

# Agenda 2011-11-09

- Short introduction of Avec Group
- Review of projects performed in Karelia since autumn 2010 with Nefco funding
- Overview of the Russian Federal programme for energy saving/energy efficiency
- Presentation of Nefco frame budget of 3 million sek(Barents Window) for 4 individual projects based on previous work with Energy plan Kostamuksha as a platform

# AVEC GROUP-Erik Sollén

- Russia since 1998
- Owner and General Director Avec Group 2007-
- Consulting and project management within: *forest technology, communal infrastructure, logistic, financing*
- Import of sawn timber from Karelia to Scandinavia
- [www.avecgroup.se](http://www.avecgroup.se)



# Feasability study, Nov 2010-June 2011

- **"Eco Efficient Communities" – Sustainable Use of Renewable Resources in the Republic of Karelia**
- Main objective: "Provide an overview of the potential for creation of eco efficient communities in 5 selected Karelian municipalities, creating certain model areas either by improving/modifying existing areas or by creating new ones". Focus on 3 technical key sectors

# Key technical sectors

*(examples of conclusions)*

- **Energy efficiency/energy saving** (*no cities have Energy plans*)
- **Waste management**(*no sorting of waste, landfills "out of control"*)
- **Waste water/sludge treatment**(*some cities have no waste water treatment, all cities have sludge problems*)

# Energy plan Kostamuksha

## Apr – Aug 2011

- Energy planning in a city from fuel through distribution, transportation until the final product – heat and/or electricity
- How is the energy produced and how do we use it ?
- Type of fuels ?
- Losses in distribution ?
- Efficiency in production
- Collection of statistics for different kind of buildings, houses etc
- Final report with action plan proposing certain steps for energy saving and increased energy efficiency
- Pilot project for Russia

# Russian Federal Programme

- Important to highlight the fact that the Russian government has decided about a huge program for energy saving and energy efficiency. The highlights from this program are for example:
- 35 billion USD will be used for energy efficiency until year 2020
- The energy intensity in Russia will be lowered by 40 % until 2020.
- Energy consumption within all budget-financed organisations should be reduced with minimum 15 % during the coming 5 years.
- 65-70 % of the equipment for production of electricity and heat is considered to be worn out
- Russia will invest 113-114 billion USD in alternative energy sources until year 2030
- The Russian government will co-finance regional and communal programs for energy saving and energy efficiency. Its very pleasant that this decision is taken by the Russian government in this moment. It will be of help in our efforts from Västerbotten and give better understanding and support from governmental levels for implementation of local projects in Karelia.

# Project frame financed by Nefco Total 3 million sek, 3-4 projects in Kostamuksha

Focus on Kostamuksha as a "model territory"

1. Use of surplus heat from iron pellet production in Kostamuksha to heat the city. Will give substantial reduction of oil consumption
2. Implementation of the Energy plan
3. Technical solution for renovation/modernization of plant for waste water/sludge treatment in Kostamuksha
4. Practical tests of different instruments, measuring devices etc with purpose to improve energy efficiency and climate control (*requested from Russian federal level*)

# ROAD and RAILWAY NETWORK

