Elegantly simple, remarkably invisible



We're making nuclear simple.

Simple means cost-effective.

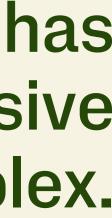


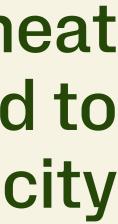


Conventional nuclear has become too expensive and too complex.

Cost of nuclear heat is 1/3 compared to **new** nuclear electricity

11.2.2025

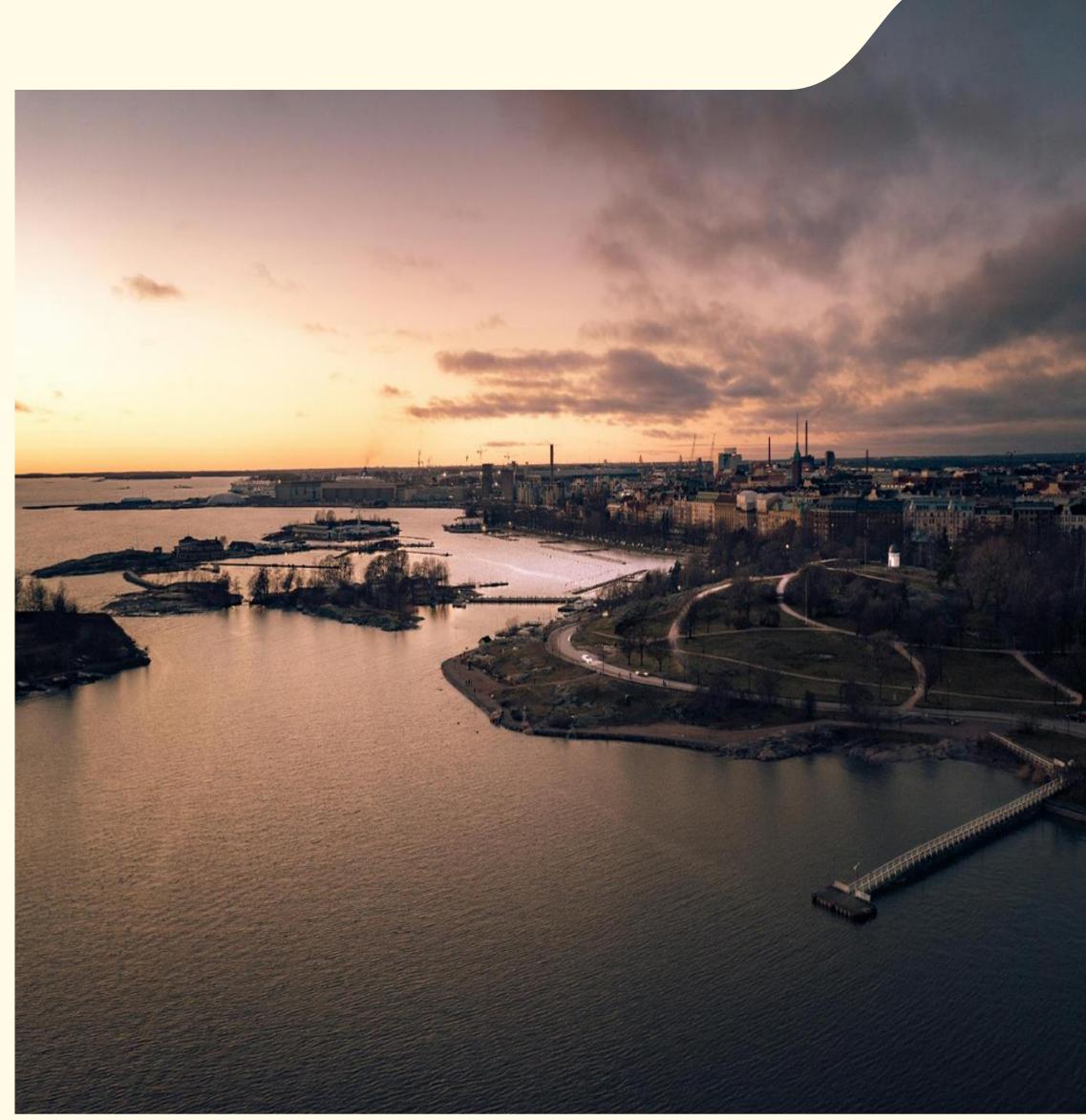






Turning possibility into progress

- A Finnish nuclear technology company – founded in May 2023
- Spinoff from Technical Research Centre of Finland (VTT) – with VC backing (Yes VC and Lifeline Ventures)
- Staff: 25 professionals from industry, business, research and regulator
- 200 professionals working on the development of the design (VTT, Tractebel, Sweco...)





