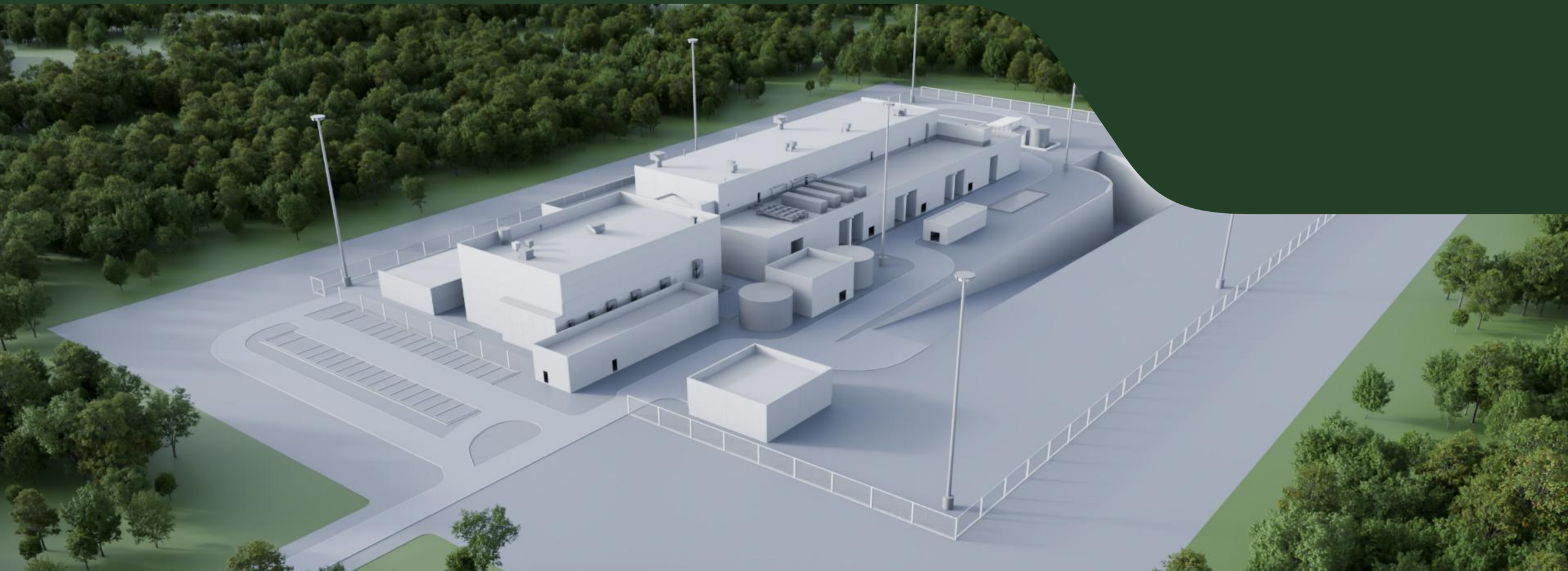
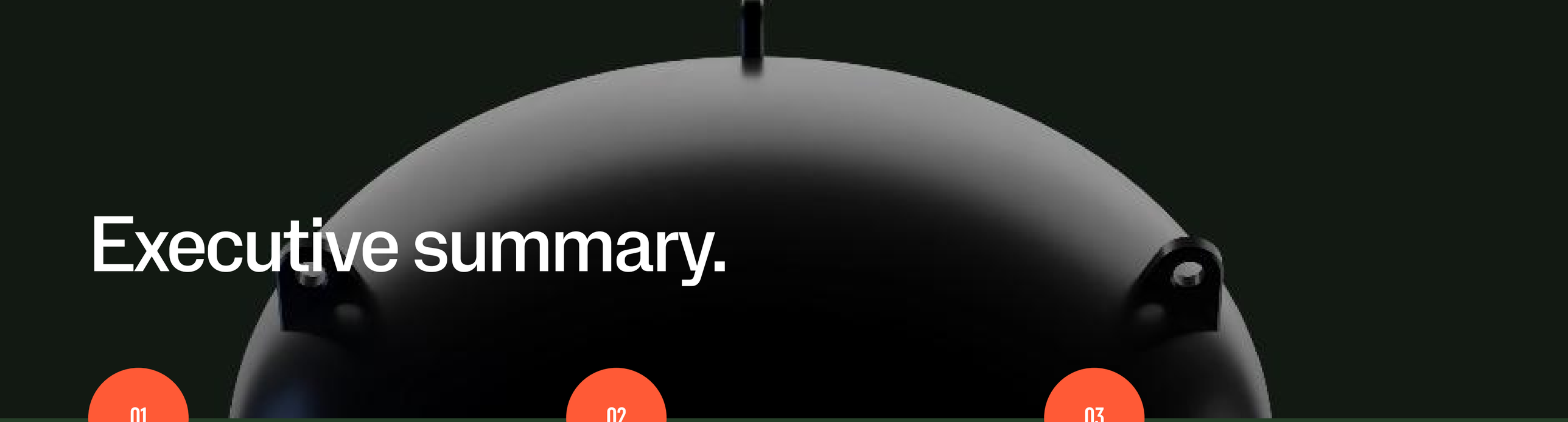
Preparing for nuclear heat

