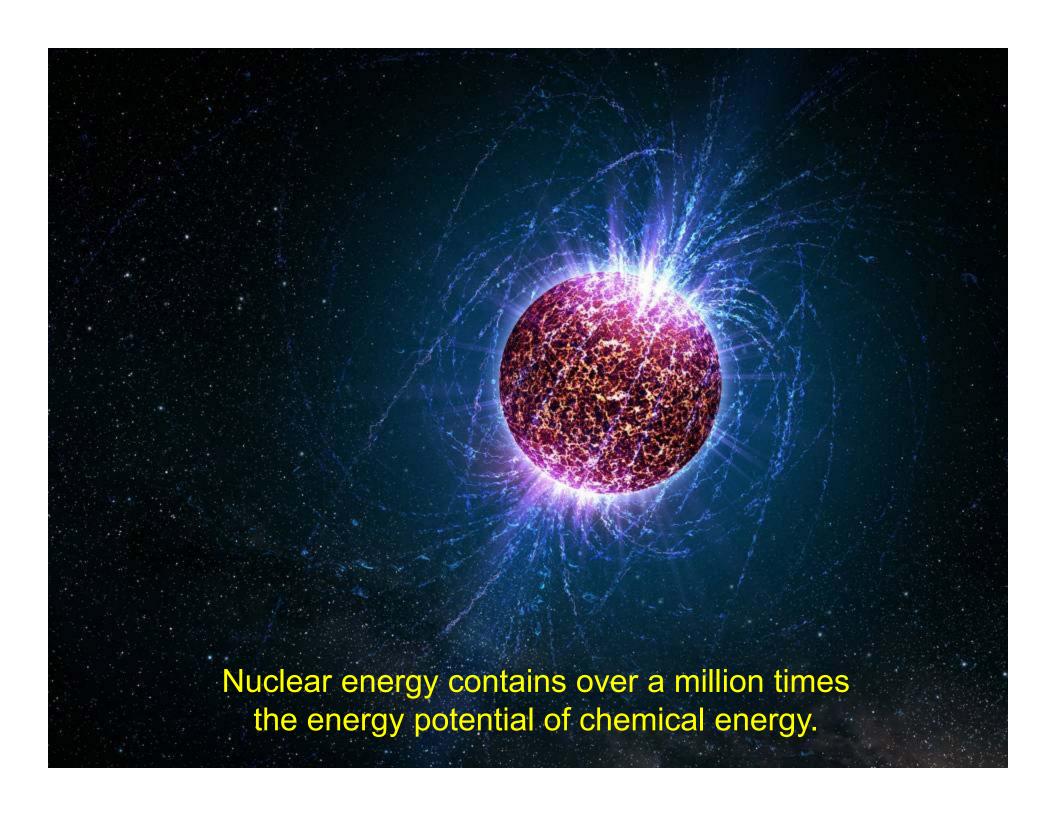






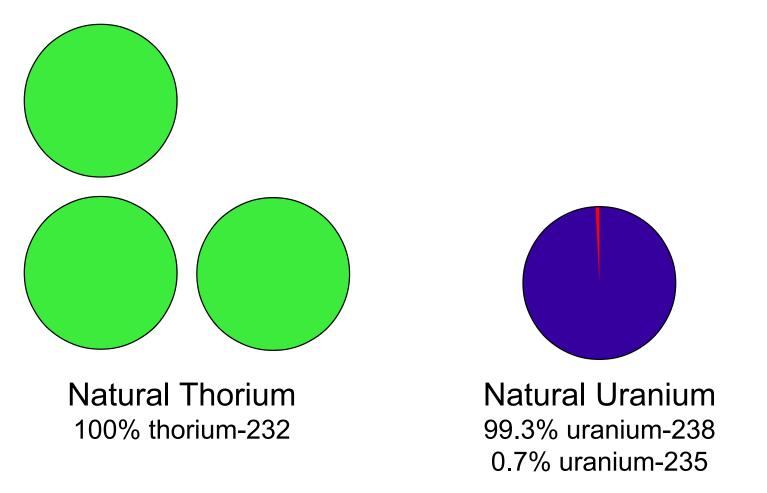


This is incorrect. Nuclear energy is our greatest hope for the future.