Our product

Nuclear heating units

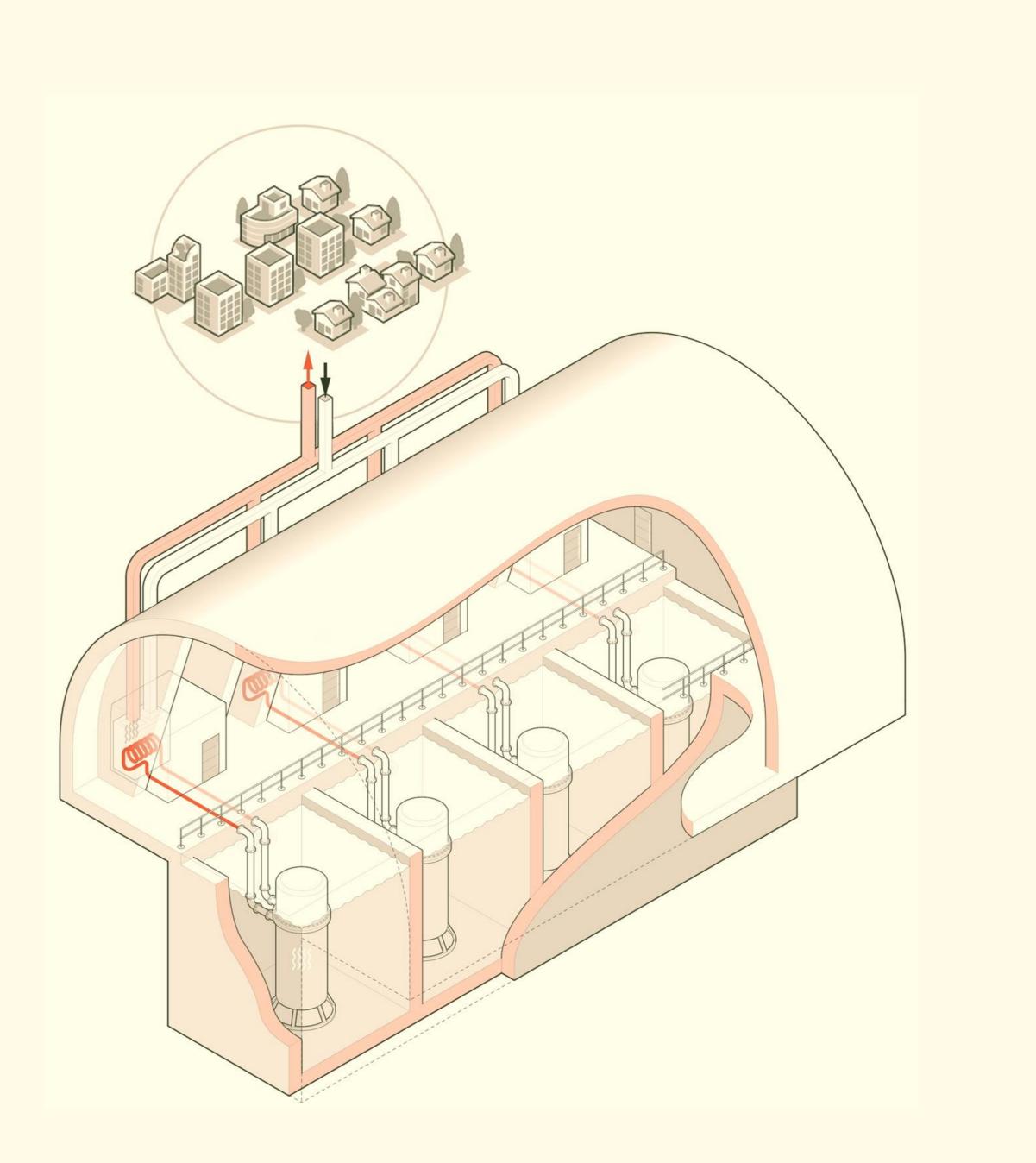
Consists of one or more 50 MW units

02

