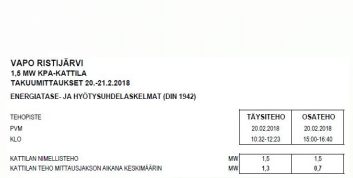
0.5–10MW biomass boilers with up to 94% efficency

Patented thermal engineering and optimized life-cycle costs.

Märt Jõesaar
2026













We engineer and manufacture BIO boilers

Bio Mobitek OÜ is an Estonian-Finnish joint capital company, where all founders bring deep expertise as hands-on drivers of highly efficient bioenergy solutions since the very beginning.



Voldemar Nellis
Co-Founder
& CEO

Executive Oversight
Manufacturing
Operations



Oleg Golmakov
Co-founder
& CTO

Engineering, Product
Development,
Technical Design



Jouni Kanerva
Co-Founder
& Tech Expert

Automation, Start up
and Maintenance



Aivar Jegorov
Co-Founder
& CSO

Maintenance,
Installation and
Service Operations

2012:
the launch of our growth and engineering heritage.

110+
projects successfully delivered and operating today

62
experts providing a hands-on approach to every detail

2,500 m²
production facility where your system is built

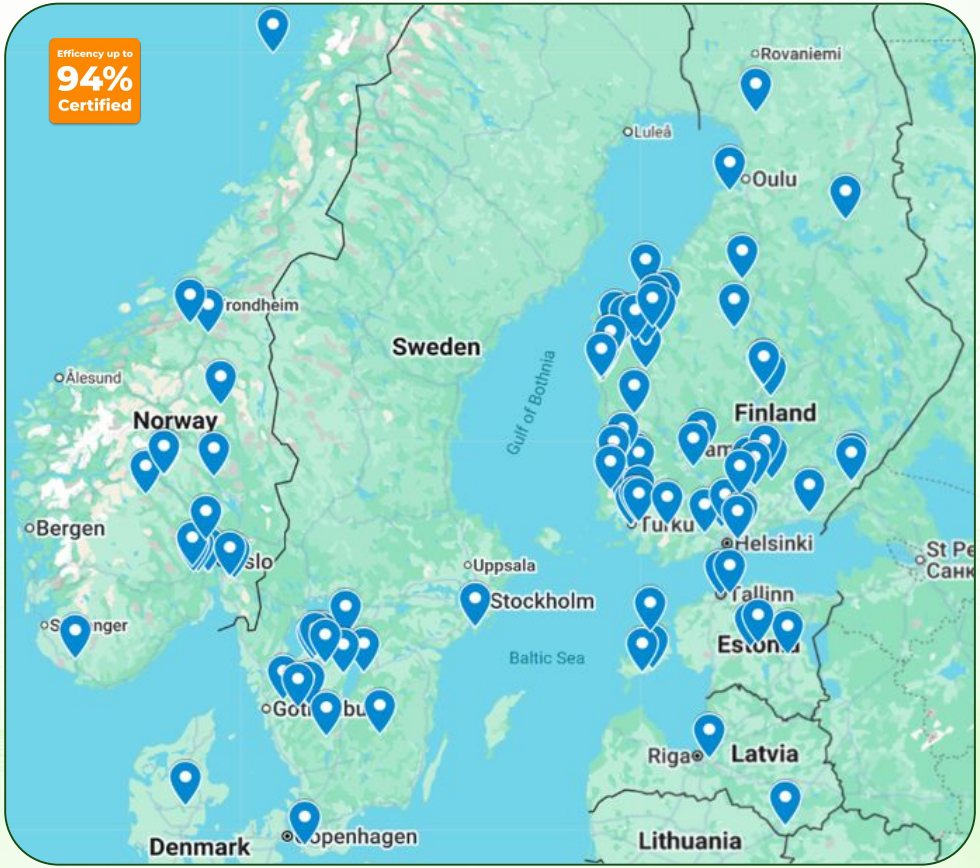
15+
industry sectors served, from local farms to national utilities

Certified
according to EN 1090 EXC 3, EN 3834-2, directive 2014/68/EU

Biomass Boilers manufactured and installed

Completed 110+ bio boilers
Industries we work:

- Agriculture
- Army
- Biogas plant
- District heating
- Energy production
- Farm
- Furniture production
- Greenhouses
- Hospital
- Hotels (SPA)
- Manufacturing
- Municipal houses
- Warehouses
- Waste incineration
- Wood factory



Turn-key BIO boilers 0.5-10MW

analyze | engineer | manufacture | implement | maintain



Modular Boilers (up to 4 MW)



Fixed-Installation Plants (up to 10 MW)



Waste-to-Energy Solution



BIO Boiler House Equipment



Chimneys



Ash removal system



Conveyors / Feeders



Flue gas cleaning



Vertical Heat Exchanger



Burners



Reactors



Power Boiler

Engineered to adapt to your fuel profile

Designed to handle high-moisture fuels (30–60%) and fuels with various densities.



Wood pellets



Saw Dust
& Planing Chips



Wood chips



Straw

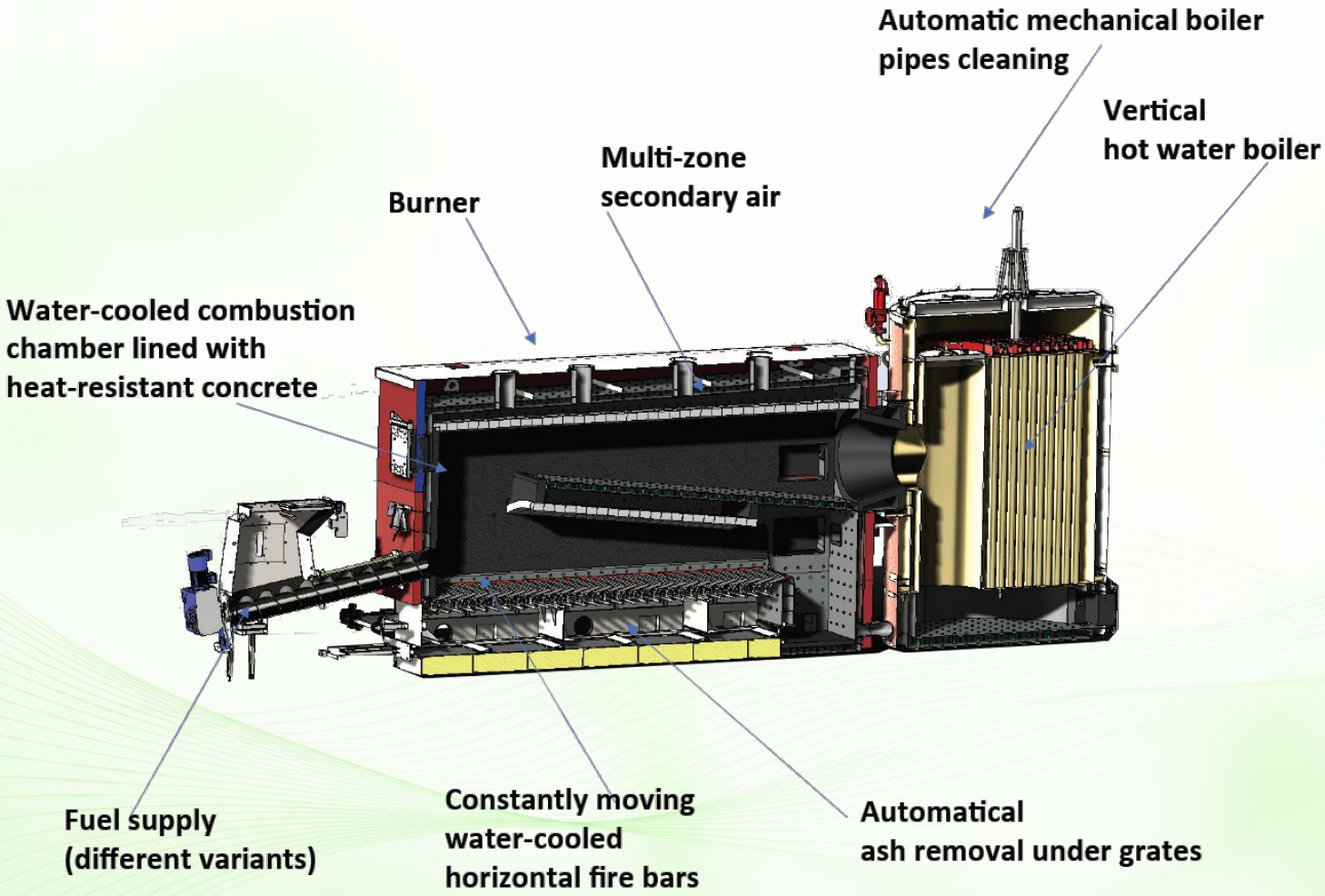


Peat briquettes
& Lump peat



Wood briquettes



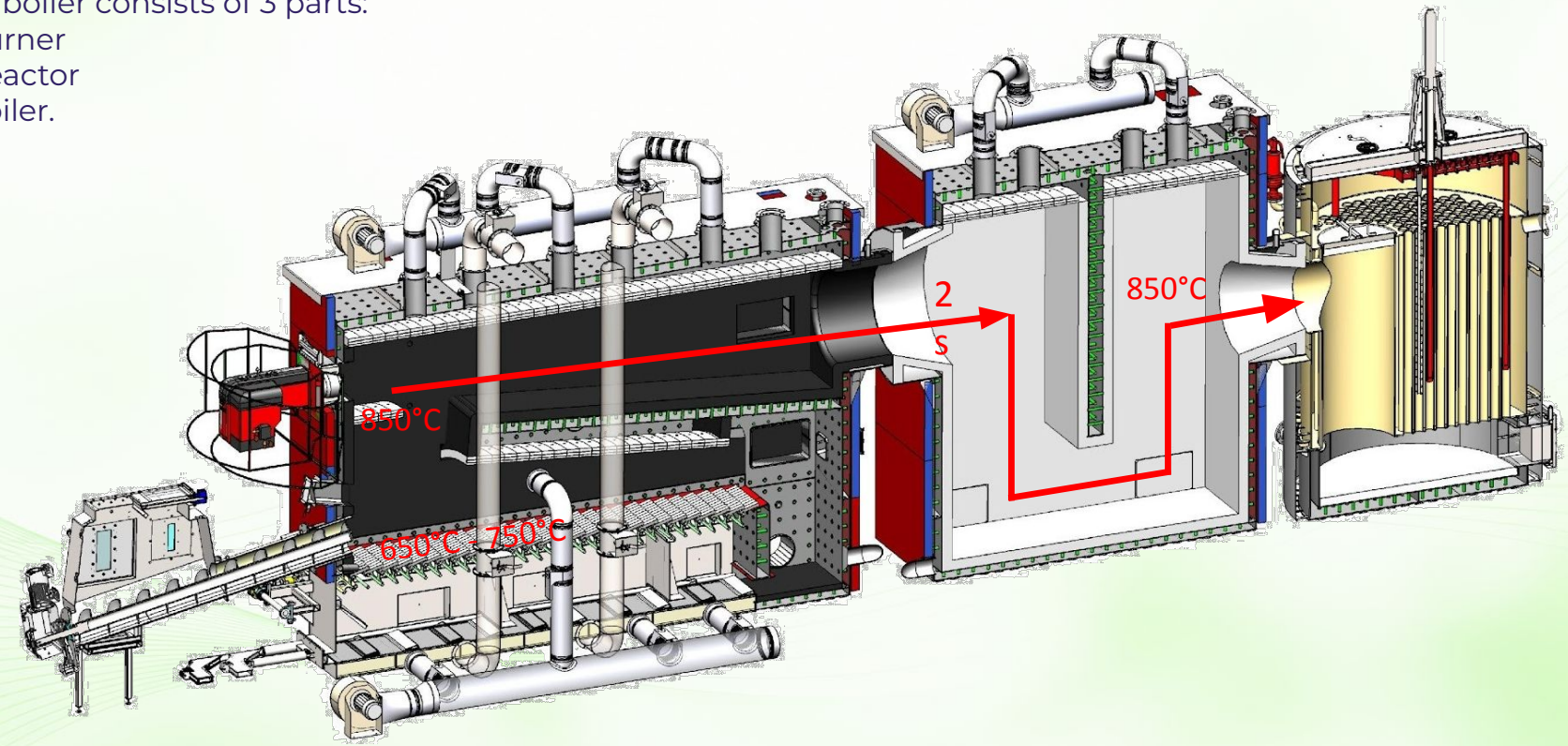


Designed for fully automatic operation, from fuel feeding and combustion control to boiler cleaning and ash removal.

