EEM

Eesti Energomontaaž

# Who are we?

We began our corporate activities in 1950 under the name SEVZAPENERGOMONTAZH. Our company was originally created to construct power plants in the Baltic countries of Estonia, Latvia and Lithuania. In 1990 the state owned company was privatized and Eesti Energomontaaž was established with private shareholdings. EEM directly employees more than 150 people. Our financial turnover in 2020 was €10,01 million.

- ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
- EVS-EN 1090-1:2009+A1:2011
- EN ISO 3834-2:2006

# List of services

- Installation and supply of industrial pipelines (LP and HP)
- Manufacture, installation and reconditioning of pressure vessels
- Modification and repair of steam- and water-heating boilers
- Manufacture of spare parts for steam- and water-heating boilers and mechanical equipment
- Manufacture and installation of steel structures
- Manufacture and construction of tanks and reservoirs
- Insulation works

# Production plant:

- Working area 3,000 m2
- Machine shop – single-aisle building
- Machine-assembly shop – double-aisle building
- Outdoor facility for assembly of large-size items
- Cranes 5 t and 30 t
- Machinery: lathes, milling and boring machines, gas plasma system and other equipment for mechanical work
- Workshop for fabrication of fixings and parts for insulation
- Indoor storage facility 450 m2
- Capacity 120 tn per month

# Dynamic Effective Experienced

We have been operational for more than two decades in the North – Eastern European market. We have dozens of satisfied clients and case studies demonstrating our reliability, professionalism and track record. Throughout this time we have been on the cutting edge of the industry ensuring that our customers have the optimum solution at the best price.

Our case studies are an impressive record of the scale and scope of our projects for some of the biggest and most demanding customers in the Baltic region. It is our intention to be one of the major players in Europe during the next decade.

# Precise Effective Solutions

At EEM we listen carefully to our customers' requirements and tailor solutions to achieve results within budget and on-time.

Our customer service staff are always ready to respond to your questions.

We have a project management team that is experienced and pragmatic, while our engineers receive ongoing training to ensure their capabilities are of the highest level, always abreast of new technologies and approaches, in order to deliver precise effective solutions.

EEM
Eesti Energomontaaž

# RECENT PROJECTS

## 2012-2021

# Low NOx modification at Tisova power plant, Czech Republic

Customer - Fortum Power and Heat Oy, 2020

# Low NOx modification at Tisova power plant, 2020

**Location of object:** Czech Republic, Tisová

**Customer:** Fortum Power and Heat OY

**Brief description of work:**

- Dismantling works
- Design, manufacturing and installation of OFA nozzles, openings and other boiler details
- Manufacturing and installation of air ducts, expansion joints, metal structures
- Insulation

# Installation of DH piping and support structures at Vaasa, Finland

Customer - Vaasan Voima Oy, 2020

**Construction of steam and hot water pipelines between the new CHP and the existing Silpower power plant, 2020**

**Location of object:** Sillamäe, Estonia

**Customer:** Silpower AS

**Brief description of work:**

- Dismantling works
- Steam and hot water pipelines manufacturing and installation
- Supporting metal structures manufacturing and installation
- Platforms manufacturing and installation
- Insulation

# Manufacturing and installation of tanks, pipelines and equipment at Imavere

Customer - OÜ Graanul Biotech, 2019-2020

# Manufacturing and installation of tanks, pipelines and equipment at Imavere, 2020

**Location of object:** Imavere, Estonia

**Customer:** OÜ Graanul Biotech

**Brief description of work:**

- Pipelines and steel structures design, manufacturing
- Supply and installation of equipment
- Design, manufacturing, installation of tanks with capacity of V=685м$^3$ and V=327м$^3$, support structures, platforms
- Insulation

Reconstruction of boiler 5A for burning semi-coke gas at Estonian power plant**, 2020**

**Location of object:** Auvere, Estonia

**Customer:** ENTEH Engineering AS

**Brief description of work:**

- Manufacturing and installation of a recirculation gas duct, primary and secondary air ducts
- Manufacturing of burners
- Installation of gas and compressed air pipelines
- Insulation

