



BIOENERGO

Bioenergetic company with state shareholders

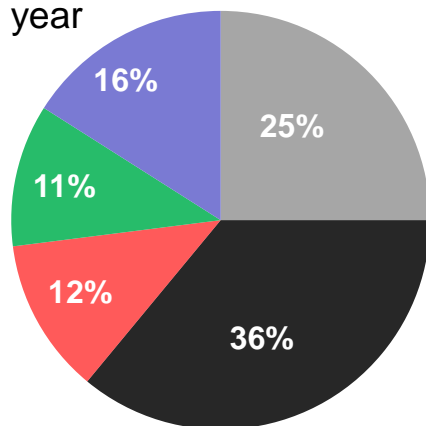
Rotterdam, 2012

Alternative energy in Europe

As a new trend, energy consumption of alternative fuels is growing most rapidly in the past few years. It is caused by cheaper technologies, and through active government support.

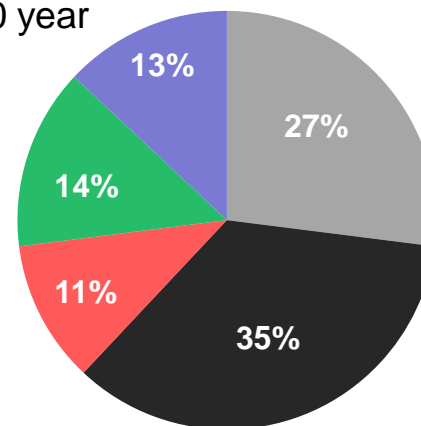
Shares of fuels in primary energy consumption in Europe (Forecast 2012 INEI RAS/REA)

2010 year



■ Gas
■ Oil
■ Atom
■ RES*
■ Coal

2020 year



■ Gas
■ Oil
■ Atom
■ RES*
■ Coal

On the horizon 2010-2020 years the alternative fuel will have the highest growth rate. Portion of the atom and coal in the structure consumption will be reduced.

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Targets of PLC “Bioenergo” in 2020 year