Nuclear heat development roadmap.

Steady Energy





Executive summary.

01

A structured process

Evaluating nuclear heat is not a single decision but a structured process. Replacing a major heat production asset is one of the most significant strategic decisions a district heating company will make. From first discussion to pre-investment readiness, the evaluation process typically spans around four years.

02

Early exploration

Early exploration can establish whether nuclear heat is worth pursuing within months, while site selection, permitting, environmental assessment and commercial development take place over several years. Each stage progressively increases the level of detail and commitment.

03

Who is it for

This roadmap is intended for district heating utilities, municipal energy companies, executive management and boards, technical and project teams, strategy and business development professionals, and local authorities participating in long-term energy planning.

The 4-year evaluation roadmap.

01 Exploration stage

- Understand your heat demand and long-term goals
- Explore how nuclear heat could fit your network
- Preliminary LCOH analysis
- High-level risks and opportunities
- Agree on next steps

0-3 months

02 Pre-feasibility

- Define initial project concept and schedule
- Map and evaluate potential sites
- Assess regulatory and permitting requirements
- Analyse feasibility
- Prepare communication and engagement plan

Up to 12 months

03 Pre-planning & feasibility

- Land-use planning and EIA
- CAPEX, OPEX & LCOH
- Define owner/operator capabilities
- Define commercial/delivery model
- Develop project plan & responsibilities
- Prepare terms for pre-investment phase

24-36 months

Exploration	Pre-feasibility	Pre-planning & feasibility	Pre-investment	Project delivery	Commissioning
Is nuclear heat worth pursuing?	What could the project look like?	Can we establish a viable project?	Prepare for the investment decision	Detailed design, procurement and construction	Heat production

Business Models.

