



# Building the Nordic network for carbon-negative energy

Renewable energy and biochar solutions  
for a fossil-free future

WHO WE ARE

# This is Nordic BioPower



## Driving the Nordic transition to carbon-negative energy

- A Nordic company promoting circular, renewable energy
- We build, own and operate renewable energy and biochar plants throughout the Nordic region.
- Our facilities convert forestry and agricultural residues into pellets, wood chips, and biochar.
- By combining production streams, we achieve high energy efficiency and lower emissions.
- Headquartered in Sweden, part of the Averra Group AB



## THE OPPORTUNITY

# Pellets

**Proven, in demand, and in short supply**

- Europe's pellet sector is characterised by record-high demand and rising but insufficient production.
- The EU's total wood pellet consumption in 2025 is projected to reach 23.5 million metric tonnes, up from 22.6 million in 2024(1).
- Production in the EU is expected to increase to 20.5 million metric tonnes in 2025, up from 19.9 million tonnes in 2024(1).
- The EU biomass pellet market is valued at USD 3.2 billion in 2025, forecast to reach USD 5.7 billion by 2035, growing at a 6.1% CAGR(2).



## THE OPPORTUNITY, CONTINUED

# Biochar

## From carbon sink to industrial strength

Biochar is emerging as a powerful climate tool – storing carbon, enhancing soil quality, and reducing reliance on fossil fuels in industry.

- EU demand: Estimated at 160,000-170,000 tonnes by 2025, with growing use in agriculture, water treatment and metallurgy (1).
- Impact: Biochar sequesters up to 2.5 tonnes of CO<sub>2</sub> per hectare annually (3).
- European production: Expected to reach 168,770 metric tonnes in 2025, up 24% year-on-year (2).
- Adoption: 65% of companies in the EU now use biochar in carbon strategies (4).



THE OPPORTUNITY, CONTINUED

# Wood chips

## Fueling growth naturally

Wood chips are becoming a key fuel in Europe's shift to renewable energy. Demand is rising across households, district heating systems, and energy plants.

- Strong market momentum, with an expected CAGR of  $\approx 10\%$
- Increasing adoption in residential heating and district energy
- Supports regional energy security and reduced fossil dependency
- With secure feedstock access and scalable delivery capacity, Nordic BioPower is well positioned for continued growth.

## OUR CIRCULAR MODEL

# Our circular system



We combine pellet and biochar production in one system

Excess heat from biochar production dries pellet raw materials

This integrated process saves 10-15% of the energy required per tonne of pellets produced.

Shared workforce, raw materials, supply chains, logistics, and infrastructure enhance overall competitiveness.



## OUR FACILITIES

# Davidstad - Pellets

## Expanding circular bioenergy in Finland

- Produces wood pellets and wood chips under SISU Energy brand.
- The site was revitalised in 2024 following its acquisition from LPT Oy.
- Current capacity: 50,000 tonnes/year > 150,000 tonnes/year by the end of 2025.
- Employs 23-25 people, serves both consumers and businesses
- Biochar line being commissioned, operations start H1 2026.
- 10-15% energy saved via integrated biochar-pellet process.



## OUR FACILITIES

# Davidstad - Biochar

## Scalable, synergistic, circular

- Biochar production integrated with existing pellet operations
- Shared workforce, raw material flows, logistics, and infrastructure
- Pyrolysis excess heat used to dry pellet feedstock
- Pellet residues (e.g. bark) fuel the biochar dryer – fully circular
- 25% labour cost savings vs stand-alone plants



### Stage 1

Start-up Q4 2025  
2,000  
tonnes/year



### Stage 2

Second retort Q2 2026  
5,000 tonnes/year



### Stage 3

Full expansion by 2027  
19,000 tonnes/year



OUR FACILITIES

# Höganäs

## Industrial-scale biochar

- Existing facility ready for restarting biochar production in Q1 2026.
- Industrial-scale output: 5,000-8,000 tonnes/year
- Energy output: 20-25 GWh
- Expected turnover: 60-90 MSEK, depending on product mix