Enterprise Value

250 million euros

Extraction of biomass

1 250 000 tons



Production of biofuels

574 000 tons

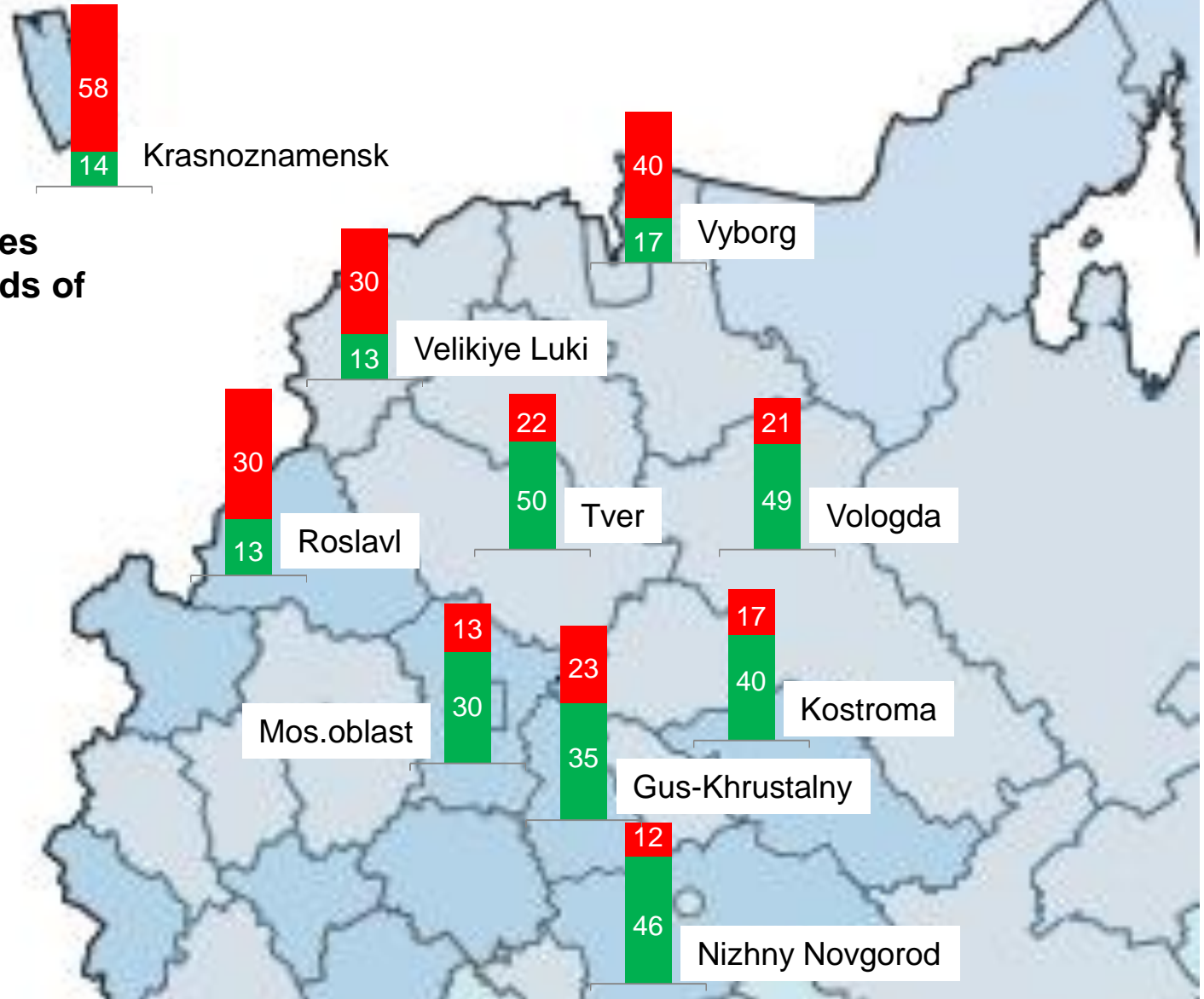


Installed thermal power boilers on biofuel **280 MW**

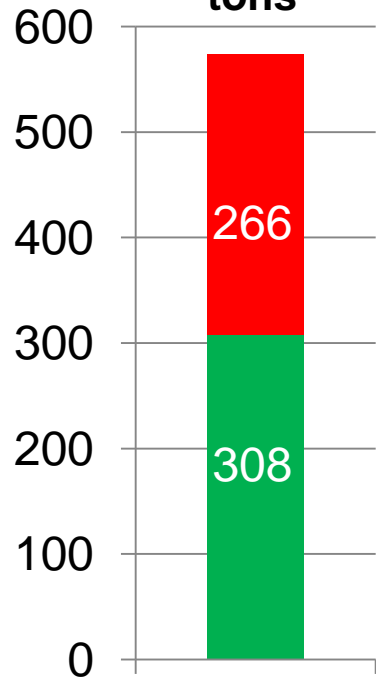


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10 regional bioenergetic clusters



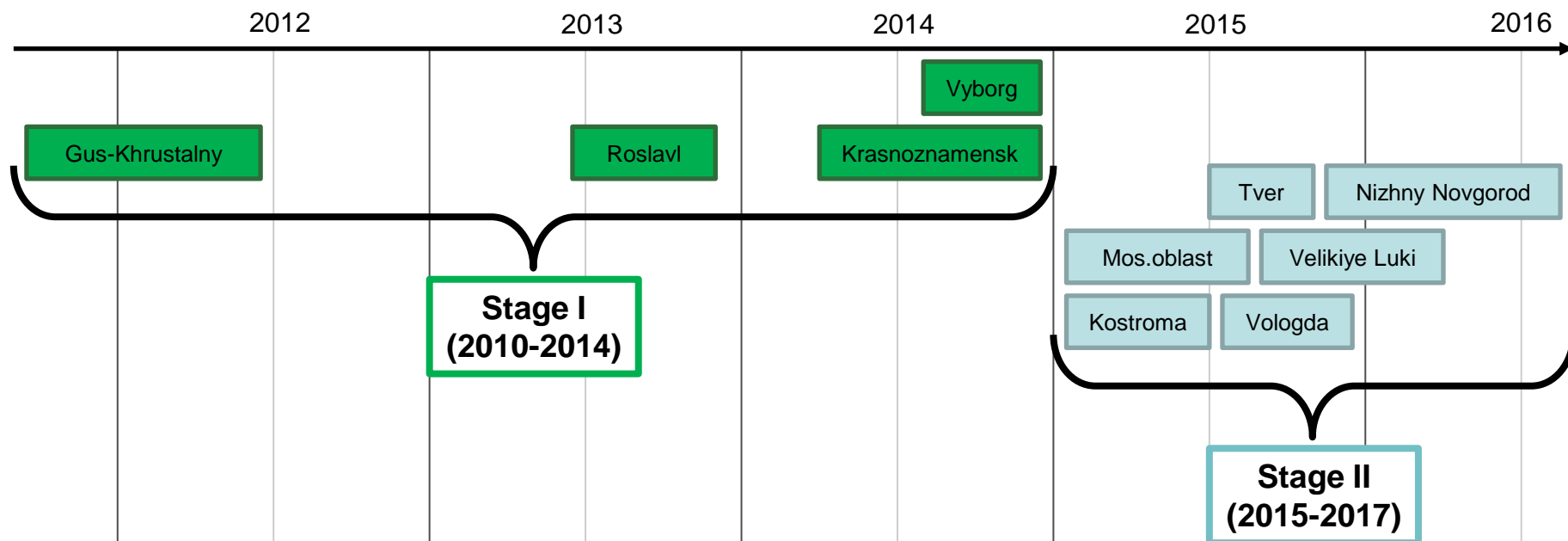
Production \ Sales
2020 year, thousands of tons



