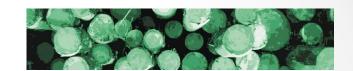
Raw materials supply. Combined logging, sawmilling and woodworking companies in Russia



















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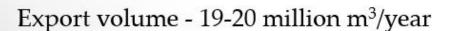
Total volume of roundwood logging in Russia

Russia may harvest 704 million m³/year According to the FAO - 670 million m³/year Harvesting – 236 million m³/year

Plans for 2030 - 286.1 million m³/year









The current situation on the market of wood products

	Год									
Products	2010	2012	2013	2014	2015	2016	2017	2018		
Lumber, million m³	21,9/28*	21,2/29*	21,7/33,5*	21,5/32*	22,0/32,5*	22,8/33*	25,9/37 (export 29,7)	26/40 (export 31-32)		
Plywood, million m ³	2,7	3,2	3,3	3,6	3,7	3,8	3,7 (export 2,47)	4,0 (export 2,6-2,8)		
Chipboards, million m³	5,4	6,8	6,6	6,8	7,2	7,3	8,4	9,7		
Fiberboard, million m²	404	469	427	469	502	554	591	649		
Fuel briquettes and pellets, mln. tons	No data	No data	No data	0,89	0,95	1,0	1,4	1,44		
Wood chips, million solid м³	No data	No data	No data	No data	No data	No data	7,3	No data		

The proportion of harvested wood used for wooden

housing

212 million m³/year



2017 z.

1,13 %

2,4 million m³/year. including glued wooden structures - 0,4-0,45 million m³/year.)



2030 r. - forecast



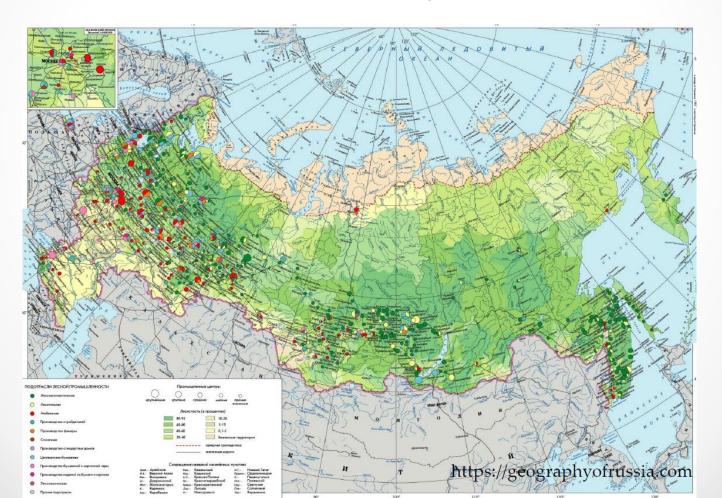
1,5 %





Export oriented industry

Domestic consumption lags far behind the production of wood products, which are mainly exported to China and Europe



Consequences of production growth in

economically accessible regions



Increasing the distance hauling 200-400 km



Tendency to decrease the diameter of round timber





Lack of raw material





Understatement of the age of maturity of wood

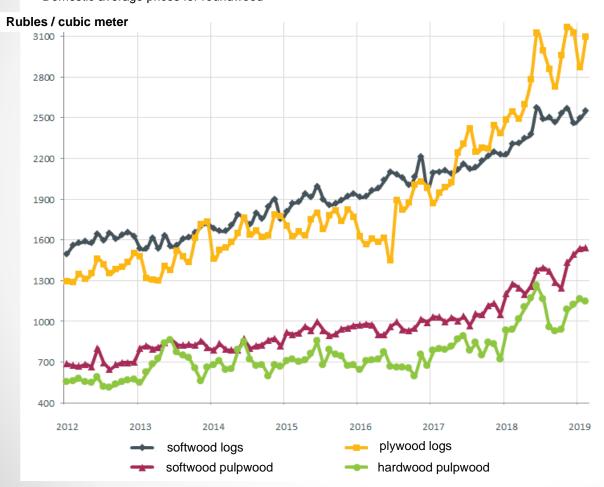






The cost of roundwood for the manufacture of lumber and plywood is growing

Domestic average prices for roundwood



According to the enterprises, the cost of raw material reaches 4800 rub/m³

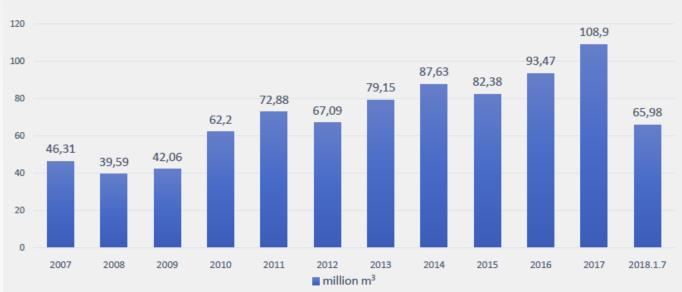
 $\approx 65-68 \text{ euro/m}^3$



Source: Federal State Statistics Service of Russia

New plants are under construction, but the customers has lessoned their consumption





From January to July 2018, China imported about 65.98 million cubic meters wood with an increase of 7.5%, among this, about 35.51 million cubic meters was log with an increase of 14.5%, and sawnwood was 21.45 million cubic meters with an increase of 0.3%.

