

INVEST IN Pyrolysis Biorefinery

SUOMUSSALMI
FINLAND



We have conducted a preliminary techno-economic assessment combining extraction and pyrolysis as a potential investment opportunity in the Kurimo region of Suomussalmi. The area holds significant volumes of underutilized bark-based side streams from the forest industry. This presents a unique opportunity to advance circular economy solutions and green industry applications. We warmly welcome investors, decision-makers, and regional developers to join us in making Suomussalmi a leader in pyrolysis-based biorefining and sustainable bio-based innovation.



TECHNICAL DETAILS

Location: Suomussalmi, Kurimo

Production technology: Integrated bark extraction + fast pyrolysis

Feedstock: Scots pine bark (approx. 80,000 tonnes/year, wet basis)

Temperature / Pressure: Extraction: Water-based, no drying required. Pyrolysis: 550 °C.

Main products:

- Biochar 20 kt
- Bio-oil 18 kt
- Pyrolysis gas 7–10 kt



EFFICIENCY

- **Overall efficiency:** approx. 70–75 %



FINANCIALS

- CAPEX: 80 M€
- OPEX: 1,85 M€
- Revenue (2029): N.A
- EBITDA: N.A



REPAYMENT PERIOD

- **Estimated repayment period:** 7–9 years



INFRASTRUCTURE AND CONSTRUCTION

- **Construction time** 2 years.
- **Requirements:**
 - Electricity
 - Integration with wastewater treatment
 - Logistics



KOHDERYHMÄT JA HYÖDYT

- **Investors:** Industrial funds, regional development financiers
- **Partners:** Forest industry, green chemistry, agro-tech
- **End-users:** Bioenergy providers, soil enhancers, biobased chemical manufacturers



*Suomussalmi – From bark,
a sustainable future*



Co-funded by
the European Union

INVEST IN
SUOMUSSALMI