- local market (55%)
- export (45%)

Roadmap of the project

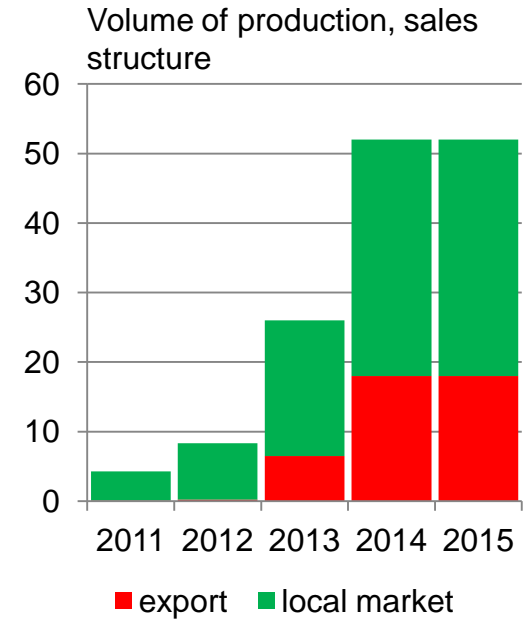
The project involves the staged implementation in order to minimize risks of investors and founders:
 Stage I (2010-2014 years), Stage II (2015-2017 years)



Summary indicators - Stage I

	2011	2012	2013	2014	2015	2016	2017	2018
Investment, thousands €	875	1 300	10 425	16 050	8 075	3 575	0	0
Total production of biofuel, tons	4 350	8 300	29 000	101 000	146 000	192 000	216 000	231 000
Export to the EU, tons	80	200	8 500	53 000	86 000	121 000	139 000	149 000

Vladimir region start of production: 3 quarter 2010 year



	2010 г.	2011 г.	2012 г.	2013 г.	2014 г.	2015 г.
Investment, thousands €	4 500	875	1 300	3 050	0	0
Total production of biofuel, tons		4 350	8 300	26 000	52 000	52 000
Export to the EU, tons		80	200	6 500	18 000	18 000

Location field: Gus-Khrystalny, Vladimir Region.

Deposits of peat: "Sulovskoe and Kor".

Area: 3700 hectares.

Recoverable reserves: 17 million tons.

License: 1,200 hectares till 2032.

Availability of raw material production: more than 100 years.

The planned processing capacity: 8 tons/hour.

Total investment: € 10 million (including € 7 million invested in 2009-2012).

