



PUMP INSTALLATIONS BY FIELD

MAZUT, SHALE OIL AND OTHER ANALOGUE VISCOSE FUEL OILS AND RAW MATERIAL

1) Eisk seaport, Russia

EcoVizor model Ex195 was installed at Eisk Seaport in early 2013. In the summer of 2013, after successful results of the test period, the company ordered 12 pumps more of the same model. EcoVizor replaced Ukrainian produced screw pumps on this object. The pumps are used to pump fuel oil from tanks with a bottom discharge under the railway to a container at a terminal. EcoVizor pumps can pump the fuel oil at 20° C, having no need for a heating system, thus saving time and energy.



2) Vopak mazut processing terminal, Tallinn, Estonia

A test pump model Ex195 was tried out at Vopak. After a successful test period Vopak purchased the test pump to replace previously used Varisco gear pump at the end of the year 2012. At the moment comparisons between EcoVizor pump and a Houttuin pump are being carried out.



3) Alexela's terminal in Sillamäe, Estonia

EcoVizor model Ex195 is installed for a test period at Alexela terminal in Sillamäe. The Ex195 is pumping shale oil and mazut, a task previously done by a Bornemann screw pump.

4) GOUTP Tekos, Murmansk, Russia

Tekos acquired the EcoVizor model Ex260 to pump fuel oil from underground storage tanks. The Ex260 replaced a semi-submersible centrifugal pump 12HA-22x6.



5) Kompas Sroy, Leningrad Oblast, Russia

EcoVizor model Ex130 was installed near Saint-Petersburg at the Kompas Sroy terminal to pump mazut. The Ex130 is working parallel with a regular gear pump SH80.



6) AS Sillamäe SEJ (Sillamäe Thermoelectric Power Station), Sillamäe, Estonia

In Sillamäe power station EcoVizor model Ex092 is used as a feed pump for shale oil, which is pumped at high pressure. The Ex092 has operated continuously for two years with a working pressure of 7 bar-s. Unlike previously used gear and multi staged centrifugal pumps, there have been no reliability problems with Ex092.