 $\mathbf{01}$

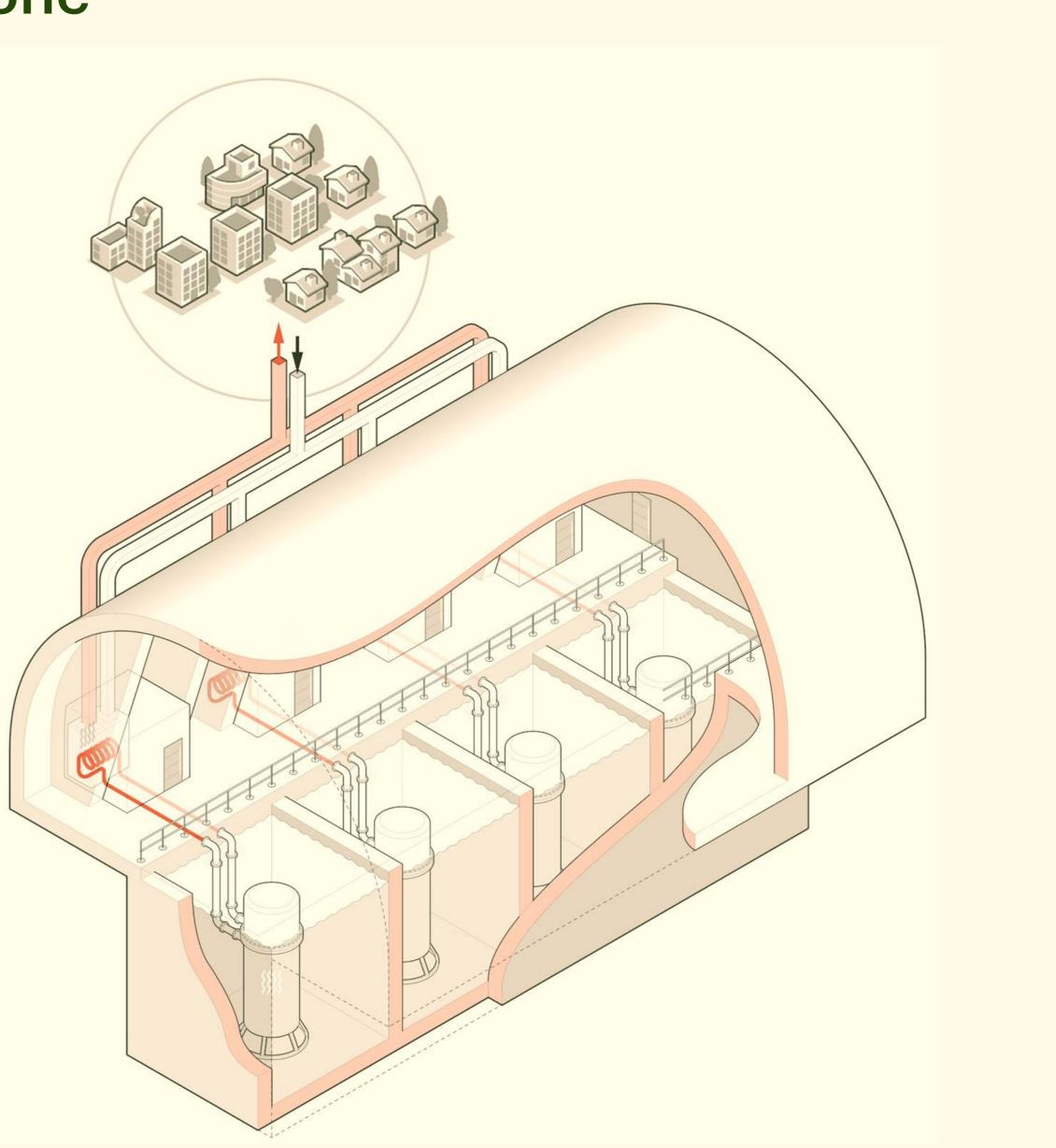
Business model – construction, operation and maintenance