Peat pellets

The main characteristics of product:

- moisture: 10%
- ash: 3 to 5%
- net calorific value (Net CV): 4350 Kcal/kg (18,2 MJ/kg, 5.1 MW/t)
- bulk density: 700-750 kg/m³, which is 10% more than wood pellets
- low hygroscopicity
- the use of ash as organic fertilizer



Peat briquettes

The main characteristics of our product:

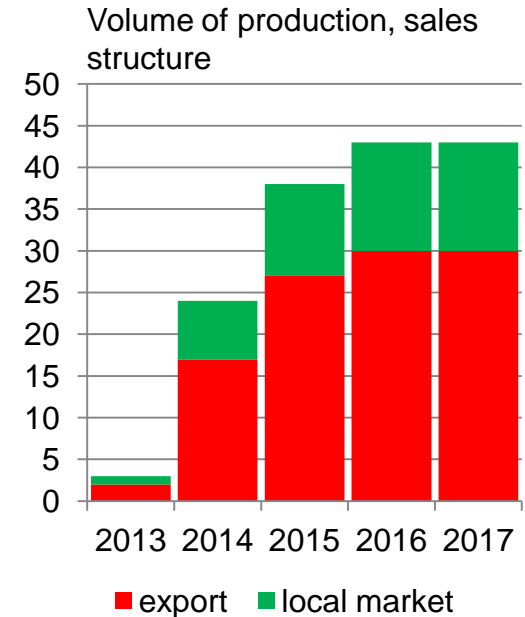
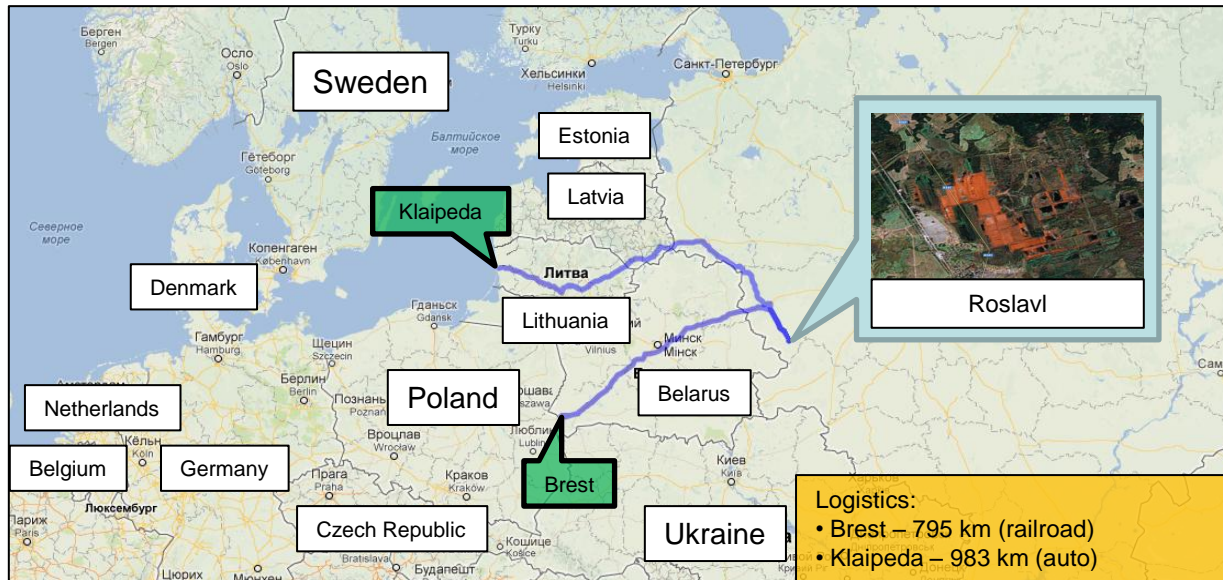
- moisture: 12%
- ash: 3 to 5%
- net calorific value (Net CV): 4150 Kcal/kg (17,3 MJ/kg, 4.8 MW/t)
- product density: 1050-1150 kg/m³

Possible to ship in bulk, Big Bag packing, 25 kg bags, 10 kg kraft bags.



The quality of the product is confirmed by international certification SGS and INCOLAB.

Smolensk region start of production: 4 quarter 2013 year



	2013	2014	2015	2016	2017
Investment, thousands €	2 500	5 175	700	0	0
Total production of biofuel, tons	3 000	24 000	38 000	43 000	43 000
Export to the EU, tons	2 000	17 000	27 000	30 000	30 000

Location field: Roslavl, Smolensk region.

Deposits of peat: "Oster".

Area: 1036 hectares.

Recoverable reserves: 3 million tons.

