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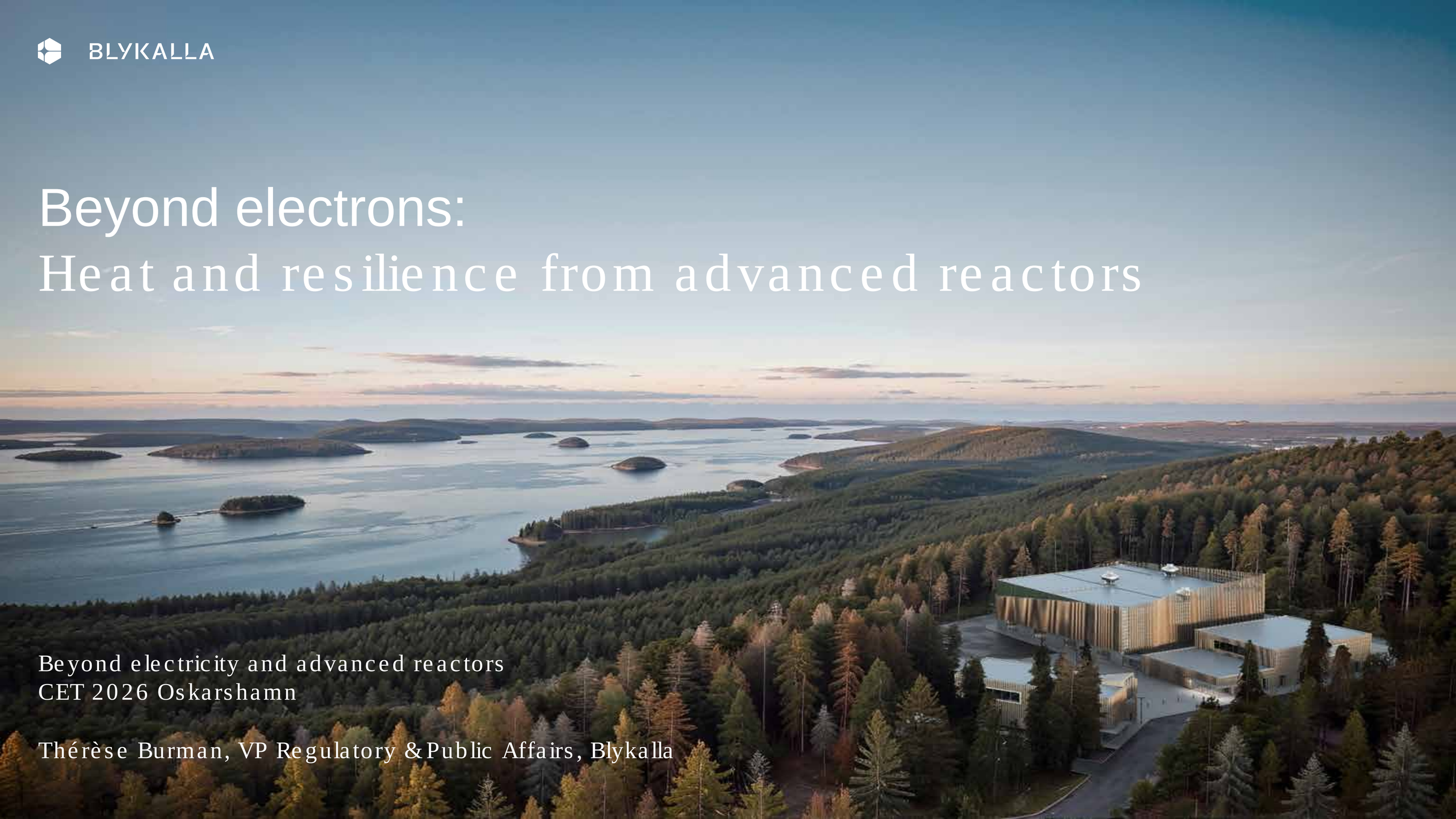
Beyond electrons:
Heat and resilience from advanced reactors



Beyond electricity and advanced reactors
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Small enough to be built in a factory. Big enough to power data centers.