We offer our clients turnkey solutions for their heat production without the need for them to build extensive nuclear organizations



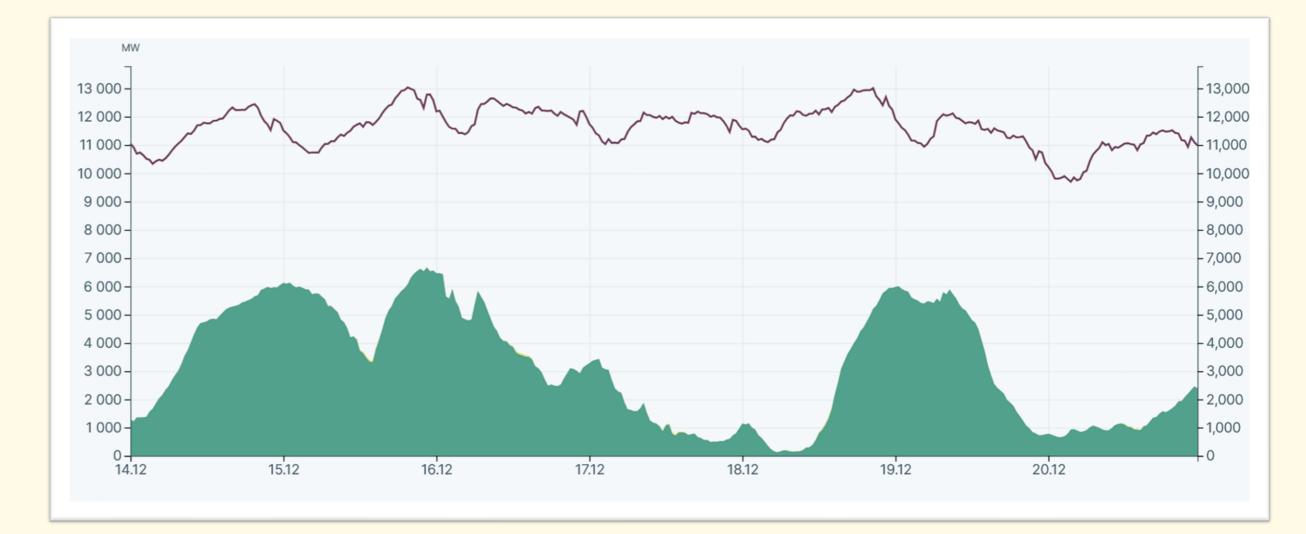
Nuclear heat is cost competitive from day one

- Nuclear heat is simple, scalable and <u>highly</u> competitive. LCOE = <40€/MWh
- Lower operating temperatures and pressures, no need for a turbine -> lower building costs
- Cost of producing nuclear heat is 1/3 compared to **new nuclear** electricity
- Competitive compared to competing energy sources (biomass and fossil fuels)
- R&D-investment support for FOAK Support mechanisms should be technology neutral



Nuclear heat supports electrification efforts

- Nuclear energy and wind power are the only truly scalable sources of energy in the Nordics
- Wind power is a great asset but intermittent. Heat demand is often highest during cold snaps when wind production is low
- Electricity demand is expected to rise significantly and is needed to decarbonize industry and transport
- SMR heat = less need for electricity in heating

