

Training course BLTC

Experiences from previous projects!

26th May 2007

Graz

Previous Projects

- „SO_Watt“, wood biomass supply in the southern part of Austria (finished)
- Optimization of regional stock flows by Biomass Trade Centres (ongoing)

„SO_Watt“, wood biomass supply in the southern part of Austria

Das Projekt wird im Rahmen der Programmlinie „Energiesysteme der Zukunft“ – einer Initiative des Bundesministeriums für Verkehr, Innovation und Technologie (BMVIT) – durchgeführt.

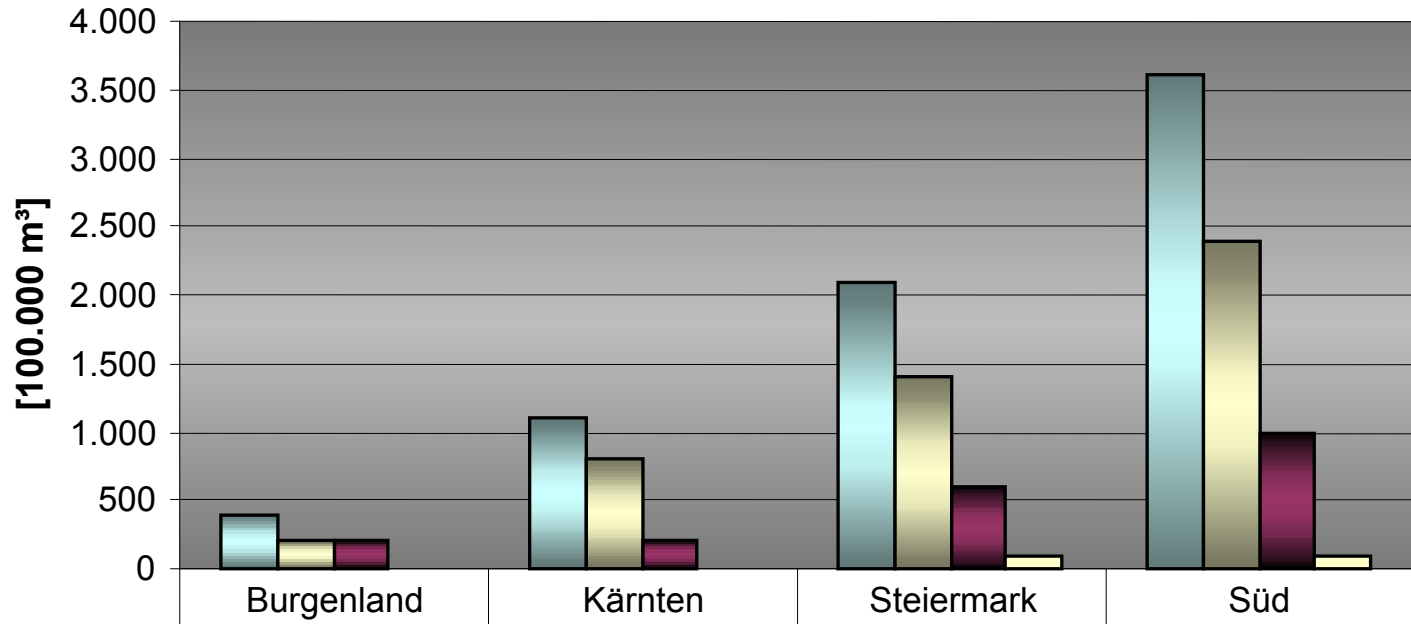
Projektinhalte

- Idea:
 - Sustainable supply of biomass in the south of Austria
 - Efficient and cheap supply of biomass feeding the increasing demand for wood biomass
 - Enforcement of value creating systems in rural areas in the South of Austria

Results

- Market analysis
- Analysis of forest owners
- Pilot project – mobilization
- Analysis of associated fields – Expectations
- Standard logistik chain
- Management Modells