01

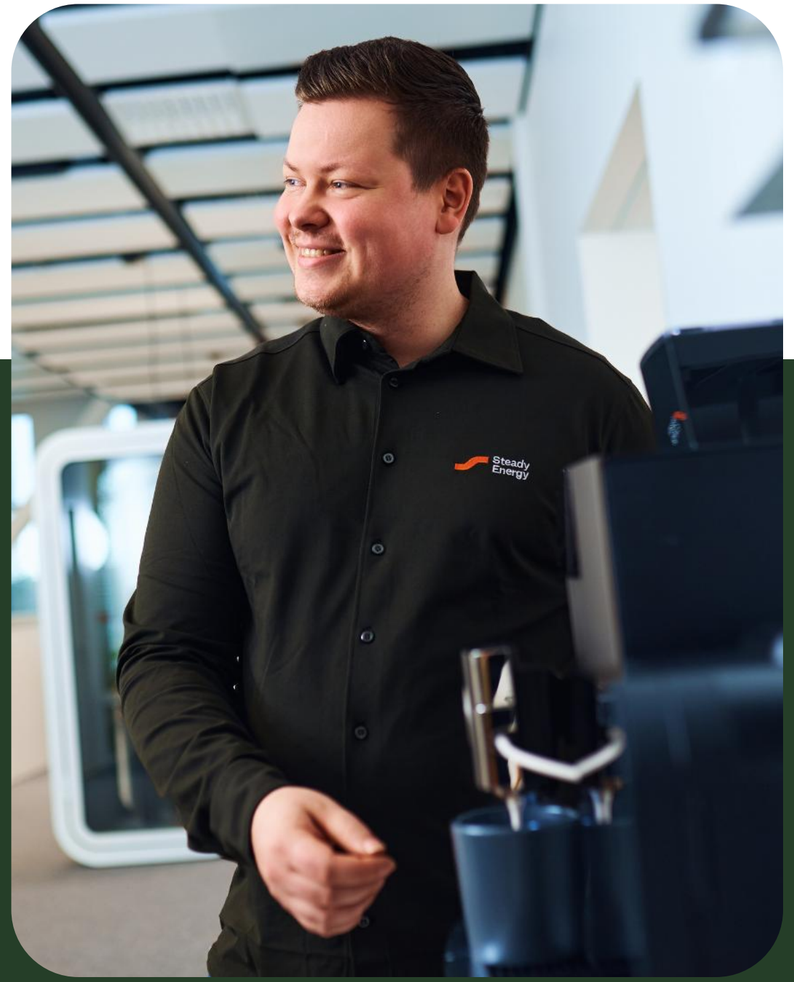
Turnkey – own and operate

Steady Energy delivers the nuclear heating plant as a turnkey project. The customer invests in and owns the facility, while Steady Energy and its partners support the project from development and licensing through construction and commissioning.

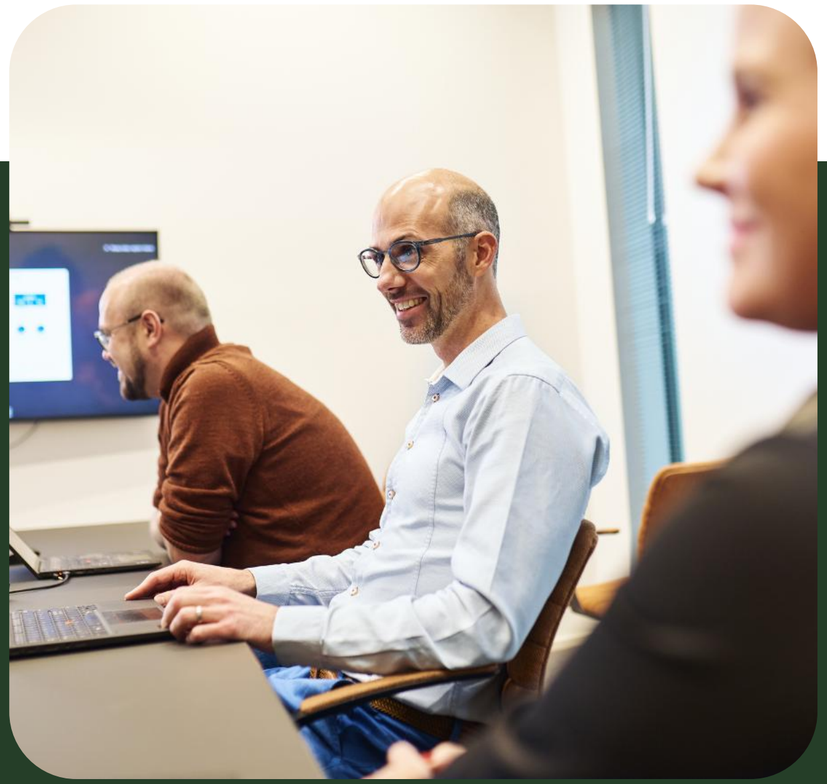
02

Heat-as-a-Service

Steady Energy develops, finances and delivers the nuclear heating plant. The customer purchases heat under a long-term agreement, avoiding the upfront investment and responsibilities associated with owning the facility.



How to get started.



Book a discovery call

Understanding your network

Decarbonizing heat isn't just about technology — it's about making the right choices for the right place at the right time. Every city, district, and energy system is unique, with its own network, demand patterns, and future ambitions. The next step is understanding what works in your specific network.

Case study

The case study is often based on a description of the client's existing heating system, typically including historical heat consumption data, potential heat production, local heat market dynamics, and other factors relevant to simulating or modeling the operation of the LDR-50 SMR within the client's heat network.

Meet our team.



Matti Pentti
Chief Commercial Officer
matti.pentti@steadyenergy.fi



Markku Suopanki
Head of Sales
markku.suopanki@steadyenergy.fi



Alice Neffe
Country Manager, Poland
alice.neffe@steadyenergy.fi



Anton Steen
Country Manager, Sweden
anton.steen@steadyenergy.fi

The future of heat is steady.

Start your city’s nuclear heat plan today by requesting a case study or speaking to our team.

www.steadyenergy.com