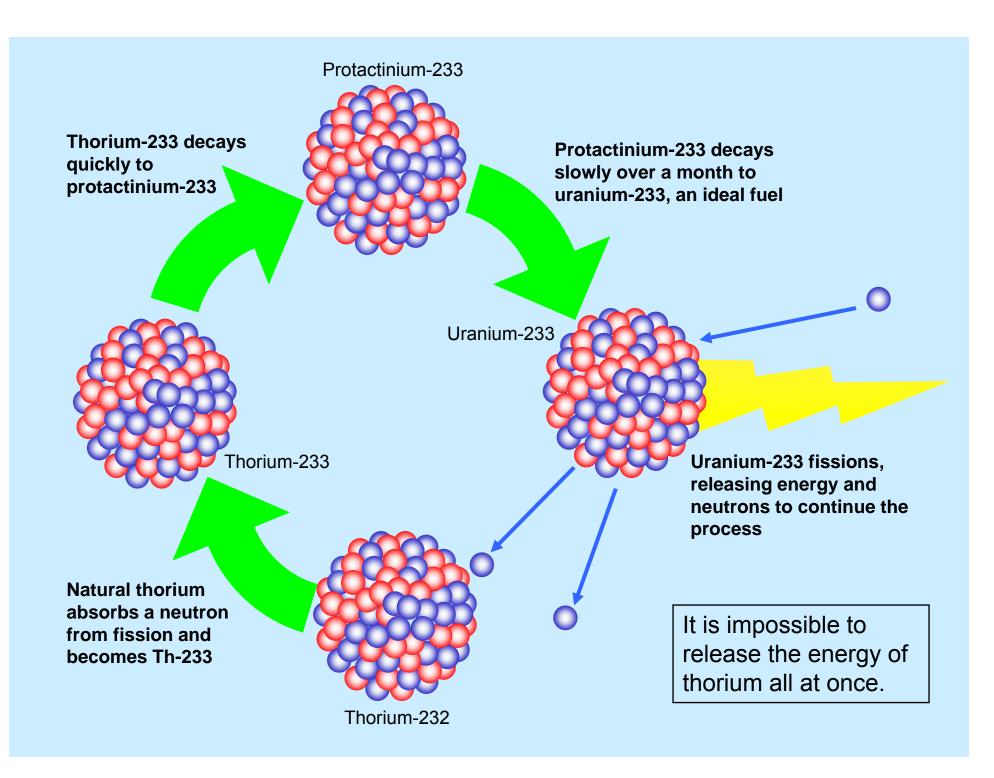




Possible Nuclear Fuels

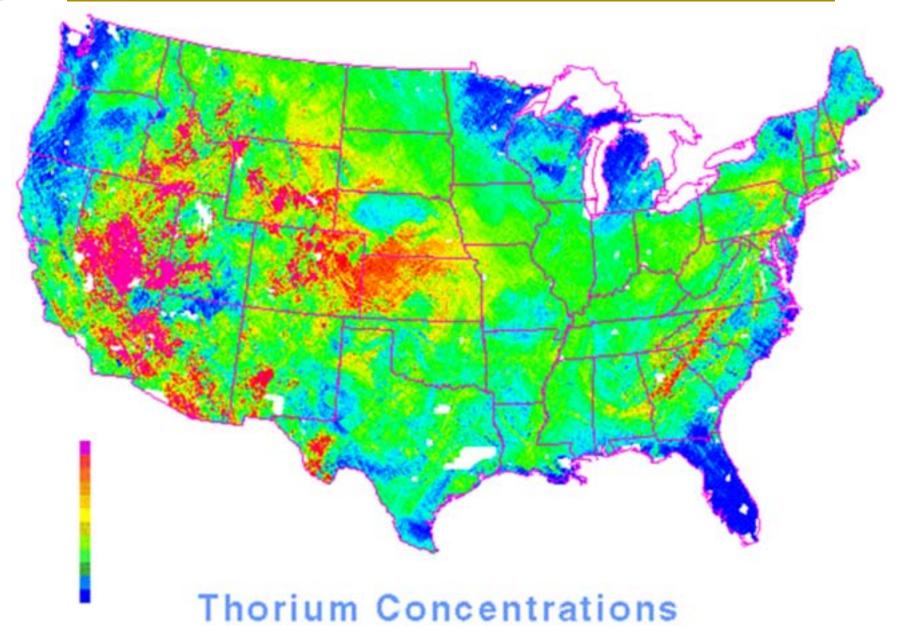


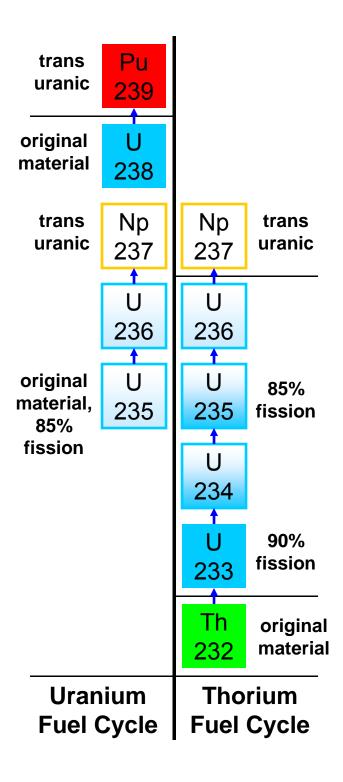
Only a small fraction of natural uranium is fissile. Most uranium and all thorium is "fertile" and can be converted to fissile material through neutron absorption.