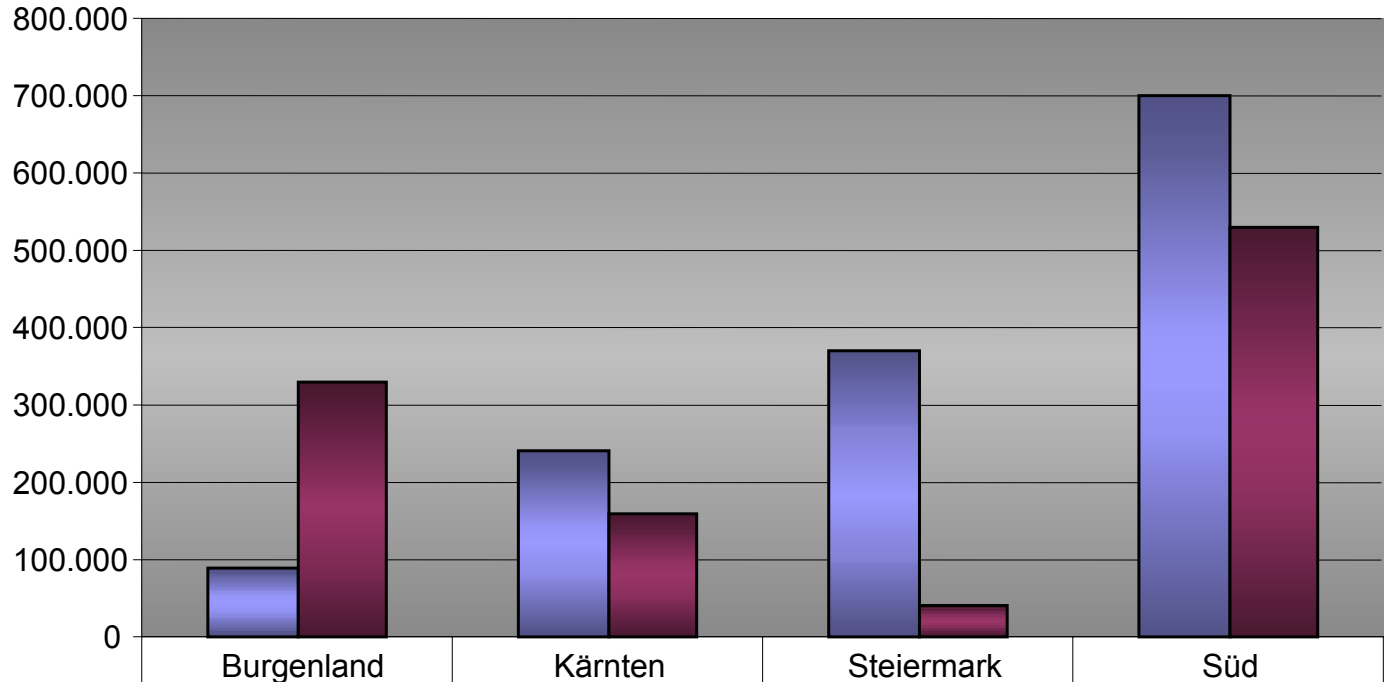
Biomass Potential in southern Austria



■ Total	400.000	1.100.000	2.100.000	3.600.000
■ < 200 ha	200.000	800.000	1.400.000	2.400.000
■ > 200 ha	200.000	200.000	600.000	1.000.000
■ ÖBf AG	0	0	100.000	100.000