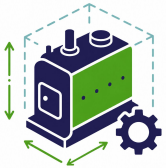
Assembly of Waste to Energy Solution

The boiler consists of 3 parts:

- burner
- Reactor
- boiler.



Why Choose Bio Mobitek?



Custom engineering



In-house manufacturing



Lower operating costs

Competitive Advantages with Direct Operating Cost Impact

BioMobitek Feature	Impact on Maintenance Costs	Impact on Efficiency
Water-cooled combustion chamber	Protects the refractory lining from overheating, reducing repair requirements.	Minimizing thermal losses.
Water-cooled moving grate	Prevents grate burnout and deformation, reducing replacement and maintenance costs.	Transfers more heat into the water circuit
Short grate blocks	Reduces thermal expansion stress and mechanical wear.	Ensures smooth fuel movement and consistent combustion.
Multi-zone combustion system	Provides stable temperature distribution and complete fuel burnout, reducing thermal stress.	Enables more complete fuel burnout, maximizing energy extraction.
Vertical heat exchanger	Minimizes ash accumulation and cleaning requirements.	Keeps heat transfer surfaces cleaner for longer, maintaining performance.
Automatic heat exchanger cleaning	Minimizes cleaning requirements - boiler can work continuously 1 year.	Preserves high efficiency throughout the operating cycle.
Fuel recipes	Simplifies operation when switching between fuel types.	Ensures optimal combustion settings for each fuel.

Certified Manufacturing & Welding

Our manufacturing is backed by six key European certifications and welding qualifications, ensuring controlled quality and compliance throughout production.

Manufacturing certifications EN 1090 EXC 3 · EN 3834-2 · Directive 2014/68/EU


TÜVNORD

EC Certificate

Factory Production Control (FPC)

1526-CPR-1090-1.0008.TÜVEESTI.2025.000


TÜVNORD

CERTIFICATE

EU-Unit verification for pressure equipment according to Pressure Equipment Directive 2014/68/EU

Certificate No.: CE-1526-PED-0031.01


TÜVNORD

CERTIFICATE

The Certification Body of TÜV Eesti OÜ

certifies that the company

Bio Mobitek OÜ

Kaevuri 2a/1, Kohtla-Järve, Ida-Virumaa 30328, Estonia

production site

Kaevuri 2a/1, Kohtla-Järve, Ida-Virumaa 30328, Estonia

has been verified and recognized as welding workshop in the product range of

manufacturing of welded steel constructions

based on the requirements of the standard

EVS-EN ISO 3834-2:2021

Certificate-no.: WQMS009/2025

The range of validity and details of the inspection can be seen in our

Report-no.: S 60 95525

The company is using a quality assurance system, mechanical equipment, qualified personnel and procedures for joining processes for manufacturing and testing of welded products.

This certificate is valid until

16 of November 2028

Welding qualifications Certified European Welding Engineer · Certified welders · WPQR for processes 111, 121, 135, 136, 138 and 141


INTERNATIONAL INSTITUTE OF WELDING

Having met the Education and Training requirements of IIW Guideline 'International Welding Engineer' and by examination having satisfied the requirements of the Examination Board of the IIW Authorised National Body

is hereby awarded the diploma of

INTERNATIONAL WELDING ENGINEER


EN ISO9712:2012

RTC

TESTING AND DIAGNOSTICS

NDT LEVEL 2 CERTIFICATE

Number: 16972-2021-04

Test method: Visual testing

Industrial sector: Pre- and in-service testing which includes manufacturing

Issue date: 09.11.2021

Expiry date: 09.11.2026

This is to certify that

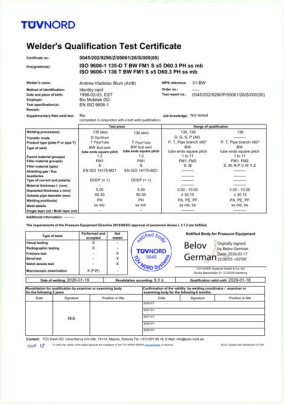
Aleksei Prokopenkov

date of birth: 22.08.1976

has met all RTC requirements of EN ISO 9712:2012 regarding training, experience, physical fitness and has successfully completed an examination of all objects within the industrial sector Pre- and in-service testing which includes manufacturing