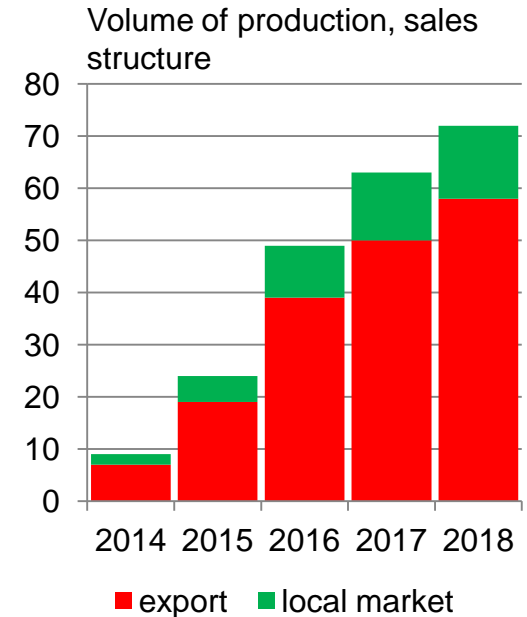
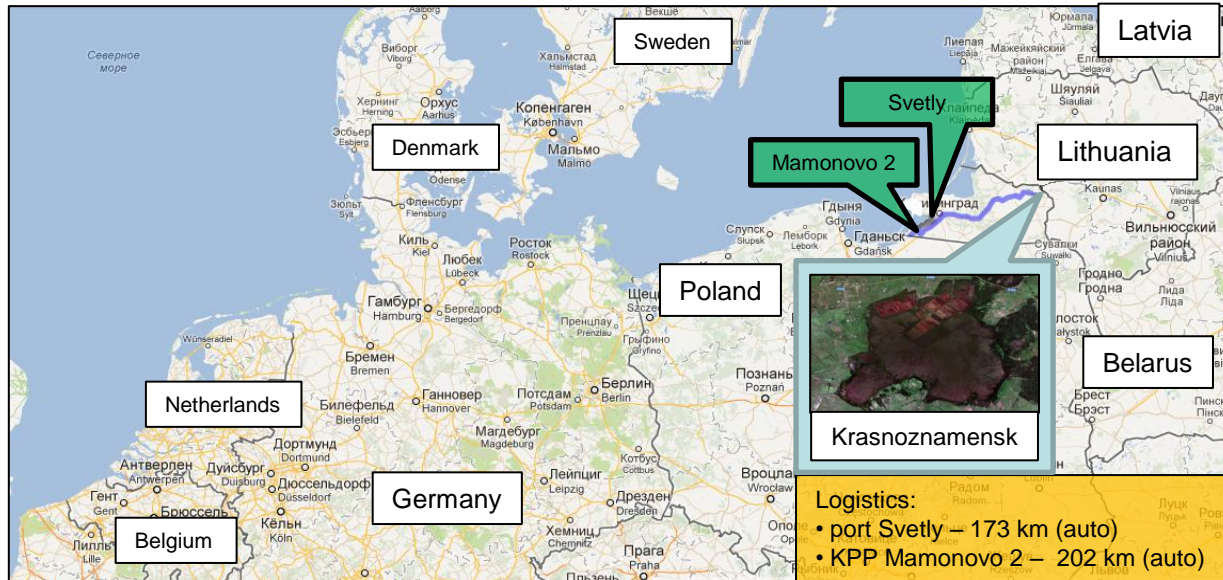
License: 355 hectares till 2025.

Availability of raw material production: 30 years.

The planned processing capacity: 6 tons/hour.

Total investment: € 8.5 million.

Kaliningrad region start of production: 3 quarter 2014 year



	2013	2014	2015	2016	2017	2018
Investment, thousands €	4 875	8 000	3 375	0	0	0
Total production of biofuel, tons		9 000	24 000	49 000	63 000	72 000
Export to the EU, tons		7 000	19 000	39 000	50 000	58 000

Location field: Krasnoznamensk, Kaliningrad Region.

Deposits of peat: "Borodino".

Area: 1852 hectares.

Recoverable reserves: 7.5 million tons.