SEALER's compact, modular 55 MWe design means reliable baseload electrons can go wherever the load is, including the data centers driving today's fastest-growing power demand.

SEALER: from concept to execution

01

Norrsundet

Application submitted

02

Tierp/Untra

Application submitted

03

United States

Expansion underway

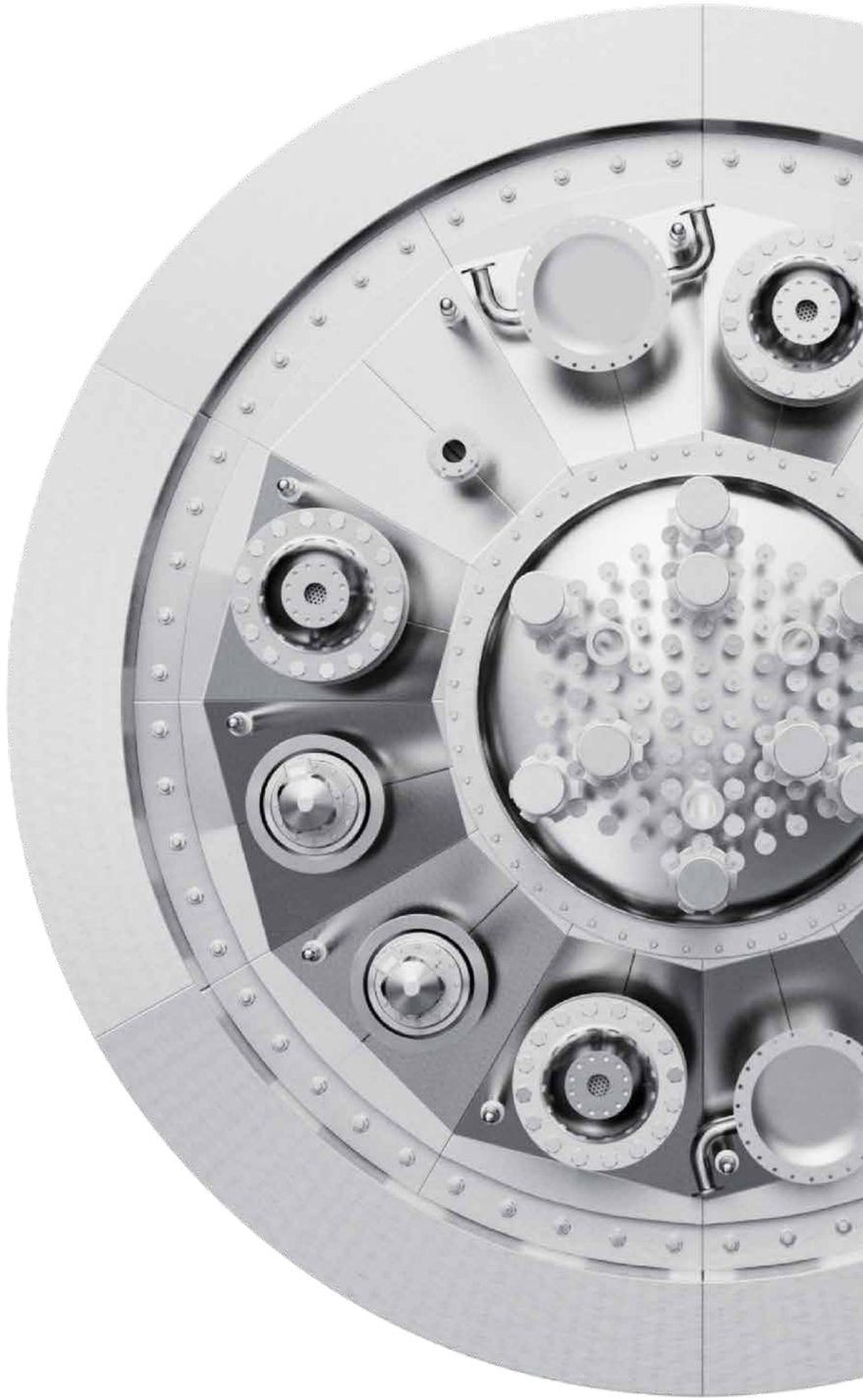
Beyond electrons, SEALER adds two more values

High-temperature process heat	Steam that industry can use directly - not just electrons from a turbine.
System resilience	Capacity and grid stability the system can't source from batteries alone.