The total value of import was 12.85 billion USD, increased by 16.5%.

С января по июля 2018 года Китай импортировал около 65,98 млн кубометров древесины с увеличением на 7,5%, из них около 35,51 млн кубометров бревна с увеличением на 14,5%, а пиломатериалы составили 21,45 млн кубометров с увеличением на 0,3%. Общая стоимость импорта составила 12,85 млрд долларов США, увеличившись на 16,5%.



Results 2018 China's sawnwood imports - 36.74 million m³

We should expect competition between Russian sawmills for consumers in foreign markets

Russia's share in the global sawnwood production is 10-11%.







- A large number of «greenfield» projects
- Increased production capacity of sawmills
- Deficit and rising cost of raw material
- Safety raw material implies a minimum amount of 25% of its own harvesting supply

The main vector of development is not the search for investment, but the search for a new forest resource base, which allows further development



How to get the forest resources base?

- 1. Rent through auction
- 2. The List of Priority Investment Projects in the Timber Industry (In the implementation of projects on modernizing timber processing infrastructure, including reprocessing of waste wood (among other things for bioenergy purposes), the minimum capital investment should be not less than 500 million rubles; in the implementation of projects on creating new forest and timber processing infrastructure, including reprocessing of waste wood (among other things for bioenergy purposes), the volume of capital investments should be not less than 750 million rubles.

The most effective measure of state support of enterprises of the Russian timber industry is the provision of a preferential rental rate for forest plots with a coefficient of 0.5 until reaching the payback period of investments, which should be in the range from 3 to 10 years.

3. The idea of priority forest resources obtaining by Russian enterprises engaged in wood processing (in developing) The Ministry of Natural Resources and Ecology of the Russian Federation has formed a regulatory legal framework for the implementation of the mechanism for leasing forest areas based on the results of tenders. A special feature of the provision of forest plots is that wood processing enterprises no longer bargain at an auction for the right to conclude a forest plot lease agreement, but receive a resource based on a tender, where the depth of wood processing matters.

The priority in obtaining forest resources is given to enterprises that have their own wood processing facilities. It uses open information about forests and applies the declarative principle.

Technological integration

It is necessary to introduce sawing processes in the harvesting industry, which will allow to process the entire volume of harvested wood, including pulpwood and low quality wood.

Long distance to consumers today makes pulpwood and low quality wood unclaimed. This is due to the insufficient amount of pulp and paper enterprises and boiler houses on chips.

Harvesting - 236 million m³/year



Sawlog	Plywood log	Pulpwood	Export of round timber	Left in the forest	Other Wood-based
82-85 million m³/ year (35-36%)	8-8,5 million m³/year (3,4%)	34-35 million m³/ year (14,5 %)	19 million m³/ year (8 %)	20 million m³/ year (8,5 %)	panels, biofuels, firewood

Harvesting

A priority













If trends continue, cheap wood in Russia can no longer be a major competitive advantage in world markets in the long run

The advantage of loggers with their own rental base. Logging companies are organizing their own sawmills, increasing competition in the lumber market

Sawmill companies find it difficult to compete with each other for raw materials on the open market. They form their own loggers plant









Technological integration will increase the production capacity, effective process raw materials of different species, length and destination at different stages of the production process, which can be arranged either in the form of specialized enterprises, either in the forest or on timber yards

- Consolidation of enterprises
- Diversification of production flows
- Creating separate companies performing partial processing of wood in the forest
- Involvement in the processing of hardwood and low-quality wood

Consolidation - the ULK group of companies



Enterprises of the ULK group of companies in 2018 has harvested more than 2 million m³ of round logs

In 2019, all timber industry enterprises will need to process about 4 million m³ of round logs.

