

First Information Package – 12 MW Biomass Plant

20 bar(g) steam | Fuel: Wood chips / Bark | Backup: 4 MW oil burner

Document date: May 2026

Valid for: Initial interest and inspection booking

1. Executive Summary – A Rare Opportunity

A complete, fully operational 12 MW biomass plant is now available for relocation. Originally commissioned in 1970 (Generator/Valmet type HF17), the plant has been **continuously upgraded and meticulously maintained** – running 24/7 as a critical part of the owner's operations. This is not a neglected unit. It is a well-documented, well-cared-for industrial asset.

Unique additions included in the sale:

- **4 MW oil burner** as complete backup system
- **450 m³ external oil cistern** for fuel storage
- **Drum dryer for wet bark** – integrated into the plant

Why consider this plant?

- **No manufacturing lead time** – available for relocation during autumn 2026
 - **Proven performance** – in operation 24/7 with yearly inspections
 - **Well maintained** – 3 dedicated engineers (mechanical, electrical, electronic) have kept the plant in excellent condition
 - **Complete documentation** – original technical drawings and documentation are available at the factory
 - **Built-in redundancy** – 4 MW oil backup ensures continuous operation during maintenance or biomass fuel shortages
 - **Scandinavian quality** – built to robust standards with water-tube technology
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2. Key Specifications (At a glance)

Parameter	Value
Boiler output (biomass)	12 MW (nominal)
Boiler output (oil backup)	4 MW
Steam pressure	5 – 20 bar(g) (flexible operating range)
Fuel (primary)	Wood chips (G30-G50), bark, forest residues
Fuel (backup)	Oil (stored in external cistern)
Fuel consumption (biomass)	Approx. 350 loose m ³ per 24 hours
Oil storage capacity	450 m ³ external cistern
Boiler type	Natural circulation water-tube boiler with downcomers
Flue gas stack	44 meters, steel, double pipe
Additional equipment	Drum dryer for wet bark
Year of original manufacture	1970 (continuously upgraded since)





3. What Makes This Plant Unique – The Backup & Dryer Package

Unlike most second-hand biomass plants, this facility includes two valuable additional systems that provide operational flexibility and increased value.

4 MW Oil Burner Backup System

- Complete standalone oil burner system rated at 4 MW
- Enables continuous steam production during:
 - Biomass fuel supply interruptions
 - Planned maintenance of the biomass grate system
 - Periods of extremely wet fuel
- **External oil cistern** with 450 m³ storage capacity provides long operational autonomy

Drum Dryer for Wet Bark

- Integrated drum dryer allows the plant to process wet bark that would otherwise be difficult to burn efficiently
- Increases fuel flexibility – use lower-cost, higher-moisture fuels
- Originally part of the plant's optimization for bark-based operation

Buyer benefit: These additions transform the plant from a standalone biomass boiler into a **resilient, fuel-flexible energy center** – ideal for industries that cannot tolerate steam interruptions.

4. Why This Plant Stands Out – Condition & Maintenance

Unlike many second-hand industrial plants that have been run down, this boiler has been a **critical production asset** operated 24/7. Three specialized engineers have been responsible for:

- Mechanical systems** – regular replacement of parts, grate bars and refractory bricks (by Swedish company Eldfast)
- Electrical systems** – modern PLC cabinets (control PLC + security PLC)
- Electronic systems** – sensors, frequency converters and control systems

Key maintenance facts:

- Yearly internal inspections of water pipes by Kiva (Swedish inspection body)
- Yearly inspection of refractory bricks by Eldfast
- Boiler water tested **daily**
- Pressure test performed in 2025
- Automated sootblowing system (Diamond Power) keeps heat exchange surfaces clean

Current status: The plant is **in operation and can be inspected under load** until June 2026. After that, it will be decommissioned for relocation.

5. Included in the Sale (Scope of Supply)

The plant is sold as a complete system from fuel reception to ash handling, **including the backup oil system and bark dryer.**

- **Fuel handling** – walking floor reception bunker, chain/screw conveyors
- **Combustion system** – gravity-fed grate, primary/secondary air fans with frequency converters
- **Boiler & pressure parts** – water-tube boiler, steam drum with cyclones, economizer
- **Flue gas cleaning** – multi-cyclone pre-separator, ID fan, 44m steel stack
- **Ash handling** – screw and scraper conveyors, ash container
- **Control system** – PLC control cabinet (control PLC + security PLC), frequency converters, sensors
- **Cleaning system** – automated sootblowing (Diamond Power), PLC controlled
- **Backup system** – 4 MW oil burner with external oil cistern (450 m³)
- **Fuel drying** – drum dryer for wet bark

Documentation included:

- Original technical drawings and P&ID diagrams
 - Electrical schematics
 - Maintenance logs and inspection records
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6. Logistics & Practical Information

Question	Answer
Inspection possible?	Yes – the plant can be seen in operation until June 2026. Book a visit.
Availability for relocation	Autumn 2026

7. What We Recommend You Do Next

Step 1 - Express your interest

Contact us for a non-binding discussion about your needs and timeline.

Step 2 - Book an inspection

See the plant running under load before June 2026. Bring your technical team.

Step 3 - Receive the full documentation package

Original drawings, P&IDs, electrical schematics and maintenance logs will be made available to serious buyers.

Step 4 - Negotiate and plan relocation

Price and dismantling terms are agreed separately based on your requirements.

8. Contact Information

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