SEALER delivers industrial-grade steam

530°

outlet steam temperature - opening industrial-grade heat applications beyond power generation



Where that heat goes

01

Hydrogen

High-temperature steam improves the economics of steam reforming and electrolysis-assist processes.

02

Pyrolysis

Process heat for plastics and biomass pyrolysis - turning waste streams into usable feedstock.

03

District heating

Waste heat delivered to the local grid where demand exists - a direct community benefit.

The second value beyond electrons:

Resilience.

Storage alone can't carry the grid

870

battery parks the size of the “Globen arena” - just to store one day's output from one large reactor

Batteries solve short-term imbalances very well. They are not a substitute for the capacity and inertia a large, dispatchable unit provides - which is exactly what's lost if one fails.

Advanced reactors add resilience precisely where batteries run out of runway.

From dispatchable power to strategic autonomy

01

Dispatchable, weather independent baseload

Decentralized weather-independent electricity tailored to energy intensive industries - that can be spread out, placed underground and sited close to demand - complementing renewables and diversifying energy supply. Multiple smaller units provide built-in redundancy, the loss of one unit does not knock out the supply

02

Strategic autonomy and supply chain

Fostering competency and developing the technology in Sweden, with a largely European supply chain, strengthening Europe’s competitiveness, mitigating import dependencies and reinforcing the strategic autonomy of Europe

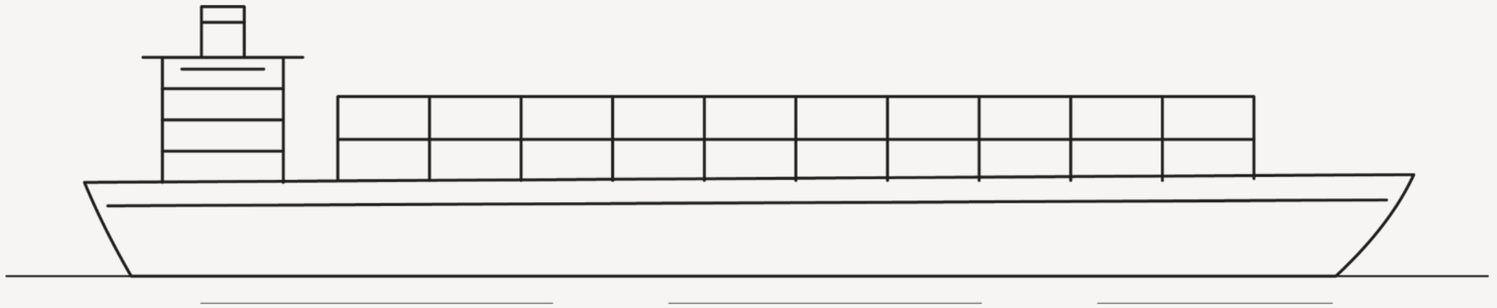
03

Transatlantic industrial cooperation

Concrete experience from partnering with US companies to turn a strained political relationship into concrete industrial cooperation, strengthening the alliance’s collective defence, providing a solution to transatlantic energy security and a transferable lesson for others trying to do the same

From land to sea
Marine applications

Our lead-cooled SMR is one of the three reactor concepts selected for NuProShip I, a Norwegian project exploring nuclear power generation for maritime transport



Three values, one reactor

Electrons

Compact, dispatchable power today - including for data centers, where demand is growing fastest.

Heat

530°C steam opens hydrogen, pyrolysis, and district heating applications electricity alone can't reach.

Resilience

Capacity and inertia the grid needs when the wind doesn't blow and batteries run out.

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Baseload
by Blykalla