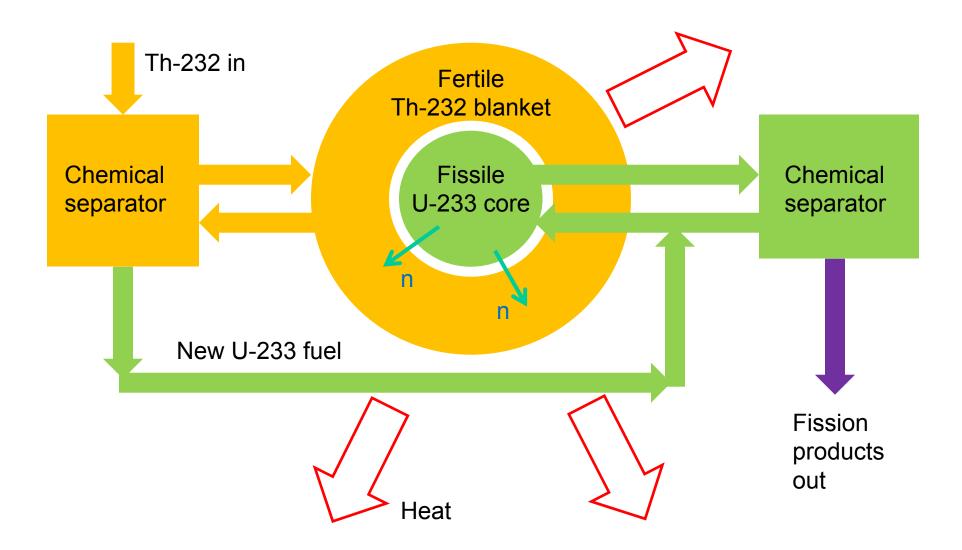


Thorium is a common mineral in the US and world



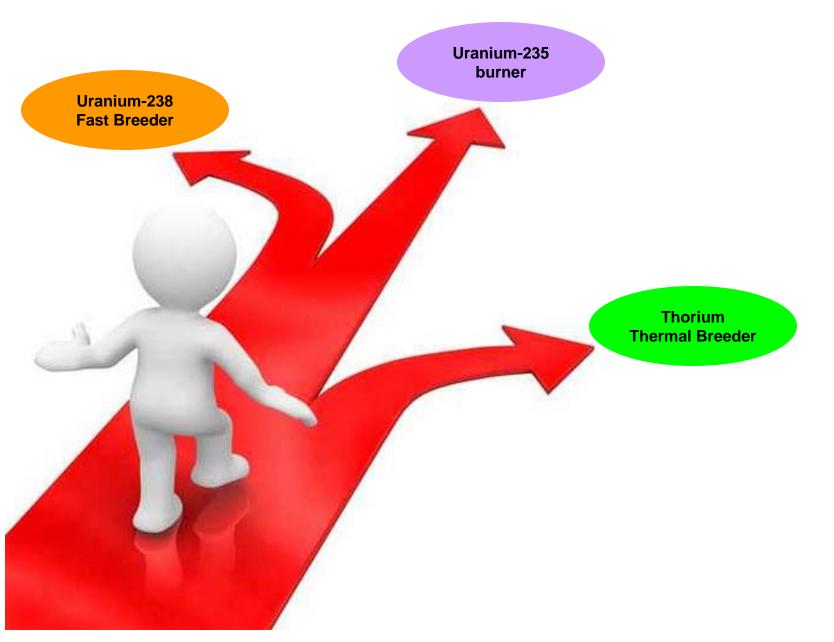








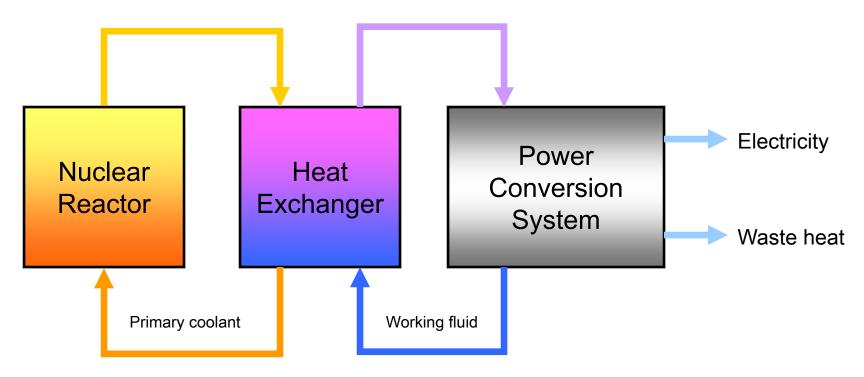
Three Nuclear Options





Fundamental Nuclear Reactor Concept

In its simplest form, a nuclear reactor generates thermal energy that is carried away by a coolant. That coolant heats the working fluid of a power conversion system, which generates electricity from part of the thermal energy and rejects the remainder to the environment.