## PRODUCTS AND MARKETS

# Bio based products for real-world impact



## Pellets

Renewable fuel for heating  
homes, industries and  
communities



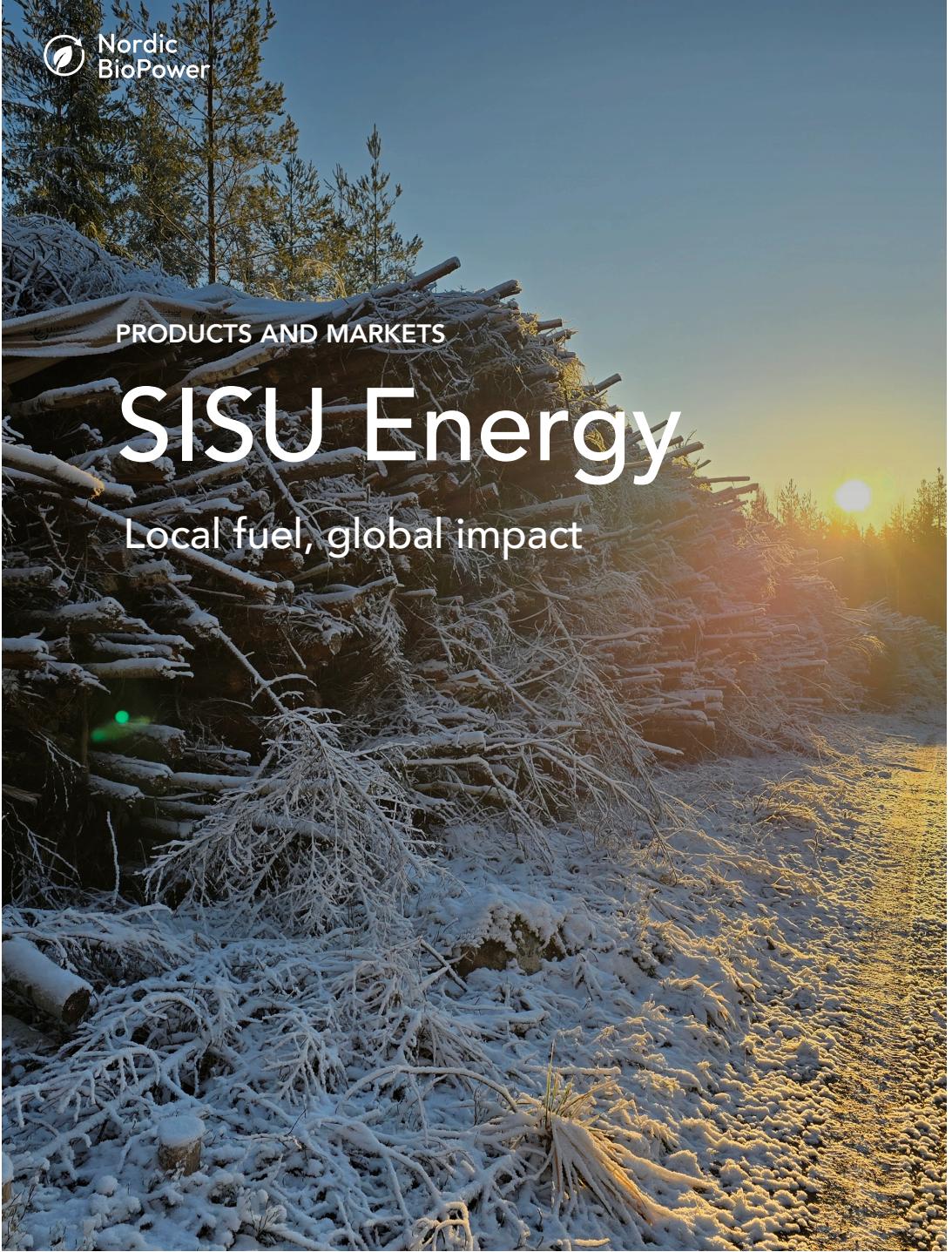
## Wood chips

Local, carbon-neutral energy  
from forestry residues



## Biochar

Long-term carbon storage, soil  
improvement and fossil-free  
industrial use

A photograph of a large pile of cut logs covered in a thick layer of white snow. The logs are piled high, creating a textured, undulating surface. The scene is set against a backdrop of a clear blue sky and a setting or rising sun, which casts a warm, golden glow over the snow and the tops of some evergreen trees in the background.

PRODUCTS AND MARKETS

# SISU Energy

Local fuel, global impact



Products marketed under  
SISU Energy (Europe) and  
SISU Pelletti (Finland)

Domestic, sustainably  
sourced, carbon-smart  
energy

[Web shop active](#)  
[in Finland](#)

