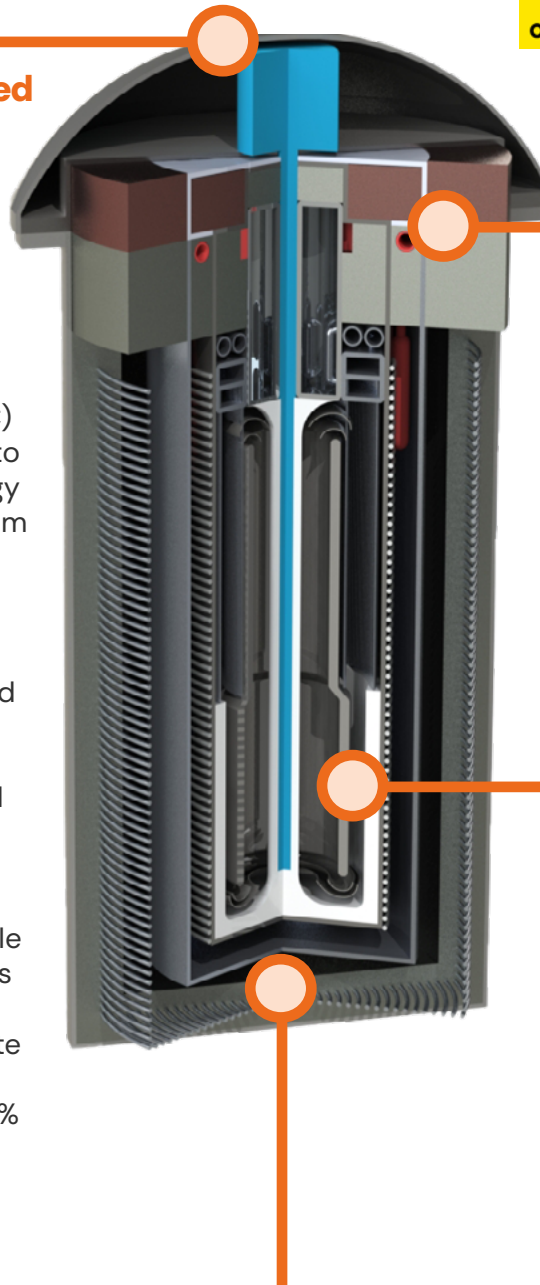




Flexible 24/7 power unleashed for centuries: 250 MWe per STELLARIUM reactor

The first low pressure liquid-molten-salt reactor that renews 100% of its fuel (breed & burn) during its 24/7 operations. The regeneration provides with **20 years of power and/or Heat (600°C) without refueling** and give access to thousands of years of fertile energy reserves (Thorium 232, and uranium 238).

- Fuels are spent fuels + waste from old pressurized water reactors (PWR), multi-recycled in the Stellariums.
- Everything can be refurbished (even vessels), so the site can last 100 years.
- A definitive solution with stable and low cost power bills (PPA's @ 50 €/MWh), with secured business plan for hard to abate data centers, mines, metals, semi-con, Petrochem, and 99% decarbonization.



Safety revolution : < 1 mSv at fence by design

Underground design, no exclusion zone outside of the reactor, no major accident exist (no pressure, evacuation of liquid by gravity, super fast counter reactions of the liquid salts, passive heat evacuation)

→ Can deploy in all industrial and urban sites

Simpler + safer = low cost

The patented fission chamber operates by natural convection, without pumps. Its physical counter-reactions ensure self-stabilizing in a matter of seconds, providing ultra fast & safe power ramp up's, ideal to stabilize AC grids quickly. From 0 MWe up to 250 MWe faster than gas powerplants!

Produced in series by an industrial Alliance

- Reactors will be produced in series by a **strong european industrial alliance** : business shared with Technip (EPC, heat), Schneider-Electric (power), Orano (fuel), Stellaria (core molten salt system). Each team member is in charge of the its own part & to master the built of the SMR.
- 2 reactors per year by 2035, and 8 per year by 2040, bringing 1.5 B€ for Stellaria @ high EBITDA. Each unit of 250 MWe is around 850 M€, LCOE is ~50 €/MWh.
- Conceptual-design (APS) is done (august 2024), with very positive feed back for safety authorities

SEED 15 M€ closing by march 25, to launch the world's
STAGE: first fast-breeding-liquid-fueled prototype in history