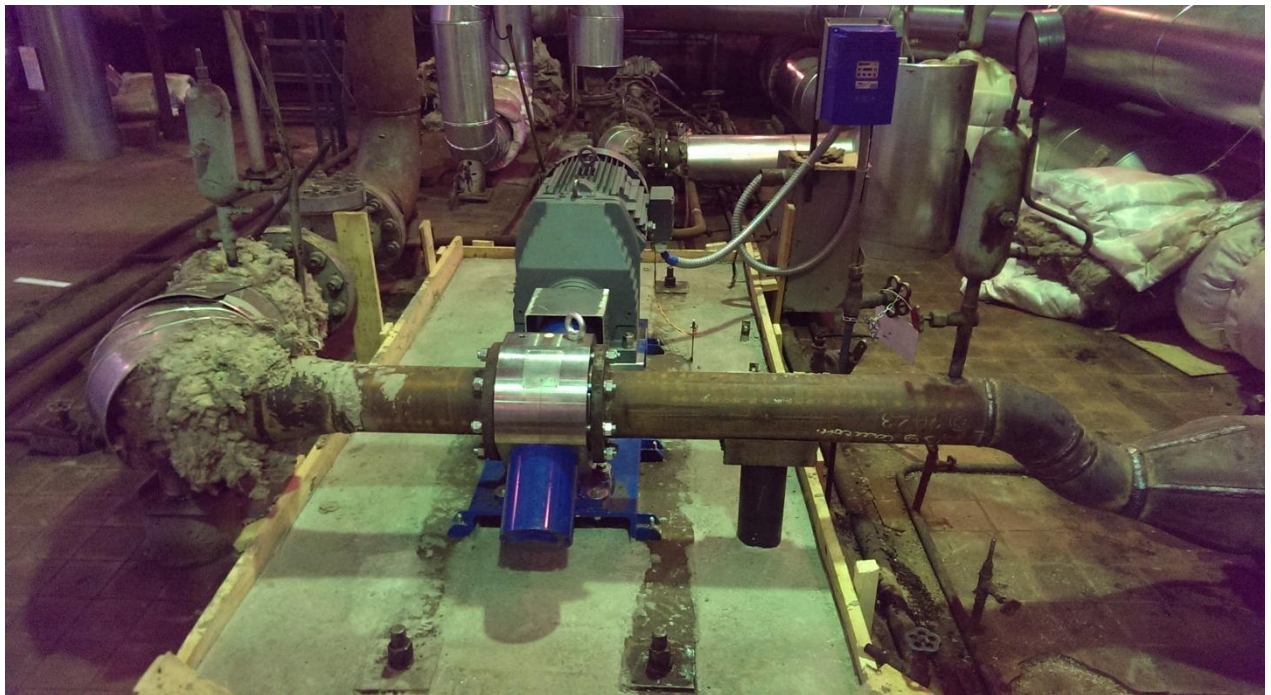
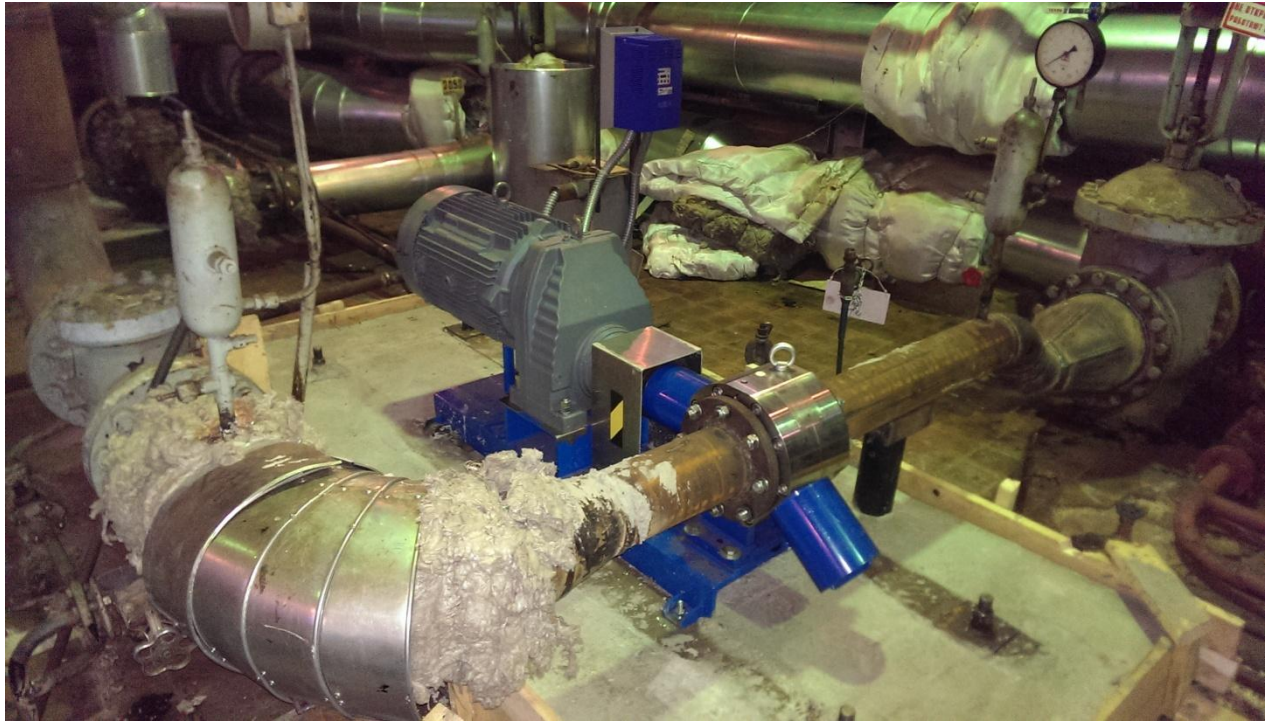
7) ТЭЦ 7 (Thermal Power Station 7), Saint Petersburg, Russia

The EcoVizor model Ex156 was installed at Saint Petersburg Thermal Power plant 7 as a circulatory pump and replaced a Russian manufactured centrifugal pump «НПЦ». Calculated energy savings up to 20 000 euro per year.