Web shop launching  
in Sweden Q1 2026

CLIMATE IMPACT

# Removing carbon powering tomorrow

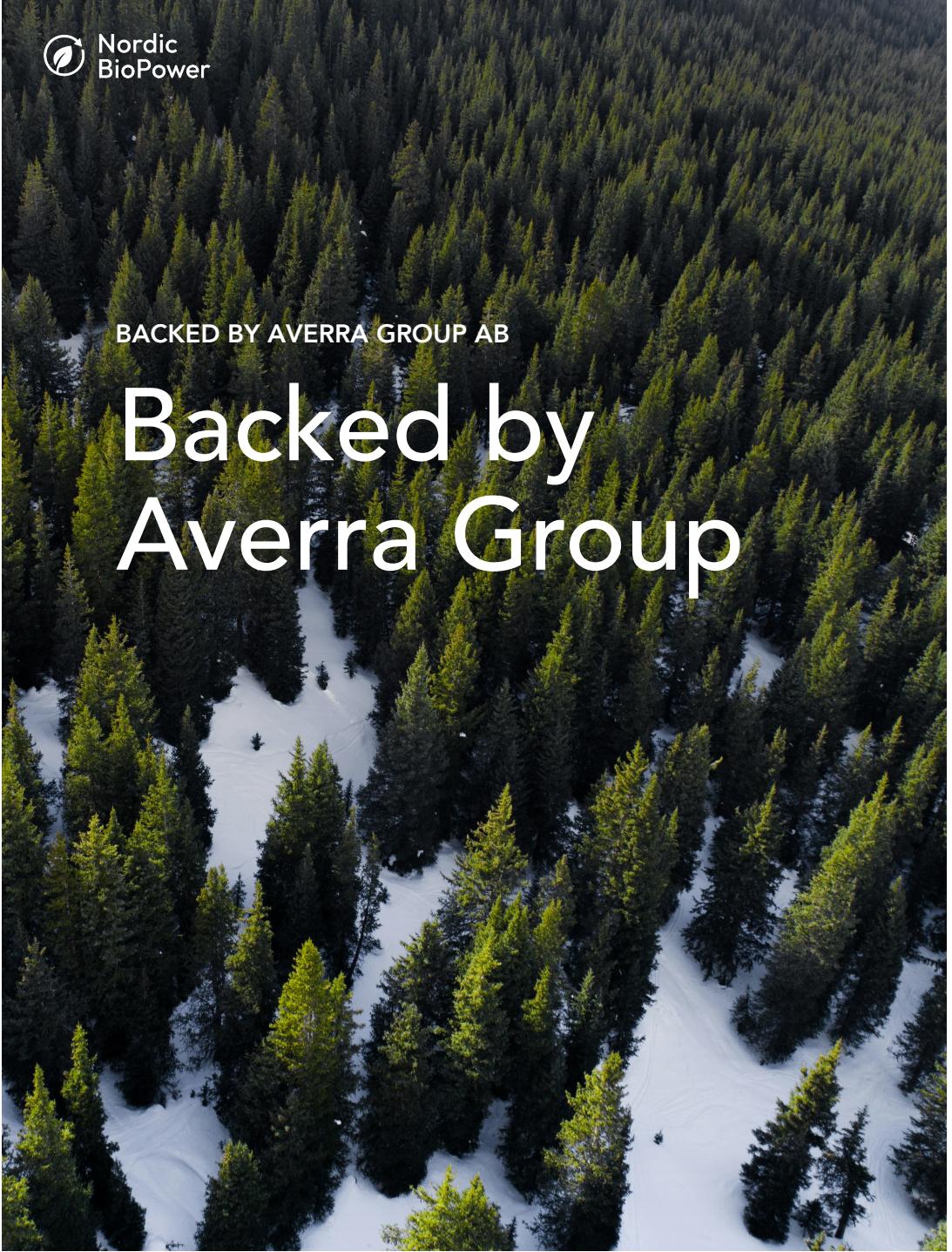


Biochar stores carbon  
for hundreds of years

Replaces fossil reductants  
in the steel and  
construction industries

Enables measurable  
carbon-removal credits  
aligned with EU  
frameworks

Each tonne of biochar  
can remove 2-3  
tonnes of CO2-eq.

A high-angle aerial photograph of a dense forest of coniferous trees, likely pines or spruces. The ground between the trees is covered in a layer of white snow, creating a pattern of dark green and white. The forest extends to the horizon.

BACKED BY AVERRA GROUP AB

# Backed by Averra Group

## Built for growth

Averra Group is a Swedish industrial group that drives industrial transformation in Nordic renewable energy and sustainable infrastructure.

Combines industrial know-how with re-engineering of existing assets

Provides financial strength and strategic direction for growth

LOOKING AHEAD

# Scaling carbon-negative energy across the Nordics

A photograph of a snowy landscape at night. In the foreground, several snow-covered trees stand on a snow-covered ground. The sky is dark, but a vibrant green and yellow aurora borealis (northern lights) is visible, stretching across the horizon. The overall atmosphere is cold and serene.

## A Nordic network of circular energy sites

Long-term goal: a network of combined facilities producing both biochar and pellets across the Nordic region.

- Q1 2026 Höganäs biochar production restarts
- H1 2026 Davidstad biochar line starts
- Q1 2026 Web shop launch in Sweden



[www.nordicbiopower.com](http://www.nordicbiopower.com)