RTC Testing and diagnostics
183 b.2 Volgogradskiy prospect
Moscow, 109507 Russia

Authorized Qualifying Body No 04
«Gaasikaautuskoolituse OÜ»


TÜVNORD

Welder's Qualification Test Certificate

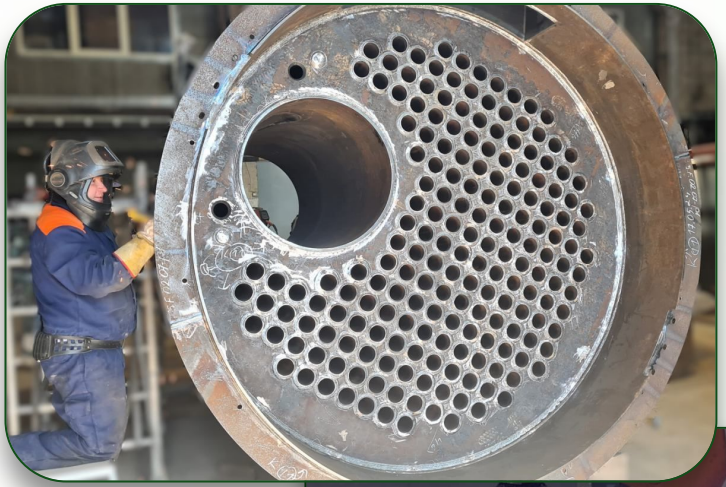
ISO 9606-1 135-D T BW FM1 S s5 D60.3 PH ss mb

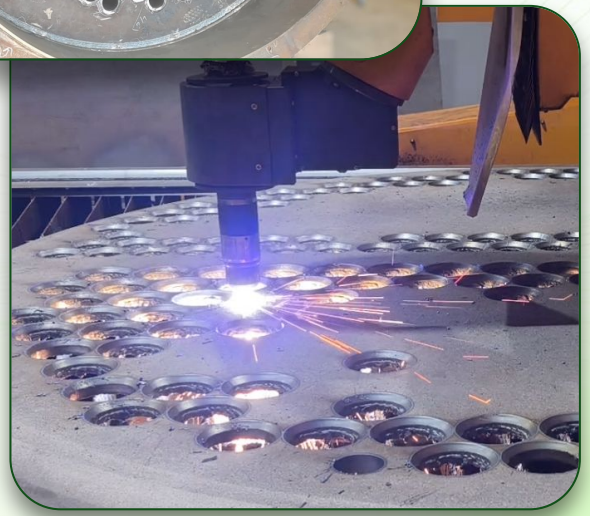
ISO 9606-1 136 T BW FM1 S s5 D60.3 PH ss mb