# Construction works at the Ammonia Terminal in Sillamäe

**Location of object:** Sillamäe, Estonia

**Customer:** EuroChem Terminal Sillamae AS

**List of works performed:**

- Fabrication and installation of steel structures on the condensers' service platforms in compressor plant on the EuroChem Terminal
- Construction of a railway overpass at the station of ammonia unloading out of railway tanks
- Mounting of export pipelines on the EuroChem ammonia transshipment terminal in Sillamae from the supporting pier T-50 to T-80u and from the pier T98u to T-161
- Installation of water pipelines curtain on a railway overpass and condenser plant of ammonia terminal
- Manufacturing and installation of Fire Water tanks

# Fabrication and installation of steel structures on the condensers' service platforms in compressor plant on the EuroChem Terminal

Customer - EuroChem Terminal Sillamae AS, 2019

**Construction of a railway overpass at the station of ammonia unloading out of railway tanks**

Customer - EuroChem Terminal Sillamae AS, 2019

**Mounting of export pipelines on the EuroChem ammonia transshipment terminal in Sillamae from the supporting pier T-50 to T-80u and from the pier T98u to T-161**

Customer - EuroChem Terminal Sillamae AS, 2019

**Installation of water pipelines curtain on a railway overpass and condenser plant of ammonia terminal**

Customer - EuroChem Terminal Sillamae AS, 2019

# Manufacturing and installation of Fire Water tanks

Customer - EuroChem Terminal Sillamae AS, 2019

**Installation of equipment, pipelines of the compressor and condenser plants on the EuroChem Terminal in Sillamäe**

Customer - Johnson Controls Systems & Service B.V., 2019

# Manufacturing of platforms and steel structures for Stora Enso Kaukopää project

Customer - Andritz OY, 2019

# Installation of ducts and steel structures

Customer - Andritz OY, 2019

# Manufacturing and supply of scrubber, moisturizer, sand filters, 2019

**Location of object:** Kivenlahti, Finland

**Customer:** KPA Unicon OY

**Brief description of work:**

- Manufacturing of Scrubber
- Manufacturing of Sand Filter
- Manufacturing of Combustion air moisturizer
- Delivery of equipment
- Installation of equipment

# Manufacturing and supply of air ducts and gas ducts, 2019

**Location of object:** France

**Customer:** KPA Unicon OY

**Brief description of work:**

- Pre-fabrication of air and gas ducts
- Delivery of ducts and equipment
- Dismantling works
- Fabrication of air and gas ducts
- Erection of air and gas ducts, supports and equipment
- Insulation