8) ТЭЦ 21 (Thermal Power Station 21), Saint Petersburg, Russia

At St. Petersburg Thermal Power Station 21, EcoVizor Ex195 was installed on the first level. Earlier this position used centrifugal pumps 6NK 9x1-Russian producers. Russian made centrifugal pump 6NK 9-1 was used previously on that position. The EcoVizor pump consumes 38% of less energy compared to 6NK 9-1.



COAGULANTS

1) Vodokanal of Saint Petersburg, Russia

At Vodokanal of St Petersburg, a “Netzsch” screw pump was replaced with EcoVizor model Ex130 to pump flocculants. Technical specialist of the plant have made cost comparison “Ecovizor” vs “Netzch” based on the result of test period.

Also, in May 2012 two Ecovizor pumps Ex092 were installed to replace the screw pumps. Since the control range of the pump Ecovizor very high pump operates both as the metering and as flushing.



OIL AND OIL PRODUCTS

1) Wintershall Holding GmbH, Germany

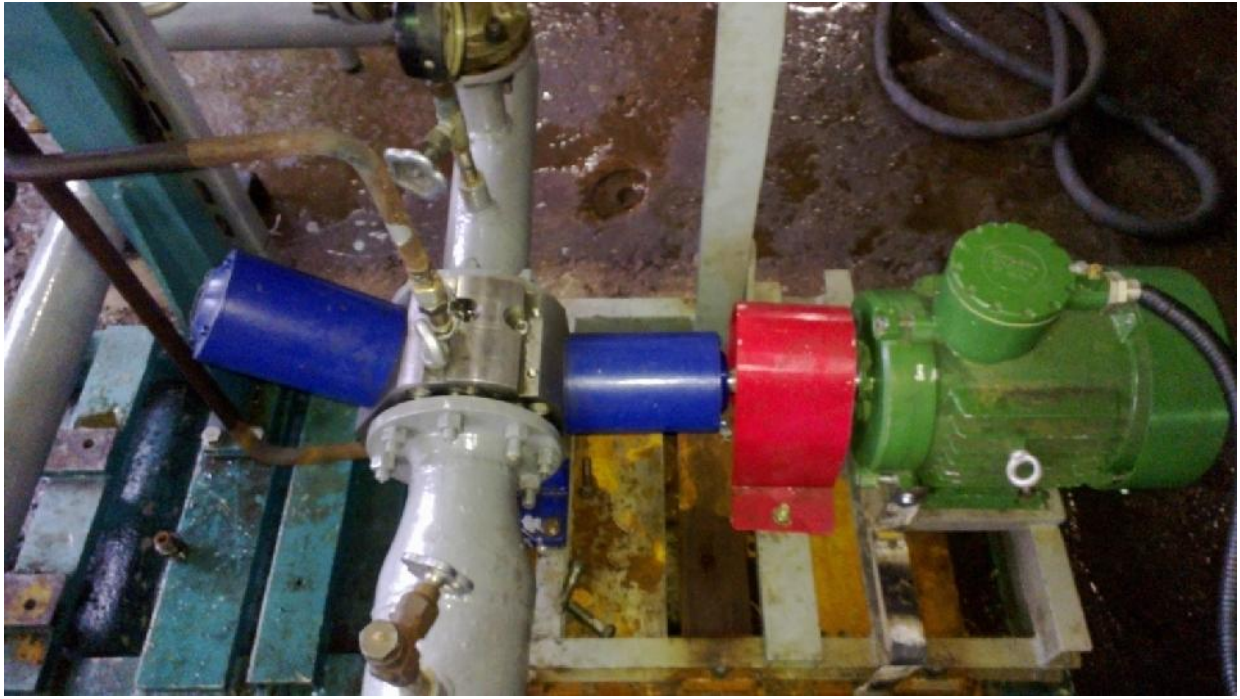
EcoVizor model Ex092 was installed in Wintershall, the largest crude oil and gas production company in Germany, to pump a mixture of crude oil and gas. The Ex092 replaced a Nemo screw pump.