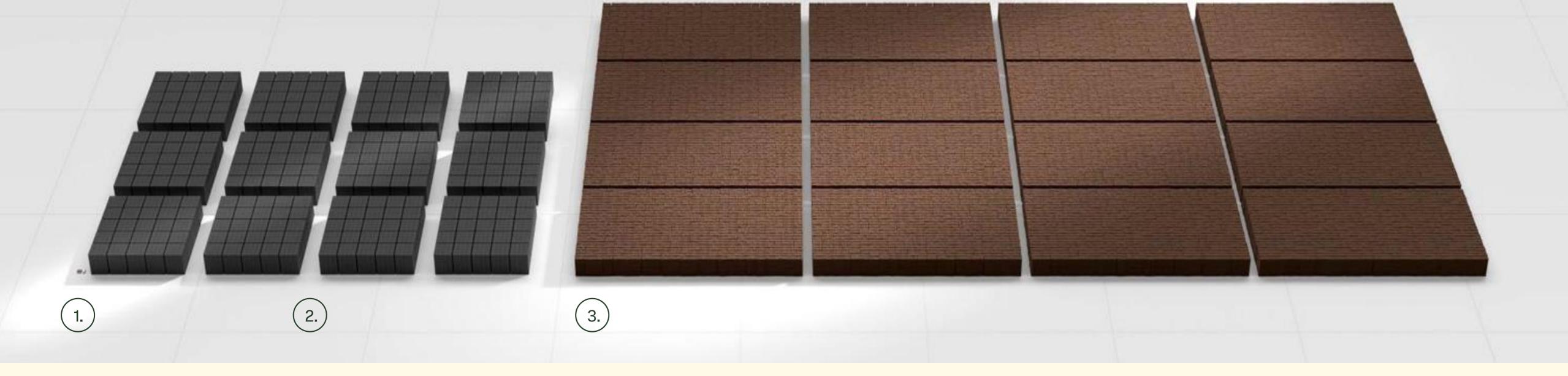


Wind power production in Finland 14.12.2024 – 21.12.2024. Source: Fingrid



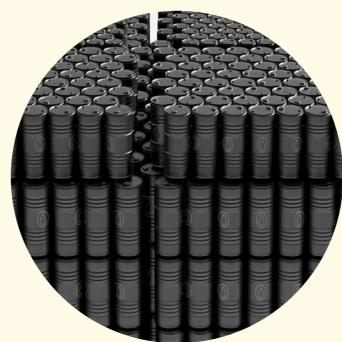


Nuclear energy can help decouple energy production from the use of natural resources





Fuel consumed by a single reactor over it's entire lifetime would sit inside two parking spaces.



2.

It would take 12.5 million barrels of oil to produce the same amount of energy that a single LDR-50 produces during its lifetime.



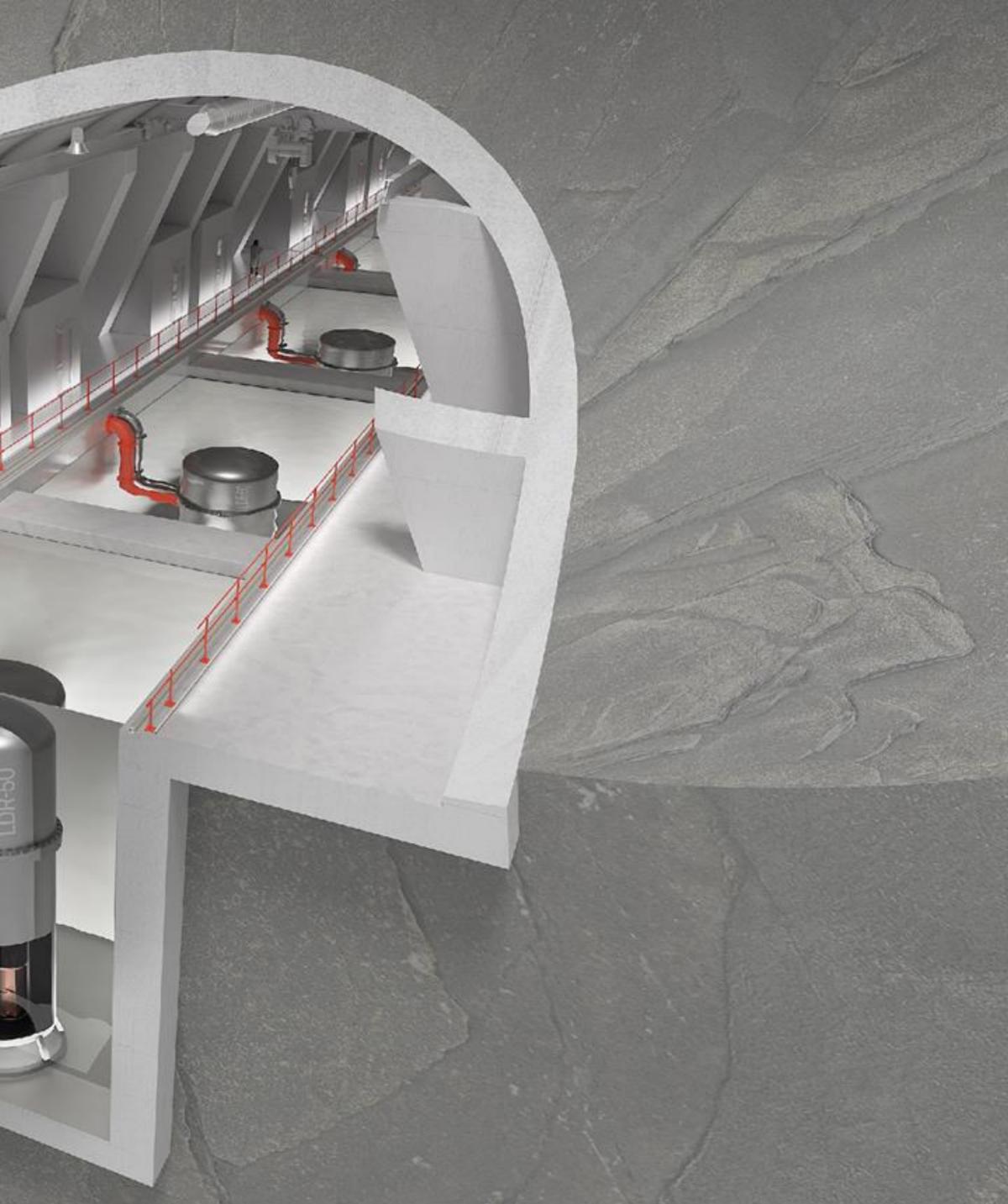
3.