Belov

German

Manufacturing capabilities





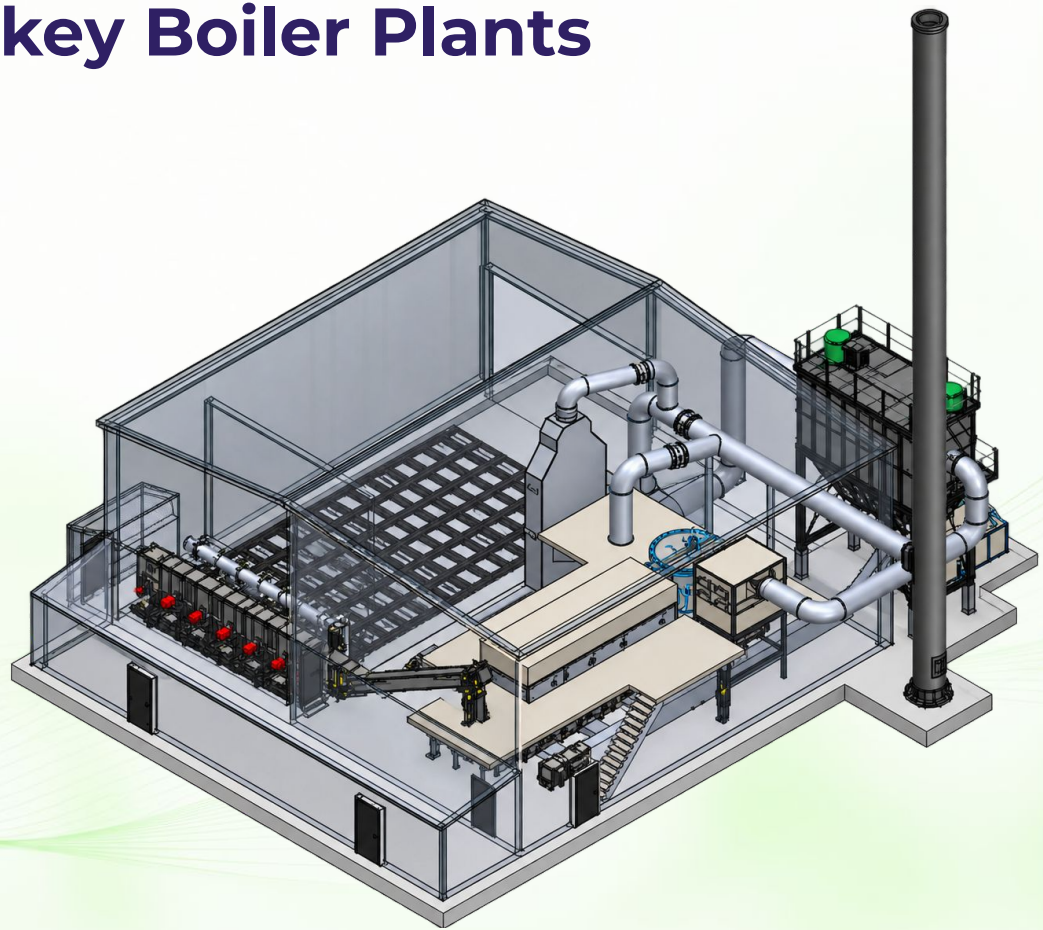
Our in-house production covers the complete manufacturing process — from steel cutting and forming to welding, surface treatment, assembly and final integration.

Steel Processing: 3D plasma cutting, press brake forming, sawing, drilling, milling and turning.
Welding: MMA, MIG, TIG and SAW welding with certified personnel and procedures.
Heavy Assembly: Lifting capacity up to 20 t for manufacturing and assembling large boiler components.
Surface Treatment: In-house shot blasting, wet painting and powder coating.
Final Integration: Mechanical and electrical assembly of complete boiler systems and auxiliary equipment.

Complete Turn-key Boiler Plants

For larger projects, we engineer and deliver the complete boiler plant — including plant layout and architecture, fuel handling, boiler systems, flue-gas treatment, chimney and auxiliary systems.

One partner from engineering and manufacturing to installation, commissioning and maintenance.

