



ENERWOODS - woodbased Energy Systems from Nordic Forests

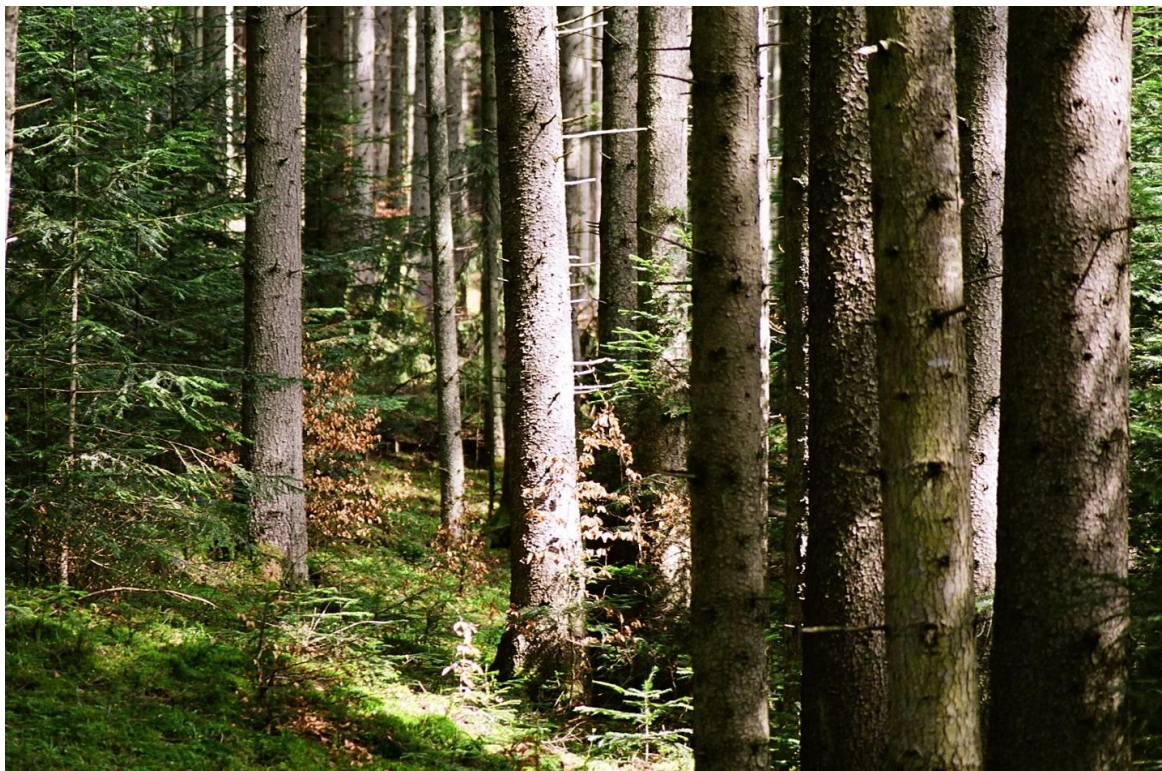
Palle Madsen &
Professor &

Vivian Kvist Johannsen
Senior Researcher, Head of Section



ENERWOODS

www.ENERWOODS.dk



Nordic countries have ambitious goals

- fossil free by 2050

Nordic and Baltic forests contribute already

- but their potential is greater

To ensure this

- forests must be more productive, stable and healthy

Forestry, energy industries and science need to cooperate

- development of woody biomass systems
- optimal use
- ensuring sustainability



ENERWOODS:

The idea



Wood based energy systems from Nordic forests

The objectives were

1. A considerable increase in forest productivity
2. Optimize systems for woody biomass linking forestry and consumers.
3. Balancing trade-offs between carbon sequestration and displacement
4. Balancing integration versus separation of forest functions
5. Efficient implementation of the research findings in the management of forests and the woody biomass systems

With a set of partners spanning the Nordic and Baltic countries

ENERWOODS:

Project objectives, challenges and content...



Review and provide scientific results to strengthen the role of Nordic forestry in feeding biomass into cost-effective and renewable energy systems

WP1 – Productive forest management

Develop and recommend high-productive silvicultural methods, systems and strategies:

- Productivity of Nordic forests
- Tree species and genetic material
- Fertilization
- Environmental values
- Opportunities and risks of an unknown future



ENERWOODS:

Project objectives, challenges and content...



WP2 - Forestry logistics

Optimized supply chain technology and logistics for

- Higher woody biomass production
- Long distance transportation
- Precision supply
- Trade offs between carbon displacement and sequestration of the woody biomass supply chain



Stockholm, 27. August 2015

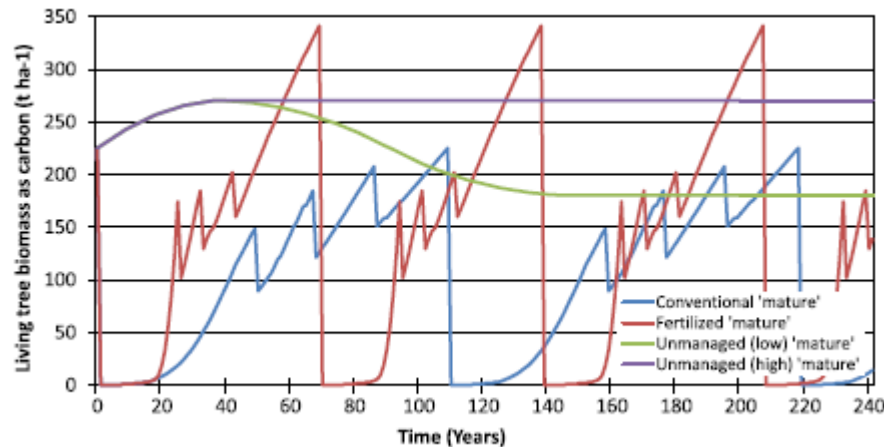
ENERWOODS:

Project objectives, challenges and content...

WP3 - Strategic analyses of woody biomass energy systems

- Identify cost- and energy-efficient systems to optimal utilization of woody biomass energy
- Optimize systems to maximize society's benefits given limited land areas and environmental constraints

S. Haus, L. Gustavsson, R. Sathre 2014



Stockholm, 27. August 2015



ENERWOODS:

Project objectives, challenges and content...



WP4 - Involving end-users

- A strong Advisory Board, thematic days and demonstration plots
- essential for dissemination and implementation of research findings
 - a source of inspiration and information from practice



Stockholm, 27. Augst 2015



ENERWOODS:

International Conference – 27. August 2015

Session I – ENERWOODS Results

Presentations from partners in ENERWOODS

Discussion and questions

Session II - ENERWOODS in practise and perspectives for the future and the global outlook.

Invited speakers provide overview and inspiration for next generation Nordic – Baltic forestry and for future and better uses of wood and woody biomass.

Discussion and questions

LET'S GET STARTED