One individual LDR-50 unit reduces consumption of biomass by ~200 000 m3 annually





Unmatched level of energy security



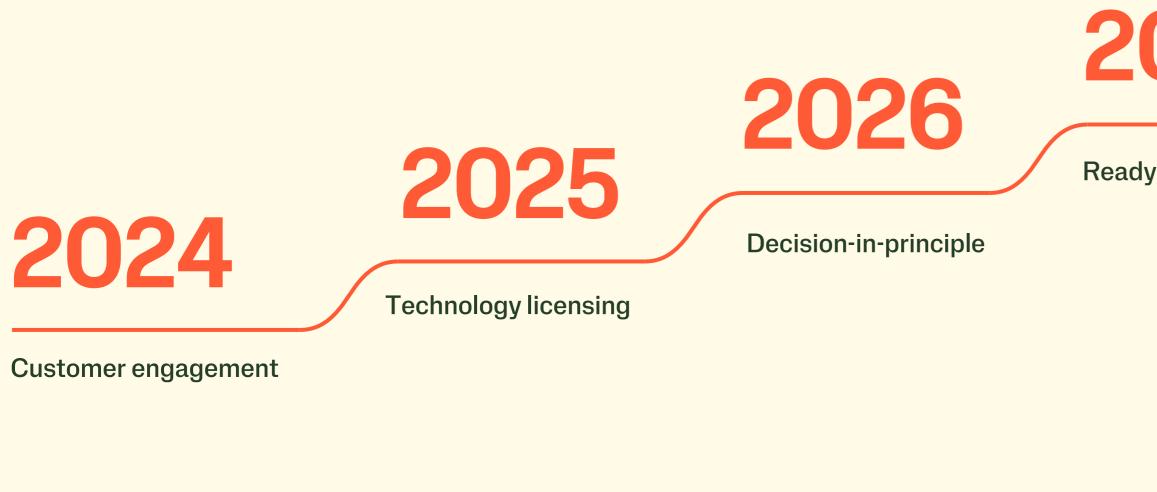
Projects are going ahead

- Environmental impact assessment and zoning processes to start in winter 2025 in Kuopio
- Steady Energy is looking to offer Helen up to 10 units in the forthcoming tendering process
- Potential sites being explored with Keravan Energia
- Activities in Poland, Sweden and the Baltics



