Export of biomass from Russia in the context of climate change policies

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ECE Timber Committee
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Core activities

- Sustainable development of the forest sector
- Customs cooperation
- Timber port logistics
- Trade facilitation procedures
- Biomass trade logistics
Recent activities in 2003

- Conference on “Sustainable development of the Forestry Complex of Northwest Russia and expanding interaction with EU countries in environment protection”
  (11-12 September, St. Petersburg)

- Workshops at the 5th International Forestry Forum “Russian Timber Complex in the XXI century”
  On Timber Port Logistics
  On Sustainable Development
  (14-18 October, St. Petersburg)

- Conference on “Sustainable Development Strategies at enterprise level”
  (9-10 December, St. Petersburg)
The Russian Federation
Biomass as Alternative Energy

“Organic matter available on a renewable basis including forest residues, wood and wood waste.”
Vast forests resources
Timber Resources of Russia

North-West Federal District
Resources - 8063.0 million m³

Ural Federal District
Resources - 6885.0 million m³

Far-East Federal District
Resources – 21023.0 million m³

Siberian Federal District
Resources – 30718.0 million m³

Privolzhsky Federal District
Resources – 4053.0 million m³

North-Caucasian Federal District
Resources – 539.2 million m³

Central Federal District
Resources – 2317.0 million m³

St.-Petersburg

Moscow

Nizhni Novgorod

Ekaterinburg

Rostov–on-Don

Novosibirsk
Biomass
EMO terminal Rotterdam
Rotterdam

St. Petersburg/Leningrad Oblast

Dry Bulk/Coal stevedore + Blending pellets with coal

Energy pellet factory

Woodchips

Power Plants

Bulkcarrier containers + containers on deck

Power Plants

Saw mills

Delivery of roundwood from forests

Transport mode

Rail

Road

Inland shipping

Delivery of BioMass from forests

Delivery of BioMass by Inland shipping

U N E C E
One of the final destinations

Amer powerplant
water depth 4 m.
expected volume
biomass approx
1 million tons
Large scale international bio-energy trade

Advantages:

• CO$_2$-neutral biomass resources are utilised efficiently on a large scale
• New markets may generate substantial income sources for relatively poor world regions
• Energy markets world-wide may become more stable due to a large number of energy suppliers compared to the current situation
Bio-energy trade

- Direct transport of biomass materials  
  (*chips, logs, bales*)
- Intermediate energy carriers  
  (*such as bio-oil or charcoal*)
- High-quality energy carriers  
  (*such as ethanol and methanol, or electricity*)
A new market opportunity

Bio-trade schemes have a very large potential to mitigate GHG emissions and contribute to sustainable development.

They could be a key component of the future world’s energy system.
Opportunities

- Sustainable logistics chain
- Certification of woody biomass
- Coordinated approach
- Training at enterprise level
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