

Wood Energy & Cleantech

Case studies on district heating

THE FIRST LOOK

Task Description

Transferable case studies on district heating

- **Studies on capacity and demand on biofuel and cleantech**
- **System analysis of climate, environmental and economical aspects of the supply chain**
- **Mutual support to develop technology**
- **Case studies**
- **Cross border knowledge building**

Task Description (2)

WP5: Technology and Production

WP addresses the development of the woodfuels value chain with emphases on technical feasibility studies and market demand analyses.

One prominent tangible result of the action should be the implementation of technical case studies.

Common methodology consisting of the model feasibility calculations, implementation and cooperation planning, technical documentation, etc. to be developed in this WP.

The Status

4 case studies

- **Kisa, Sweden**
- **Elva, Estonia**
- **Aluksne, Latvia**
- **Beverina, Latvia**

The Status (2)

4 case studies and 4 (5) concepts

- **Kisa – MODEST**
- **Elva**
 - Carbon footprint
 - Cost-benefit analyses
 - Case study
- **Aluksne – Feasibility report**
- **Beverina – Summary report**

Recommendations

The partners have had somewhat different approach on defining pilot projects and the case studies.

It is recommended to discuss these definitions in order to harmonise the outputs.

Develop the case studies to smart performance indicators.

The Results (so far)

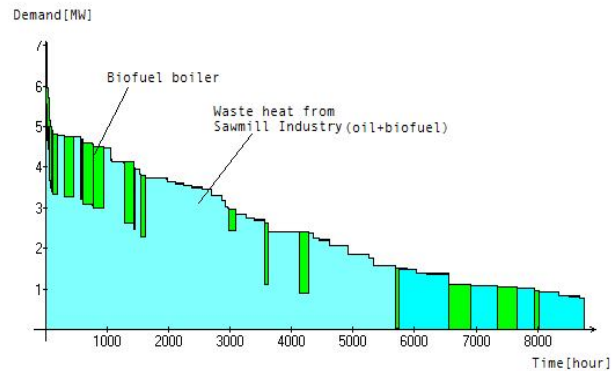
- **Case studies – done**
- **Lessons learned – described**
- **Single reports – to be harmonised**
- **Exchange – to be improved**
- **Common report – will be completed**
Handbook on methods and recommendations. Report on aspects and learnings from case studies.

Mutual learning

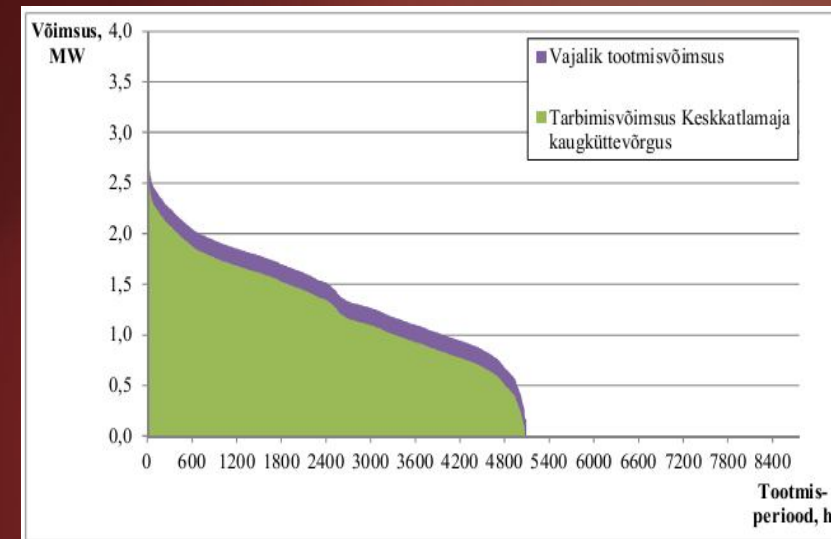


Tarbijate soojusenergia vajaduse katmiseks vaja minevat tootmisvõimsust baasaastal kirjeldab joonis 5.7. Nagu näha, on juba baasaastal vaja koostootmisjaamal arendada 3,96 MW suurust soojuslikku võimsust: sellest ka väiksema koostootmisjaama valik.

Case 3: Energy Cooperation with Saw mill and Paper mill



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Joonis 5.8. Prognositav Keskkatlamaja kaugküttevõrgu soojuskoormuse kestvusgraafik 2025. aastal

2025. aastaks on koormusgraafikult välja loetav maksimaalne vajalik koostootmisjaama tootmisvõimsus muutunud 2,84 MW-ni, millest tulenevalt suudab valitud jaam katta kogu soojusenergiavajaduse ning seega puudub vajadus tipukatelde kasutamiseks (tabel 5.4).

Tabel 5.4. IV stsenaariumi lähteandmed

Näitaja	Ühik	Baas	2025
Soojusenergia müük lõpptarbijaja juures	MW·h/a	13803	9390
sh elamufond 37%	MW·h/a	5097	2957
omavalitsuse hooned 29%	MW·h/a	3942	2287
tööstus ja teenindus 34%	MW·h/a	4764	4146
Kaod	MW·h/a	1559	1455
Kokku	MW·h/a	15362	10845
Kütteperiood	h	5496	5088
Tundide arv, mil koostootmisjaama	h	332	0

Smart performance indicators

You aim to:

Help householders optimise their electricity consumption

Help renewable energy systems development

Your act on:

Promotion of energy advice service targeted to 10.000 households

Promote dialogue between public services, developers & investors [decision tool]

And will deliver

3 GWh of electricity savings over project lifetime

Identify 5.000 MW opportunities in each country – commit to 5.000 MW capacity within 3 years after completion

Helping the municipal cleantech take off 😊