Wintershall is planning to order more EcoVizor pumps to replace pumps in other positions.



2) Novoil, The Republic of Bashkortostan, Russia

At refinery Novoil in Russia, the Leistritz screw pump was replaced with the Ex195 to pump slack (30% paraffin and 70% mixture of solvents) at -20 °C.



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3) Rosecoil, Samara, Russia

Rosecoil company, specializing in the processing of petroleum products, has bought the EcoVizor Ex130 and installed in line of mixing the oil .



4) Bashneft – mining NGDU (Ishimbayneft),The Republic of Bashkortostan, Russia

Bashneft-mining acquired EcoVizor pump model Ex156 for pumping effluent. The Ex156 was put into operation in parallel with a back up mud pump and is compared to the pump NV-50/50. The position of Ex156 requires increased resistance to wear.



5) SMP Neftegaz, The Republic of Tatarstan, Russia

At SMP Neftegaz replaced the multiphase pump with EcoVizor Ex116 to pump formation fluid (mixture of gas, oil and water). Very aggressive environment, so strong corrosion resistance is required.



6) Transoil, The Republic of Tatarstan, Russia

EcoVizor model Ex092 was installed in Transoil to pump gas-oil-water mixture, which includes H_2S (hydrogen sulphide), making the pumping task complex.



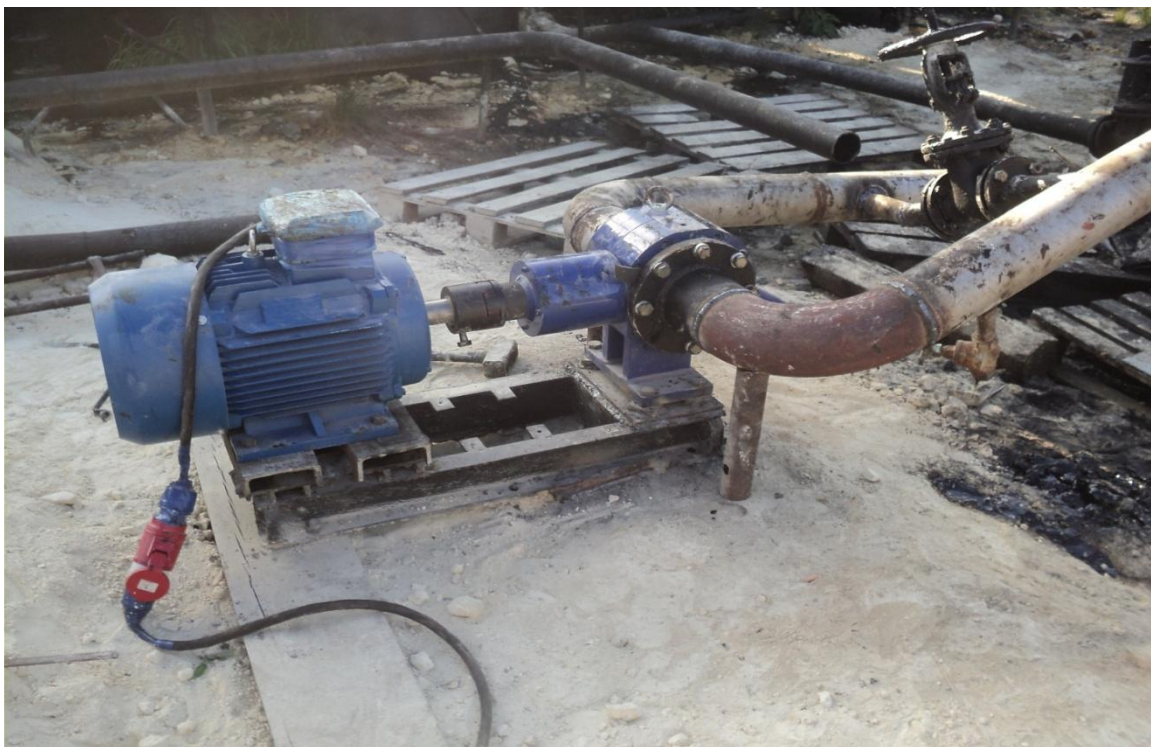
7) Bashtrade, The Republic of Bashkortostan, Russia