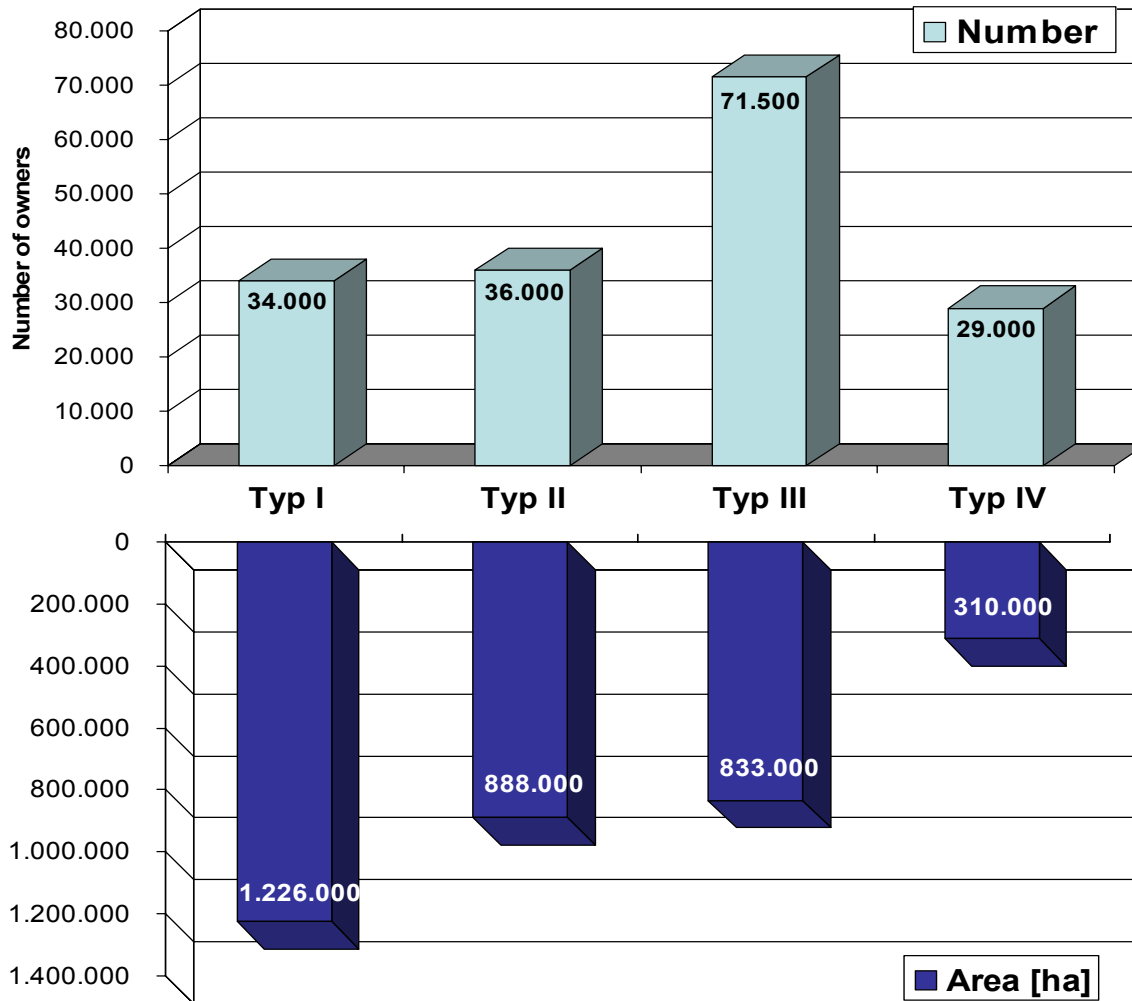
Demand for biomass in southern Austria

(CHP-plants a. heating plants)



■ Running	90.000	240.000	370.000	700.000
■ Started (June 2007)	330.000	160.000	40.000	530.000

Groups of „Forest owners“



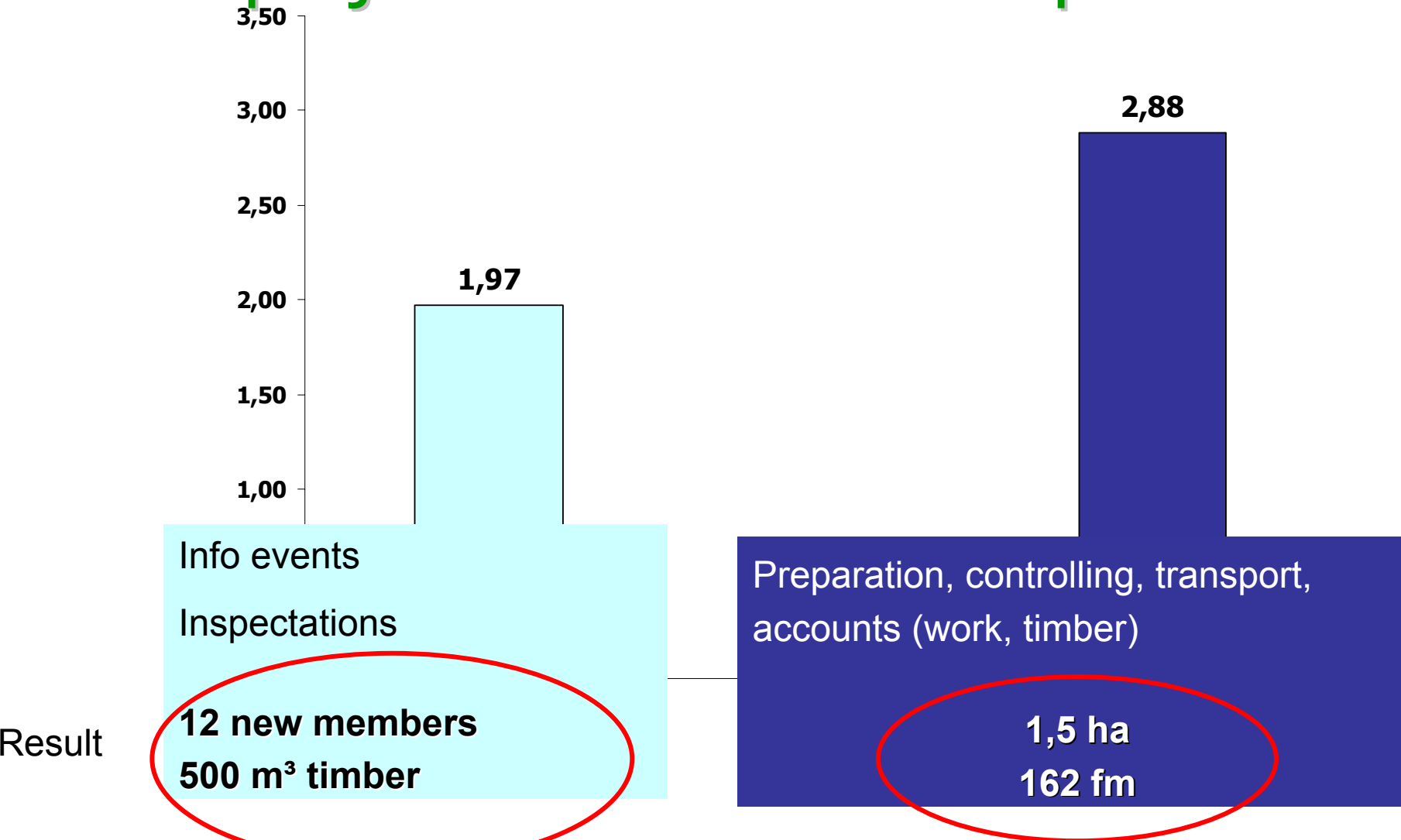
- **Typ I:** „Lone warriors“
- **Typ II:** Willing to cooperate and forestry skills
- **Typ III:** Willing to cooperate and limited forestry skills
- **Typ IV:** No utilisation