# Low Nox modification. Mechanical installation of OFA nozzles and ducts and boiler openings

Customer – Fortum Power and Heat OY, 2019

# Low Nox modification. Mechanical installation of OFA nozzles and ducts and boiler openings, 2019

**Location of object:** Vaskiluodon Voima, Finland

**Customer:** Fortum Power and Heat OY

**Brief description of work:**

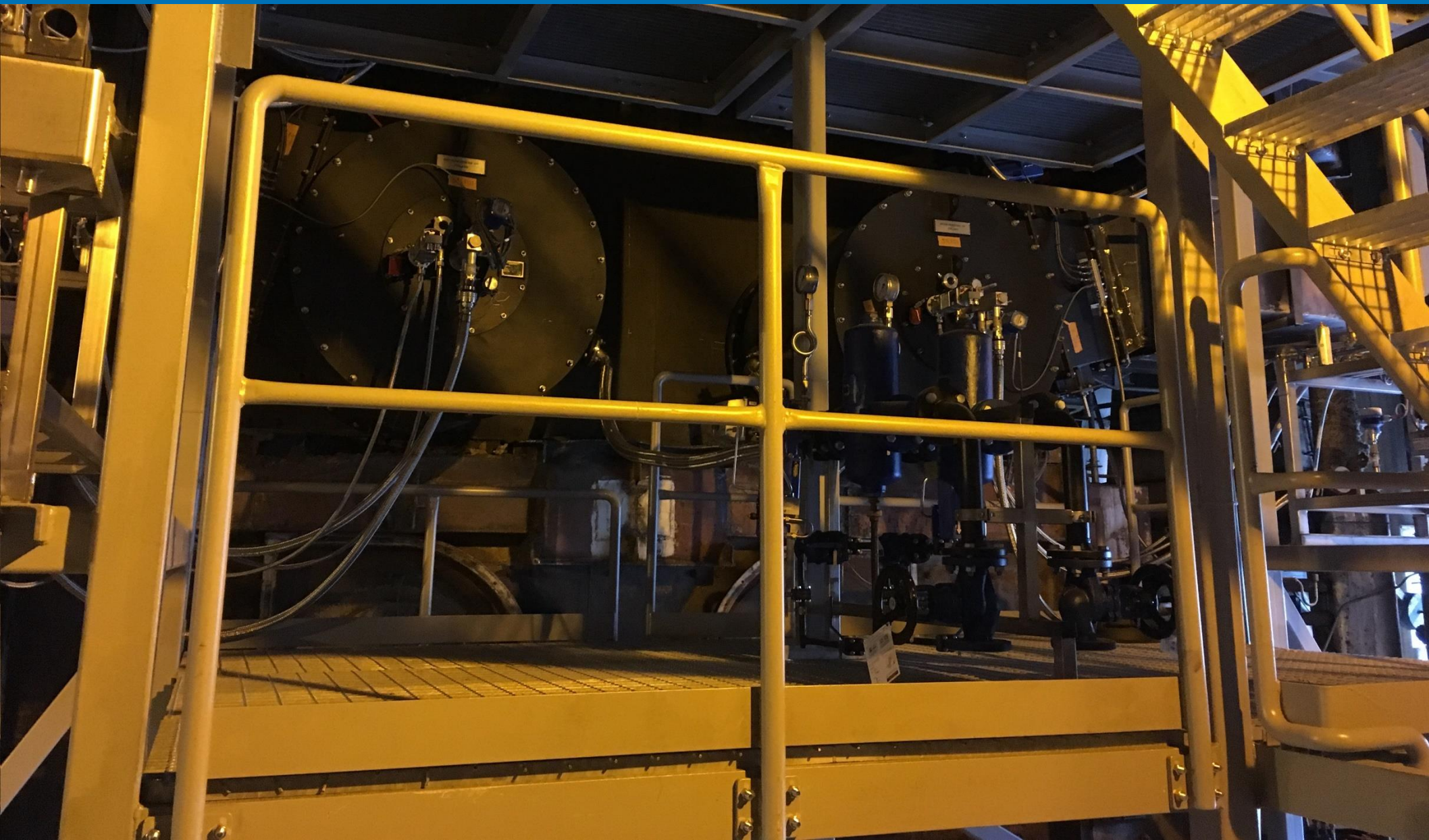
- Dismantling works
- Design, manufacturing and installation of openings
- Design, manufacturing and installation of nozzle ducts area, including electric control dampers and bellows
- Manufacturing and installation of OFA nozzles and modification of old OFAs
- Relocation of existing steam and water pipes
- Insulation
- Mechanical installation of following equipment

# Dismantling and installation of burners, OFA-nozzles and air ducts at Suomenoja Power Plant SO1 boiler

Customer - Fortum Power and Heat OY, 2018

# Demolition and Installation of Equipment in Heinola

Customer - Andritz OY, 2018



# Demolition and Installation of Equipment in Heinola, 2018

**Location of object:** Heinola, Finland

**Customer:** Andritz OY

**Brief description of work:**

- Installation of new oil burners
- Dismantling of existing combustion air box at front wall and existing air ducting on both side walls
- Installation of new air ducting to each burner
- Dismantling of existing platforms in front of the burner area
- Installation of new platforms to burner area
- Replacement of Primary superheater and hanger tubes
- Replacement of tubes to PSH1 inlet header.

# Replacement of inner casing (gas boiler pass) of utilizer boiler

Customer - VKG Oil AS, 2017

# Replacement of inner casing (gas boiler pass) of utilizer boiler, 2017

**Location of object:** Kohtla-Järve

**Customer:** VKG Oil AS

**Brief description of work:**

- Disassembly of an old КУ-126 boiler.
- Designing project documentation for installation of a boiler into horizontal position, with further change over to the designed position.
- Replacement of inner casing (gas boiler pass) of an utilizer boiler КУ-126 in the inter-casing space of Petroter I installation.
- Follow on development and assembly of pipes for binding of utilizer-boiler. Installation of service platforms.
- Restoring insulation of boiler and pipelines.