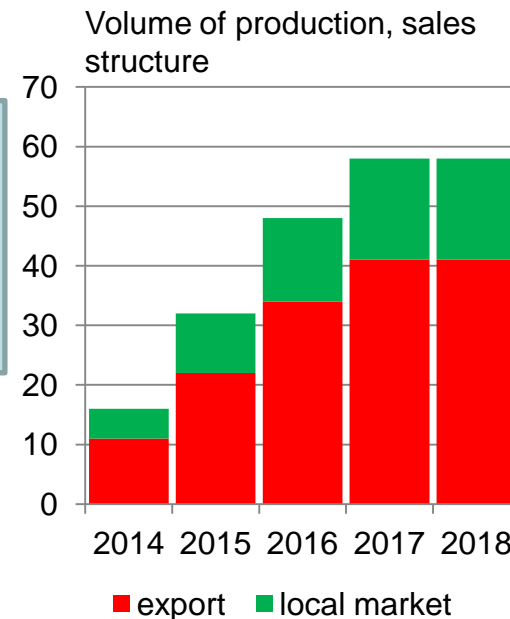
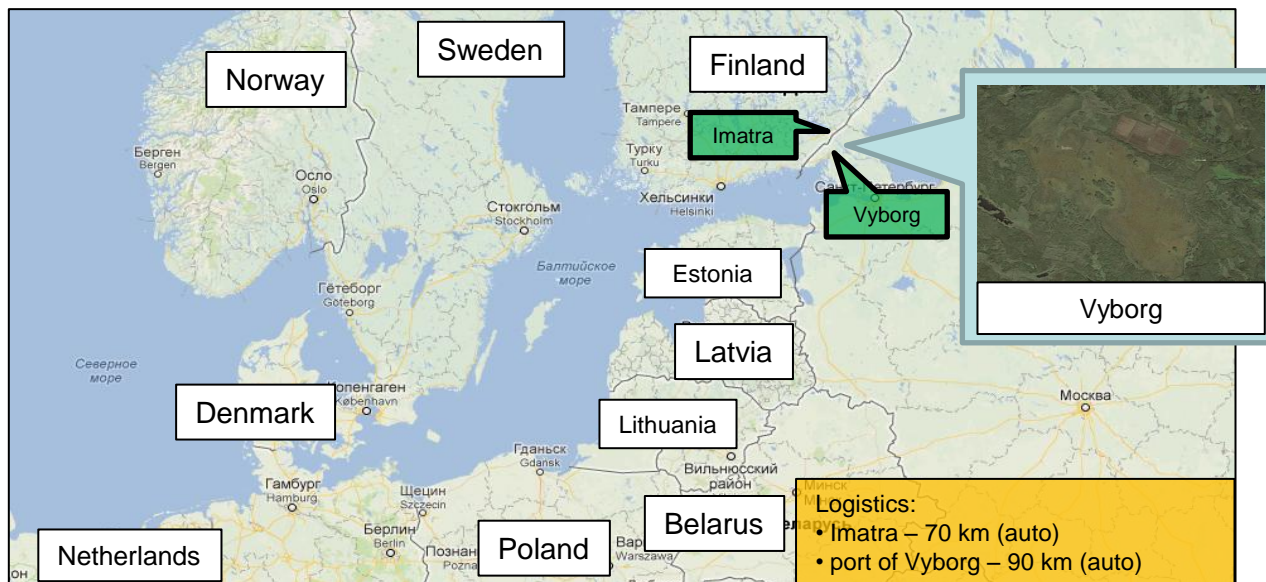
License: 522 hectares.

Availability of raw material production: 50 years.

The planned processing capacity: 10 tons/hour.

Total investment: € 16.5 million.

Leningrad region start of production: 3 quarter 2014 year



	2014	2015	2016	2017	2018
Investment, thousands €	2 875	4 000	3 575	0	0
Total production of biofuel, tons	16 000	32 000	48 000	58 000	58 000
Export to the EU, tons	11 000	22 000	34 000	41 000	41 000

Location field: Vyborg, Leningrad Region.

Deposits of peat: "Sokkala", "Iso-Suri-Suo".

Area: 1500 hectares.

Recoverable reserves: 6.5 million tons.

License: 347 hectares.

Availability of raw material production: more than 100 years.

The planned processing capacity: 8 tons/hour.

Total investment: € 10.5 million.

Financial partners



Information and consulting partners



МИНИСТЕРСТВО ЭНЕРГЕТИКИ
РОССИЙСКОЙ ФЕДЕРАЦИИ

Welcome to cooperate



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Actual information and the latest news can be found on the website:

www.bio-energo.ru

and our partners' websites:

www.enbima.ru

www.teploteka.ru

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