EcoVizor model Ex130 was installed at Bashtrade refinery to replace a bitumen pump. The pump had to pump bitumen at 160° to 190° C. EcoVizor was described as highly reliable and efficient pump during a long time period.



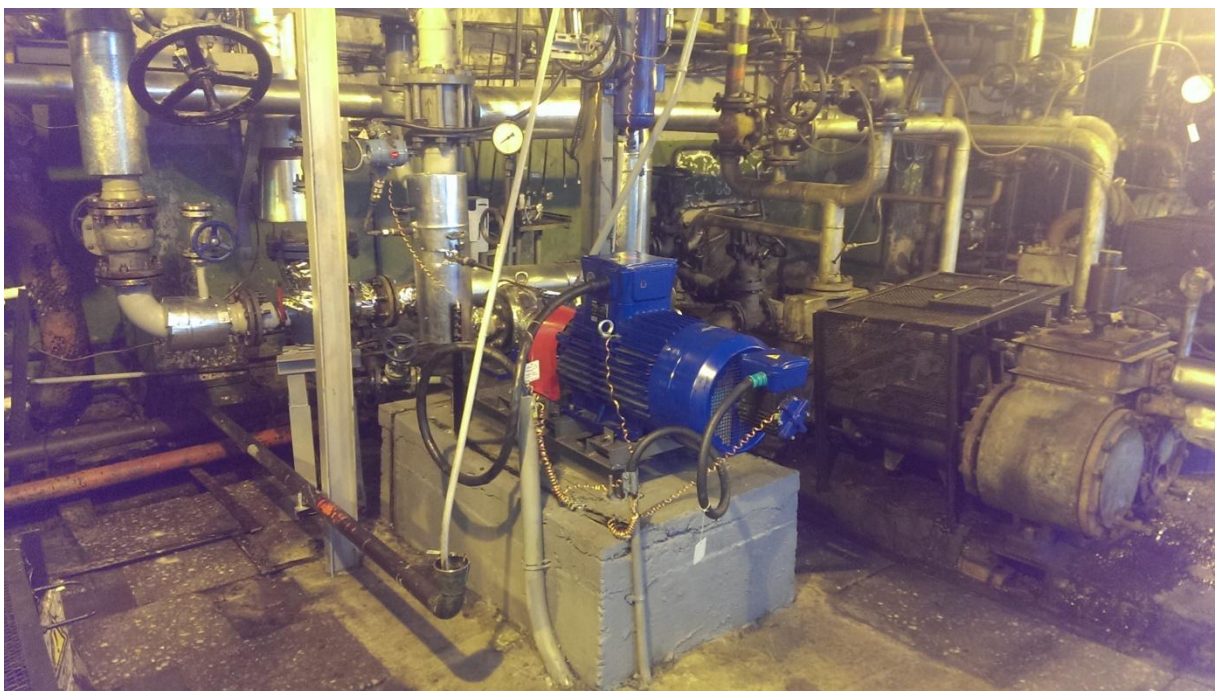
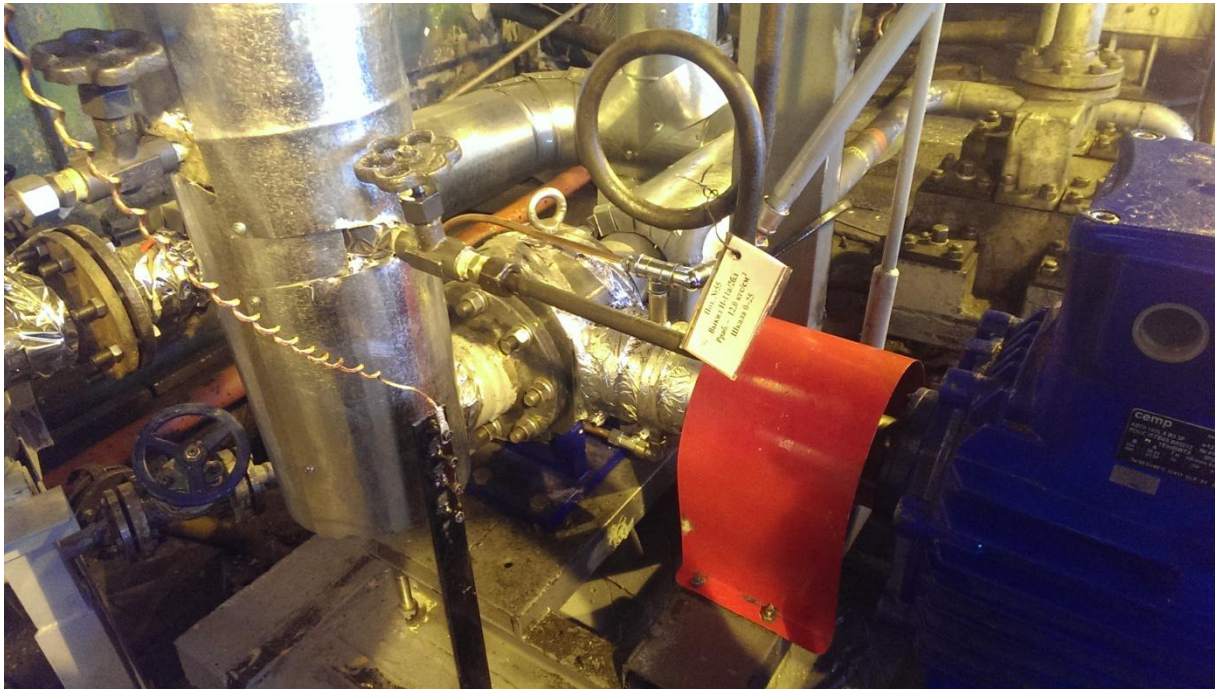
8) LFT Cribrol, Plesetsk, Russia

EcoVizor model Ex156 replaced a gear pump in a fuel oil treatment system in Plesetsk. According to the experts in Plesetsk, Ex156 increased the plants productivity due to improved oil circulation (stable flow and increased productivity), energy savings and ease of maintenance.



9) JSC Angarsk Petrochemical company, Russia

EcoVizor Ex116 (20m³/h) was installed at the Angarsk Petrochemical company (JSC ANHK) which is a subsidiary of Rosneft since 2007. The pump replaced a gear pump to pump a mixture of 80% paraffin and 20% oil from a tank park. The plant specialists noted a low level of noise and no vibrations during the pump operation.



10) Novotrade Invest AS, Estonia

In April 2014, two model Ex156 EcoVizor pumps were installed at a petrochemical company Novotrade Invest AS to offload liquid pyrolysis product (fraction C9) from railway tanks, which is a new pumping application in the company. The EcoVizor pumps were specifically chosen for that position and fully meet the requirements of the client.