# Installing a boiler no.4 E-135-3, 2-420ДГ, 2017

**Location of object:** Kohtla-Järve

**Customer:** UAB Energetikos paslaugų ir rangos organizacija

**Brief description of work:**

- installing components of a boiler no.4 E-135-3, 2-420ДГ and service platforms
- installing pipeline of a feed unit of a steam-line, the steam-line, a gas pipe
- installing gas boiler passes and recirculation air ducts to burner of boiler no.4
- installing a gas boiler pass for smoke gases
- installing continuous blowdown expanders
- restoring insulation of boiler and pipelines

# Design and repair work on tank no.7 (montejus) of sulphuric acid storage at the Põhja SEJ, 2017

**Location of object:** Kohtla-Järve

**Customer:** UAB EKOBANA

**Brief description of work:**

- Disassembling an old montejus, disconnecting a tank from technological layout, from sulphuric acid pipeline and compressed air.
- Manufacture and assembly of montejus and supports, assembly on-site.
- Connection to the existing technological layout

# Retrofit for 50% gas co-firing Eesti Block 8, Boiler 1, 2017

# Retrofit for 50% gas co-firing Eesti Block 8, Boiler 1

**Location of object:** Estonian Power Plant

**Customer:** AMEC FOSTER WHEELER

**Brief description of work:**

- Modernization of boiler no.1 for block no.8 with the aim of increasing a share of tar gas burning.
- Installing new burners and modernization of the existing ones.
- Installing worms for ash removal.
- Installing gas boiler passes

# Construction of an Oil Products Terminal, a Pump Station and a Railway and Truck Load Trestle

# Construction of an Oil Products Terminal, a Pump Station and a Railway and Truck Load Trestle, 2017

**Location of object:** Mockavos terminalas, Lithuania

**Customer:** UAB Mockavos terminalas

**Brief description of work:**

Building a tank battery of pump house, railway load rack and truck terminal.

# Installing steel cylindrical tanks for oil products and xylene

# Installing steel cylindrical tanks for oil products and xylene, 2016

**Location of object:** Paldiski, Harju County

**Customer:** Baltic Oil Service OÜ

**Brief description of work:**

- Design and installation of steel cylindrical tanks with capacity of V=3000m³ for oil products and xylene
- Design and installation of fire-fighting pipes for fuel terminal
- Extension of oil-loading rack
- Installation of equipment

# Construction and installation work on connection of phenol water treatment plant

# Construction and installation work on connection of phenol water treatment plant, 2015

**Location of object:** Kohtla-Järve

**Customer:** VKG Oil AS

**Brief description of work:**

- Designing a capacity of 600 m3, service sites, pipelines and coal filter
- Construction and installation work on connection of phenol water treatment plant (Sulzer)
- Installation of equipment for phenol water treatment plant
- Connecting equipment to the existing production Petroter 1

# Installation of equipment and pipelines for turbine no.1, the Põhja SEJ, 2015

**Location of object:** Northern power plant Kohtla-Järve

**Customer:** UAB EKOBANA

**Brief description of work:**

- Installation of pipelines and stations, additional equipment for turbine no.1 at Põhja SEJ, installing high and low pressure steam pipes, full-flow condensate pipes, oil ducts and inter-turbine pipes
- Installing equipment of ball cleaning and cooling-water pipes. Heat insulation of turbine and pipelines

# Construction and installation work, start-up and commissioning of circulation water pumps Põhja SEJ within the construction of a new condensate turbine power plant, equipped with the cooling system, 2015

**Location of object:** Põhja SEJ Kohtla-Järve

**Customer:** UAB EKOBANA

**Brief description of work:**

- Installation of circulation water pump and equipment for circulation water pump
- Start-up and commissioning of circulation water pumps at the Põhja SEJ within the construction of a new condensate turbine power plant, equipped with a cooling system
- Piping work and binding

**Renovation of surfaces of desulfurization equipment (DeSOx) of power units no. 3, 5, 6 200 MW (6 boilers) at Eesti PP**

Customer – AS Alstom Estonia (Estonia), 2015

Mounting of Low and High Pressure piping, erection of supplementary equipment (pumps, condenser, pre-heaters and etc.), insulation

**Mounting of LP and HP piping within construction of a turboset no. 1 *K*-25-30 at Põhja PP**

Customer – UAB Ekobana (Lithuania), 2014 - 2015

**Mounting of LP and HP piping within construction of a turboset no. 1 *K*-25-30 at Põhja PP**

Customer – UAB Ekobana (Lithuania), 2014 - 2015

**Procurement and mechanical erection of a steam boiler *E*-50-3,9-440*ГМ*. 50MW**
**Customer – VKG Energia OÜ (Estonia), 2014 - 2015**