The primary coolant chosen for a nuclear reactor determines, in large part, its size and manufacturability. The temperature of the coolant determines the efficiency of electrical generation.



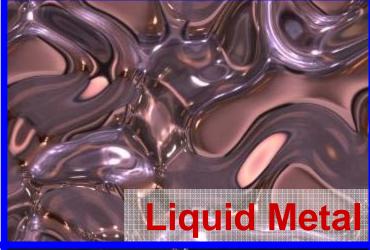
Coolant Choices for a Nuclear Reactor

Pressure

Coolant Temperature

Atmospheric-Pressure Operation High-Pressure Operation

Moderate Temperature (250-350 C)





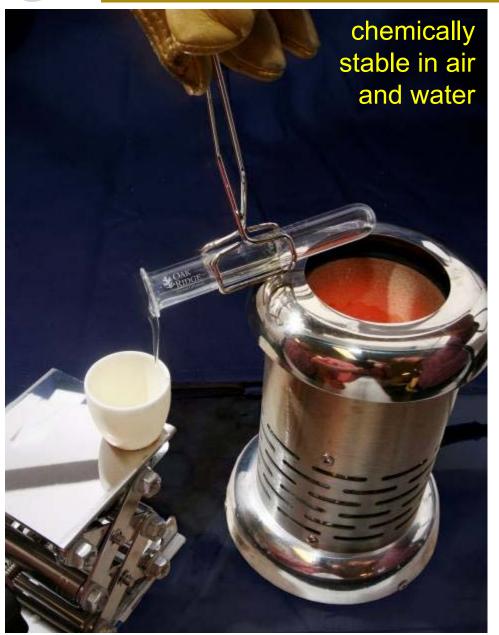
High Temperature (700-1000 C)