Quelle: eigene Berechnungen, Pelzmann, Ruschko

Pilot project „Mobilization“

- Poll by telefon (utilisation habits, forestry equipment,.....)
- Information events
- Inspectations with forest owners an consulting

Pilot project mobilization - Loipersdorf



Field analysis - Expectations

- **Forest owners:**
 - Biomass for their own usage
 - Information and consulting
 - Profit, at least no financial loss
- **Enterprises:**
 - Working plans for (at least half/year)
 - Advice in logistics
 - One stop shop
 - Transparency
- **Industrie (Paper industrie, heating plants operators...):**
 - Increase of quality
 - Specific assortments
 - Increasing amount
 - Continuous supply
 - Minimize storage costs
 - One stop shop
- **Waldverband:**
 - New customers
 - Market strengths
 - Leadership in biomass
 - Link forest owners – industrie
 - Controlling the biomass distribution

Management Modells



- Purchase of standing timber
- Full service
- Leasing modell
- Forestry plan „light“

Optimization of regional stock flows by Biomass Trade Centres (ongoing)

Das Projekt wird im Rahmen der Programmlinie „Energiesysteme der Zukunft“ – einer Initiative des Bundesministeriums für Verkehr, Innovation und Technologie (BMVIT) – durchgeführt.

Projektpartners

- Waldverband Steiermark GmbH
- Landeskammer für Land- und Forstwirtschaft Steiermark
- Universität für Bodenkultur (Dep. f. Wald und Bodenkunde)
- Österreichischer Biomasseverband (Landesgruppe Steiermark)
- Regionalenergie Steiermark
- Scheff GmbH

Projektidea

- Creating a trademark (label) for biomass products and specific services (www.biomassehof-stmk.at)
- Regional „Ones stop shop“ concept
- Optimize the logistik chain and gurantee the supply of biomass (products) for customers (private, Industrie etc.).
- Developement of new products (pellets or brickets of grass, straw...)

Working packages

1. Estimation of the actual and the expected of usage of biomass
2. Optimize the allocation of BLTZs
3. Market analysis for new products an new service ideas
4. MCA – mulitcritirial analysis of successfull biomass logistik chains
5. Creating an internal storage- and working process concept for BLTCs
6. LCA – life cycle analysis for biomass products

Expected Results

- Legal and economic framework for the establishing and running of BLTs
- Logistic concept and the expected advantages of the optimization
- Quality management criterias and the requested customer and selling structures
- Economic calculations of each product and service provided
- Businessplan for BLTCs