

PREHEAT

Policy reinforcement for heat storage
technologies in Europe

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Project aim

- Increase attention and support for heat storage for solar thermal and other small scale renewable energy applications
- Long term: European promotion program, collective approach by industry and R&D
→ European “heat storage community”
- Target groups: policy makers, industry

Who's involved?

- Project partners



- Co-operation with



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Awareness

Importance
Potential
Needs

} Of heat storage technologies

should be transmitted to policy and decision makers

Starting point

Importance

Thermal energy storage technologies:

- Improve the performance of RE and EE systems
- Deepen and widen the potential share of renewable energy

Improved performance

Solar Thermal

Passive solar

Heat pumps

Biomass systems

District heating

(Micro) Cogeneration

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Increased renewable share

Improved Thermal Energy Storage (TES) technologies:

Lead to enhanced system performance in existing applications and markets

Create new applications and open up new markets

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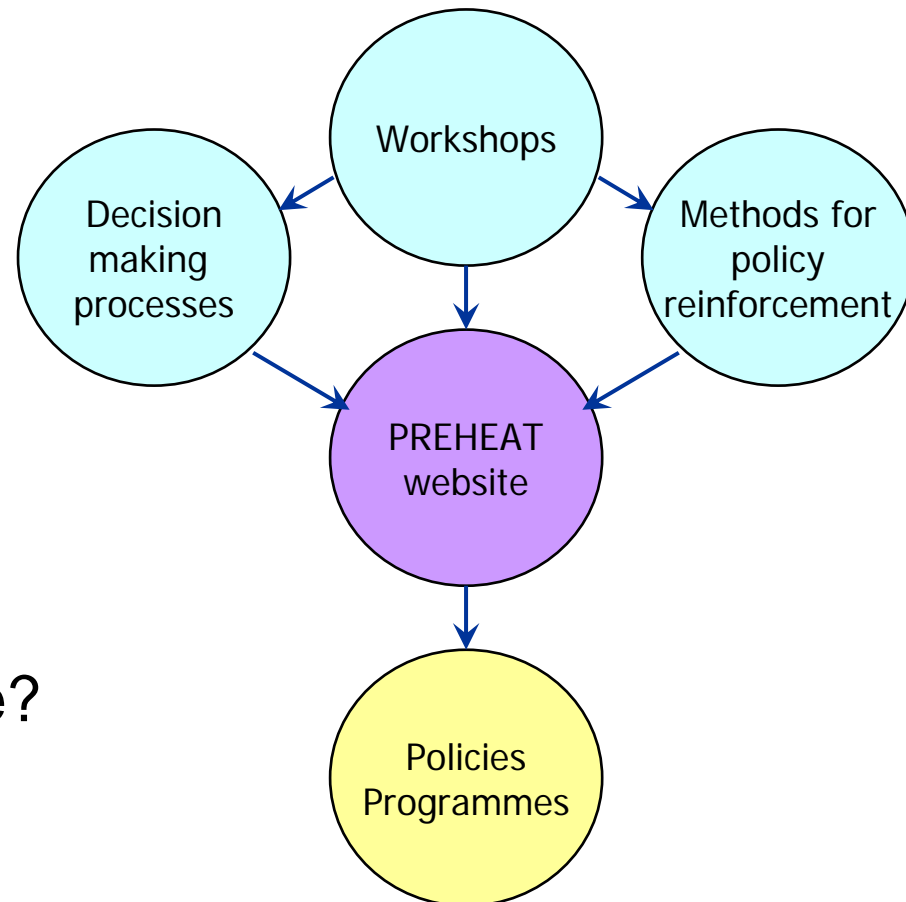
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Project approach

- What policies exist?
- How have comparable technologies been supported in the past?
- How can we improve support for heat storage?
- How can we improve visibility of heat storage?

→ www.preheat.org



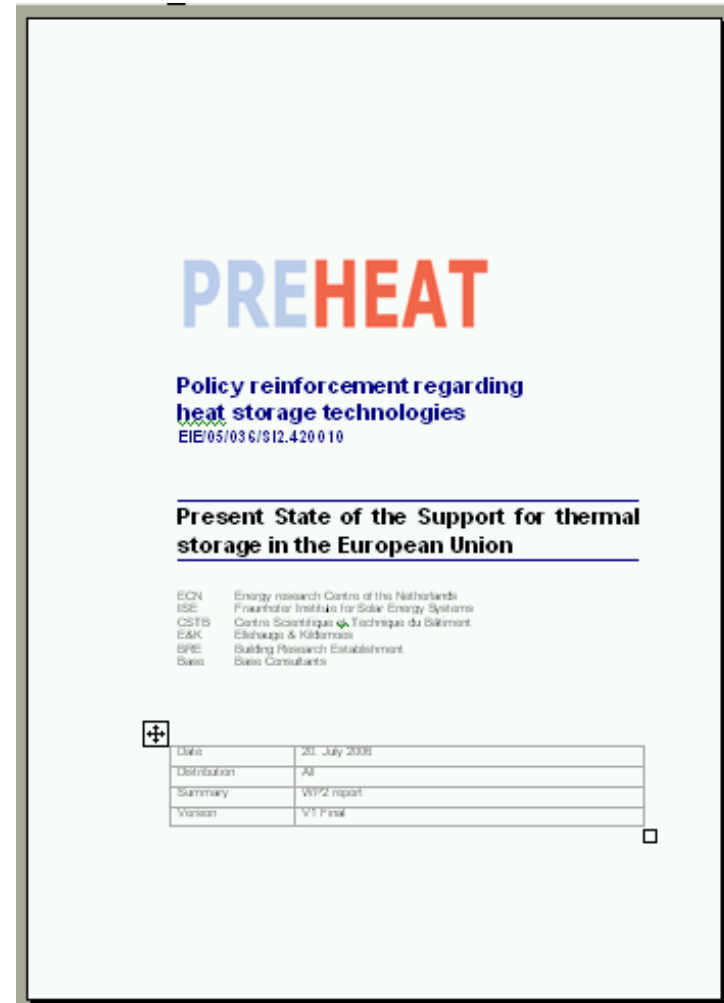
Decision making processes (WP2)