# Procurement and mechanical erection of a steam boiler *E*-50-3,9-440*ГМ*. 50MW, 2014-2015

**Location of object:** Põhja SEJ Kohtla-Järve

**Customer:** VKG Energia OÜ (Estonia)

**Brief description of work:**

- general contract
- boiler and the equipment delivery
- detail designing
- erection of the boiler
- mounting of the station LP and HP pipelines
- fabrication and erection of ducts
- electrical installation works
- instrumentation and automation works
- commissioning and operation testing of the boiler

**Procurement and mechanical erection of a steam boiler *E*-50-3,9-440*ГМ*. 50MW**

Customer – VKG Energia OÜ (Estonia), 2014 - 2015

# PC Boiler 20 MWT modification to BFB boilers under the design project of Rantotek OY, 2014-2015

**Location of object:** Põhja SEJ Kohtla-Järve

**Customer:** Customer – AS Sillamäe SEJ (Estonia)

**Brief description of work:**

- delivery of the new water walls of the boiler
- fabrication of air heater, economizer, super heater, headers of the boiler, water outfall piping and vapor piping
- demolishing works
- erection of boiler parts
- fabrication of air ducts
- erection of air ducts
- insulation
- refractory

**Engineering, procurement and construction of nitrogen oxides reduction installations (DeNOx) at Eesti PP 200MW, power units no. 3, 4, 5, 6 - boiler part**

Customer – Fortum Power and Heat Oy (Finland), 2012 - 2015

**Engineering, procurement and construction of nitrogen oxides reduction installations (DeNOx) at Eesti PP 200MW, power units no. 3, 4, 5, 6 - boiler part,** 2012 - 2015

**Location of object:** Estonian Power Plant

**Customer:** Fortum Power and Heat Oy (Finland)

**Brief description of work:**

- fabrication of air ducts
- erection of air ducts
- settling of openings for OFA in the boilers' water walls
- detail designing
- insulation
- refractory

**Mounting of pipelines in the distillery of the Shale Processing Plant Petroter I, II, III**

Customer – Viru Keemia Grupp (Estonia), 2010 - 2015

Mounting of LP and HP pipelines

**Mounting of pipelines in the distillery of the Shale Processing Plant Petroter I, II, III.**

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Mounting of LP and HP pipelines

**Mounting of pipelines in the distillery of the Shale Processing Plant Petroter I, II, III**

Customer – Viru Keemia Grupp (Estonia), 2010 - 2015

Mounting of LP and HP pipelines

**Renovation of boilers** БКЗ **-75-39 (4 sets)**
Customer – VKG Energia OÜ (Estonia), 2012 - 2014

- Project design
- Fabrication of boiler parts (air heater, economizer, superheater etc.)
- Overhaul of the boilers
- Running tests

**Design project and installation of a plant for NOx reduction in Poland for Polska S.A., Branch no. 1 in Krakow and for Zespol Elektrocieplowni Wroclawskich Kogeneracja S.A.**
**Customer – Instal Krakow S.A. (Poland), 2014**
Erection of air and flue ducts

**Steam and water pipeworks for the Tallinn Waste Treatment plant (LP and HP)**
**Customer – CNIM (France), 2012 - 2013**
Mounting of LP and HP pipelines
Erection of the equipment in the turbine room

**Steam and water pipeworks for the Tallinn Waste Treatment plant (LP and HP)**

Customer – CNIM (France), 2012 - 2013

**Steam and water pipework for the Tallinn Waste Treatment plant (LP and HP)**

Customer – CNIM (France), 2012 - 2013

# Engineering and construction of a Water Deaerating and Demineralization Plant at VKG Energia OÜ

Customer – UAB “Jurby Water Tech“ (Lithuania), 2013

- Detail design
- Fabrication of deaerator
- Mounting of LP pipelines
- Insulation
- Electrical installation works
- Instrumentation and automation works

# PC Boiler 20 MWT modification to BFB boilers under the design project of Rantotek OY, 2012-2013

**Location of object:** Põhja SEJ Kohtla-Järve

**Customer:** AS Sillamäe SEJ (Estonia)

**Brief description of work:**

- Fabrication of water walls of the boiler, air heater, economizer, superheater, headers of the boiler
- Fabrication of air ducts
- Demolishing works
- Erection of boiler parts
- Erection of air and flue ducts
- Insulation
- Refractory

Detailed case studies are available on request.
If you require more information please contact us:

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