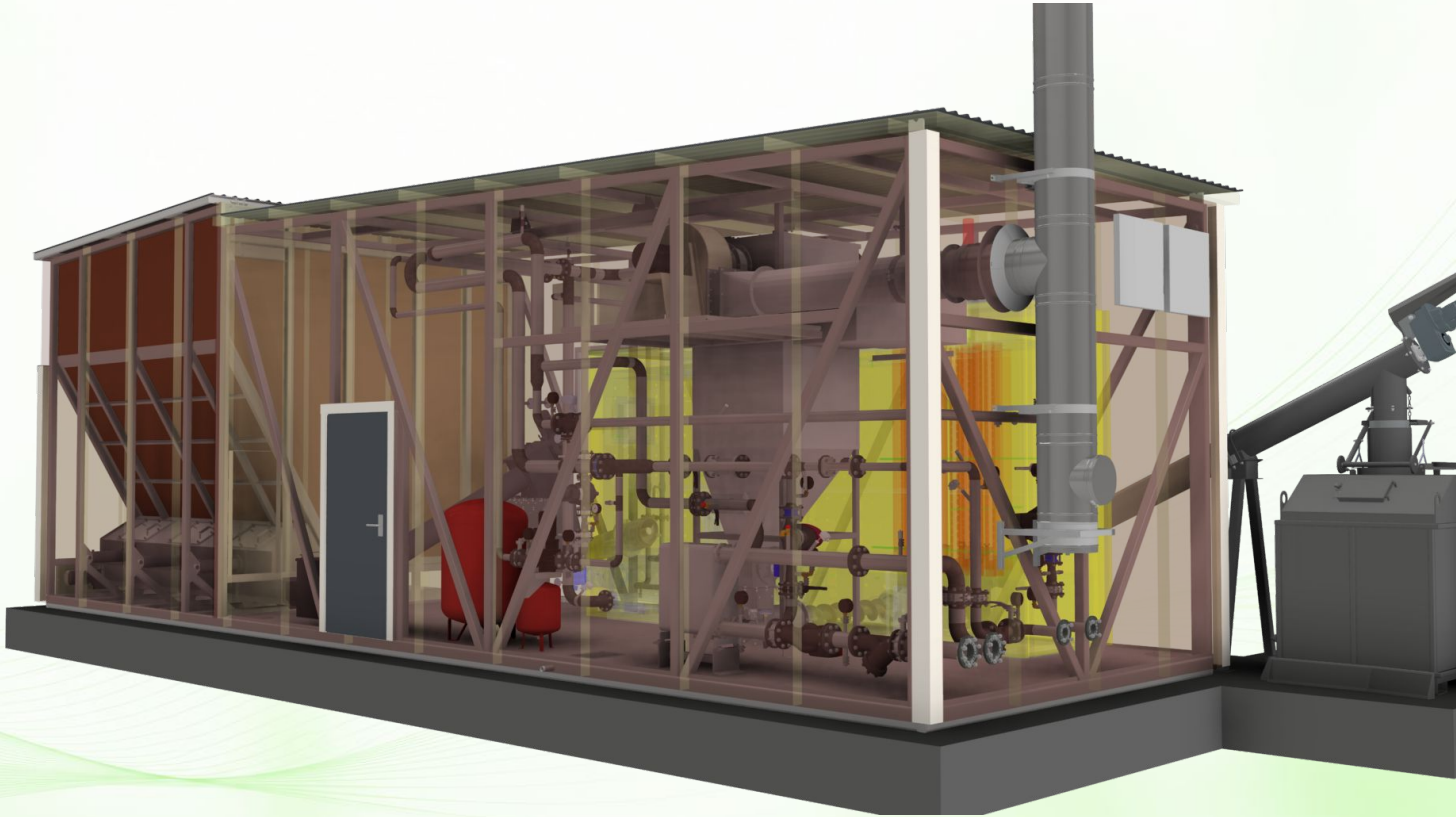


Modular Boilerhouse

From single-module units with integrated storage to complex multi-container arrays for high-MW demands,

Bio Mobitek designs for your specific footprint and fuel type.

Our modular boiler systems are precision-engineered at our plant and delivered as “plug-and-play” units.











Woodchips storage

Fuel bunker volume is designed for required autonomy, with dual-bunker setups enabling continuous operation during refilling.

Easy transport. Simple installation

We have extensive experience transporting modular boiler plants across Scandinavia.

Our hydraulic unloading system means no crane is required, less space is needed on site, and installation is fast and straightforward.





Märt Jõesaar

International Sales
linkedin.com/in/martjoesaar

Contacts: +372 507 7768
mart.joesaar@biomobitek.com
www.biomobitek.com

Custom Turn-key BIO Boilers (0.5–10 MW)

We do not sell off-the-shelf equipment.

Every efficient bioenergy project starts with understanding the customer needs.

Let’s book a short discovery meeting to look at your heat and business requirements.

analyze | engineer | manufacture | implement | maintain