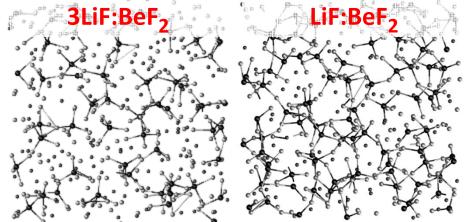


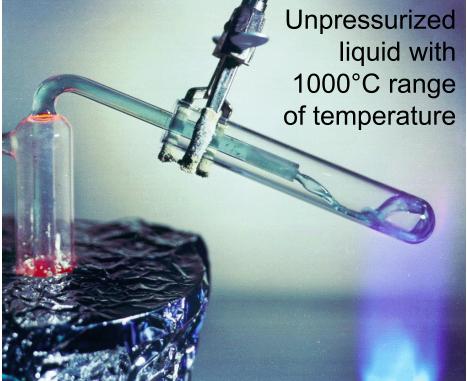




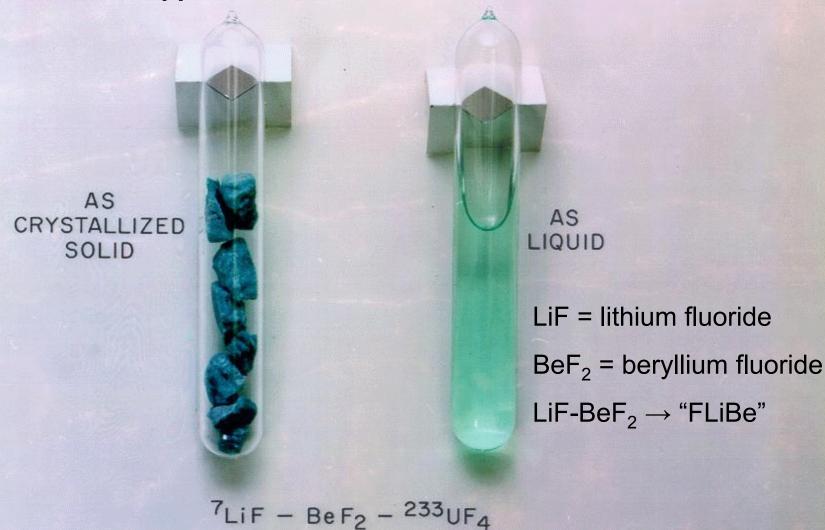
Fluoride salts are an ideal coolant



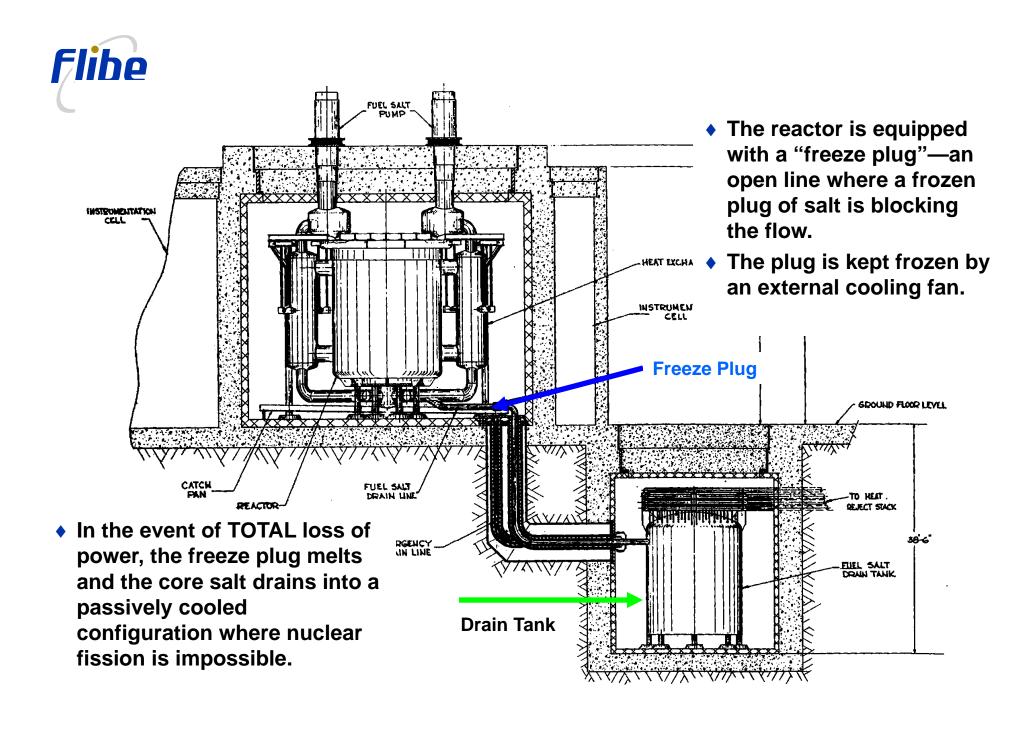




"F-Li-Be" appears to be the best nuclear fluoride salt