HELEN

Towards first commercial plant



Decision on R&D pilot plant investment Construction start of the pilot plant

Safety demonstration experiments with R&D pilot plant



Ready-to-build

Decision on the first commercial plant investment

Construction and building permits

First commercial plant in operation

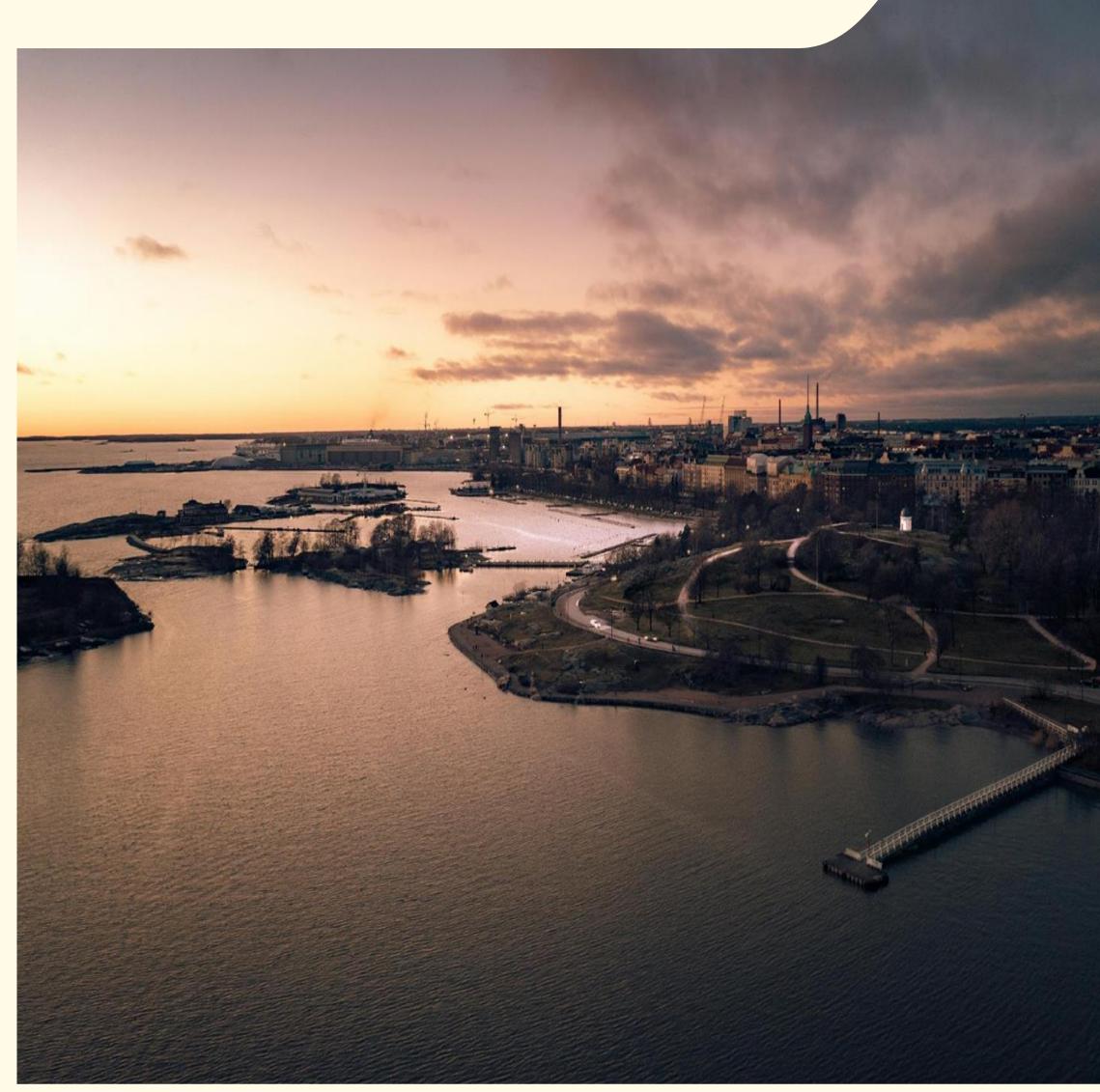
Private and confidential





The potential of SMR heating is enormous

- Finland is becoming a global pioneer in SMR development
- SMR heat is cost competitive from day one
- Reduces need for fossil fuels and biomass
- Supports electrification efforts





Thank you!

Steady Energy