INDUSTRIAL LUBRICANTS

1) Gazprom Neft, Omsk, Russia

EcoVizor model Ex050 was installed at Gazprom Neft-s plant in Omsk to pump lithium lubricants. Comparing costs between EcoVizor and the previously used English manufactured pump showed the advantage of the EcoVizor pump. After a working period, Ex050 had 80% lower energy consumption.



2) Promeco, The Republic of Bashkortostan, Russia

EcoVizor Ex130 replaced a gear pump in Promeco to pump lubricant additives. Promeco is an enterprise that produces petroleum products.

INDUSTRIAL OILS

1) Scanola Baltic (former Werol Tehased AS), Estonia

Scanola Baltic is a company that produces rapeseed oil. Ecovizor pumps (models Ex092, Ex116, Ex195) replaced Johnson lobe pumps and centrifugal pumps. As a result the maintenance costs dropped from 10 000 euros a year per unit to zero. The EcoVizor pumps operated for five and a half years without expenses on repair.



2) Chishminskoe, the Republic of Bashkortostan, Russia

EcoVizor pump model Ex050 was installed at Chishminskoe to pump vegetable oil emulsion. The EX050 replaced a Netzsch screw pump.



SHIPPING

1) Stepan Demeshev, Russian vessel

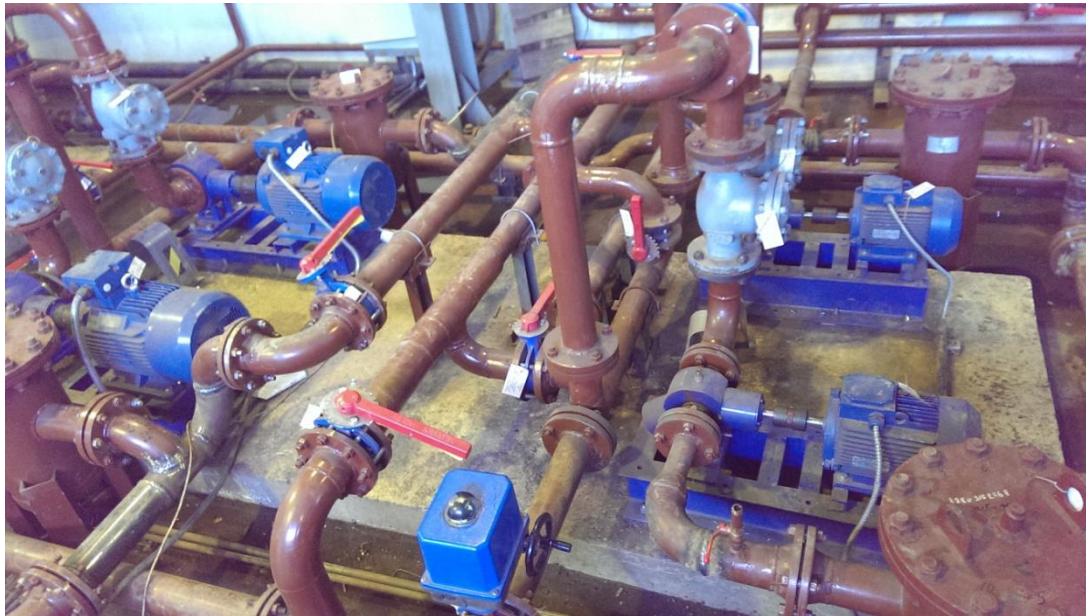
EcoVizor model Ex065 was installed on the vessel Stepan Demeshev to pump sea water. The Ex065 replaced a previously used centrifugal pump.

2) Gart Grupp, Estonia

Gart Grupp is an Estonian shipping company. EcoVizor model Ex065 was installed on one of Gart Grupps vessels to pump bilge water. To pump bilge water, a pump needs good self-priming capabilities.

WATER GLASS

CJSC "Balakovo Centrolit" installed 5 pumps to pump liquid glass. Models Ex065, Ex116 and Ex130 were installed.



SOME OF OUR CLIENTS

