



POMOR**INNOVALES**

innovative timber industry cluster
of the Arkhangelsk region

The structure of the timber industry innovative territorial cluster of Arkhangelsk region "PomorInnovaLes"

The core of the cluster: JSC "Arkhangelsk Pulp and Paper Mill", Titan Ltd.

JSC "Arkhum", JSC "Sawmill 25".

Coordinating organization - JSC "Arkhangelsk regional Development Corporation"

Municipalities of the cluster localization :

- Novodvinsk, Arkhangelsk, Plesetsky, Pinezhsky, Primorsky, Kholmogorsky Districts of the Arkhangelsk region.

Governmental structures of the Arkhangelsk region:

- The Ministry of Economic Development and competition policy;
- Ministry of Natural Resources and forestry;
- Ministry of Education and Science;
- Transport Agency;
- Ministry of Energy and Housing;
- Ministry of Industry and Construction.





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30

participants

The core of the cluster:

"JSC Arkhangelsk Pulp and Paper Mill",
Titan Ltd. JSC "Arkhbum", JSC "Sawmill 25"

Coordinating organization -

JSC "Arkhangelsk regional
Development Corporation"

Cluster members activity kinds:

- Logging
- Sawmills, woodworking;
- Pulp and paper industry;
- Plywood and furniture production;
- Wooden housing construction;
- Bioenergetics;
- Timber and it's products transportation;
- Forest engineering, metalworking;
- Forestry science, education, engineering;
- Service, spare parts, market infrastructure, NGOs.

Municipalities of the cluster localization:

Novodvinsk, Arkhangelsk, Plesetsky, Pinezhsky,
Primorsky, Kholmogorsky Districts of the Arkhangelsk region

**Creation of forest breeding and seed production center
using modern technology micropropagation, production of bio humus, creation of
fast-growing forest plantations in vitro**

To implement this project in the Arkhangelsk Pulp and Paper Mill has acquired ownership of the production capacity of the liquidated agricultural greenhouse complex, located in Novodvinsk, Arkhangelsk region.

As part of a property complex:

- Prepared ground;
- Administrative buildings;
- A platform for placing landfill rearing (hardening) of the seedlings (needs repair);
- There is a connection point of water supply (drainage), electricity;
- There are access to roads.

Purpose: growing seedlings with closed root system.

Wood species - pine, spruce, larch. Seed production of softwood (pine, fir, larch)

Annual capacity: Maximum yield 5.970 million seedlings, 2,000 kg. seeds of conifers.

The estimated cost of the creation of capital construction turnkey (in prices of 2010) - 325 million Rubles.



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Establishment of forest breeding and
seed production center on public -
private partnership principles in
Novodvinsk

PROJECT:

FOREST BREEDING AND SEED CENTER

PROJECT
PARTICIPANTS:



ФБУ «СевНИИЛХ»
ООО «НордТехСад»
ФХ «Биолаборатория»



Федеральное агентство
лесного хозяйства



Архангельская область
КОРПОРАЦИЯ РАЗВИТИЯ

Industrial technology development of wood ashes pelleting without chemicals for mass use in agriculture

Wood ash is a fertilizer complex it contains two and more elements.

A granulated ash comprises macroelements, phosphorus, potassium, magnesium, manganese, sulfur, calcium, iron, et al., As well as trace elements: zinc, copper, molybdenum, cobalt.

An attractive feature of this product is its new granular format.

The size of the granules is 2 to 4 mm, which is convenient for packaging and transportation, it is easy to deliver by any kind of transport in containers or bags, it is convenient to put it into soil using any kind of agricultural machinery.

The pellets are strong enough, eliminate dusting, and hence reduced production losses during use, as well as more favorable conditions of work of staff.

Storage of ash in the pellets provide a longer shelf life in an airtight container.

Objectives of the project:

- 1) the establishment of production capacity of 11 400,00 tonnes
- 2) receipt of proceeds from the sale of 68.4 million Rubles per year
- 3) Disposal of waste 10 450,00 tons per year.

The total investment costs of 40.5 million. Rubles.

Project start date: 01.01.2016

The duration of 5 years.

NPV: 50 million Rubles

Payback period 4 years



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Production of environmentally
friendly complex fertilizer of
prolonged action -
granulated wood ash



PROJECT:

GRANULATED WOOD ASH

PROJECT
PARTICIPANTS:



Архангельский
целлюлозно-бумажный
комбинат



Архангельская область
КОРПОРАЦИЯ РАЗВИТИЯ





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