In 2018, the Ustyansky timber industry complex has started up a small-size wood processing plant. The total sawn timber production by the Ustyansk timber processing plant in 2018 was about 500 000 m³



Diversification "Luzales"

Kydziavidz village, Priluzsky district

- Logline # 1
- Logline # 2
- Pallets and pallet's production

Syktyvkar

- Sawmill
- Block house production
- Gluelam manufacturing
- Planner mill, MXM panels
- Further procesing

The expected demand for aggregate raw materials for the company's sawmills was 1.2 million m³ in 2018,

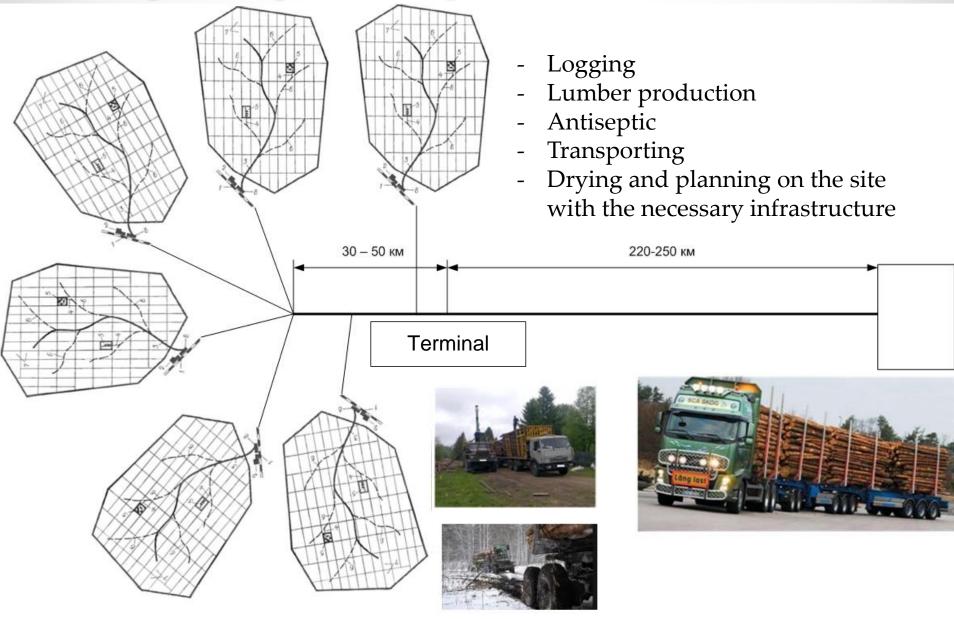




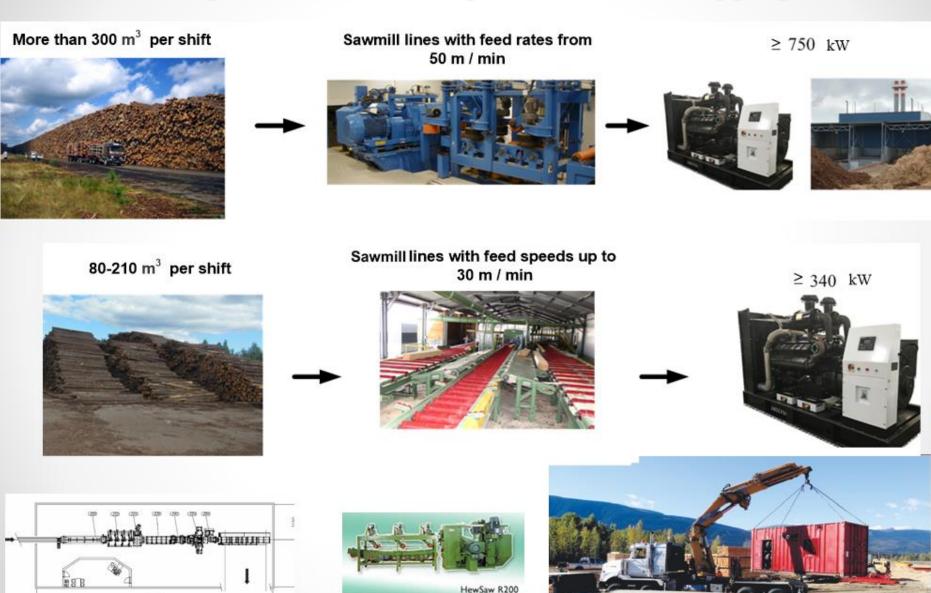




Creation of separate enterprises engaged in partial processing of wood in the forest



Thin loglines can be transported into the logging site



micremill

USNR.

Hardwood processing







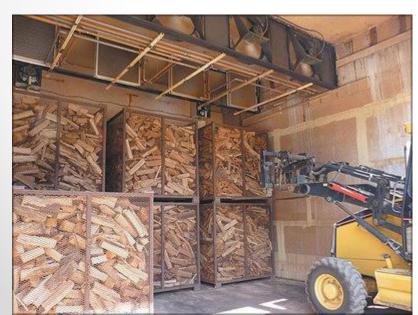




Hardwood processing









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THANKS FOR ATTENTION!













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