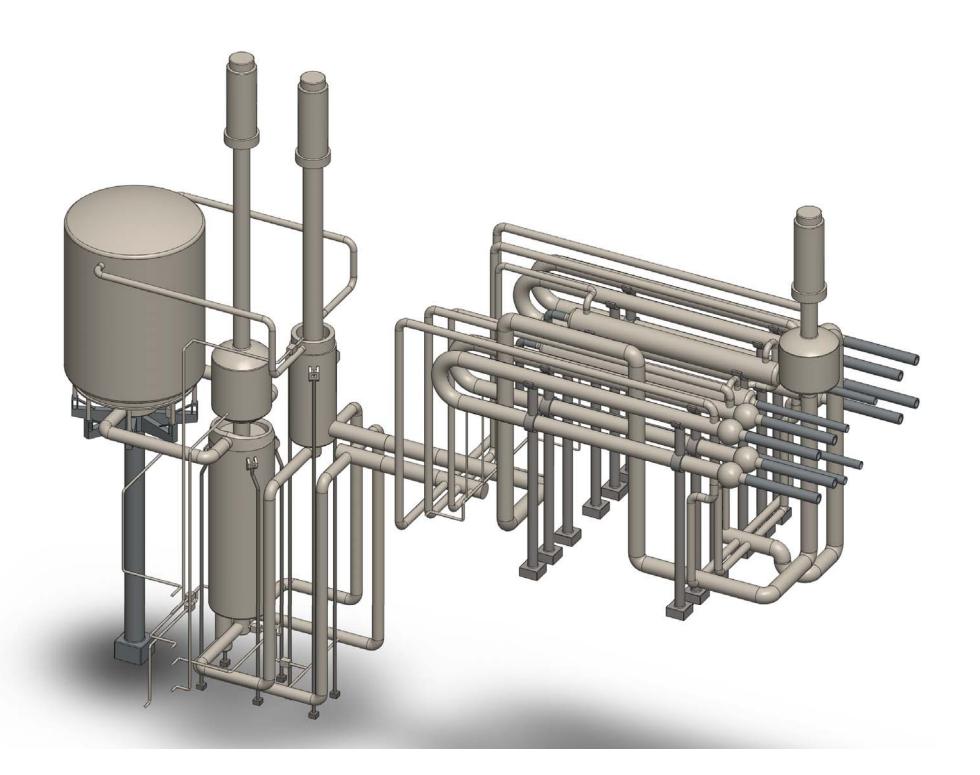


FLUORIDE FUEL FOR A MOLTEN SALT REACTOR





Our mission is to supply the world with affordable and sustainable energy, water and fuel.





Today's Uranium Fuel Cycle vs. Thorium

mission: make 1000 MW of electricity for one year