Description of

- actual rules and regulations for heat storage
- decision making structures, processes

Interviews with experts, stakeholders

Work package report finalised.



EU and national support for TES

- Only Switzerland has a specific program for storage technologies
- Most of the directives or regulations are not focussing directly on storages but include rules that are relevant for storages.

In conclusion:

- EU and its countries all have policies to promote energy efficiency and renewable energy
- Thermal storages can in principle benefit from the strategies but are often not mentioned

Policy Reinforcement (WP3)

Understanding the decision-making in the EU.

- “Co-decision” process of law making:
EC drafts the legislation proposals; EP & Council take the decision.
- Lobbying in the EU

Getting feedback from other [enabling] technologies
(questionnaires)

- Building Envelope Insulation (FR),
- Heat Networks (UK),
- Batteries for Electric cars (CH),
- Energy Labelling (DK) and
- Compact Flash Cards (D).

Policy Reinforcement

Set up activities to

- Inform policy makers of the technology:
Using Technology Platforms, European Associations, Consultations' responses from industry, Conferences & Press, promotion at the demonstration stage
- Convince policy makers:
Show large scale effect of (improved) TES for some example systems (technology cards)
- Include TES in policies & regulations:
A good labeling system for heat stores?
Dedicated regulator workshops, effective lobbying.

TES into policies and regulations

EU Policies

Energy efficiency action plan, future extensions of EPBD

Sustainable Energy Europe Campaign

Energy labelling of hot water storage devices; extension to other types

Solar Keymark certificates to include different types of storages

EU Regulations

Directive for RES H/C

Implementation of the EPBD at a national level

Implementation of the Energy end-use efficiency and Energy systems

Directive at a national level

EU Programs

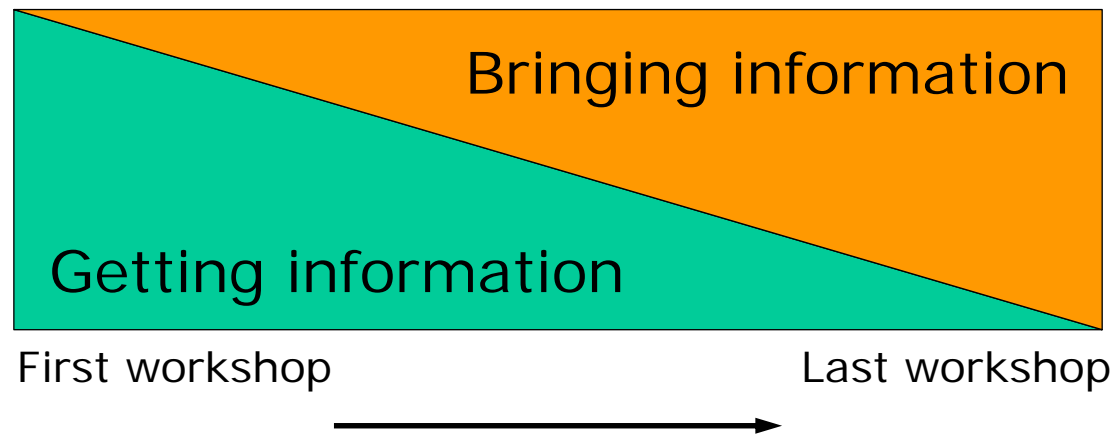
KP7 Cooperation program; **‘Renewables for heating and cooling’** and **‘Smart energy networks’**

Thermal energy storage research in ERA (European Research Area)

Future IEE program

Workshops

Policy makers, decision makers and other stakeholders



Seven workshops (Lyon july 06, Freiburg nov 06,
UK, NL, DK, CH and EU in 2007)

Two international events: at Intersolar 2007, 2008 t.b.d.

Dissemination

Website:

- Examples of heat storage technologies, applications and products

- Workshop programmes and results

- Overview of programmes and action plans

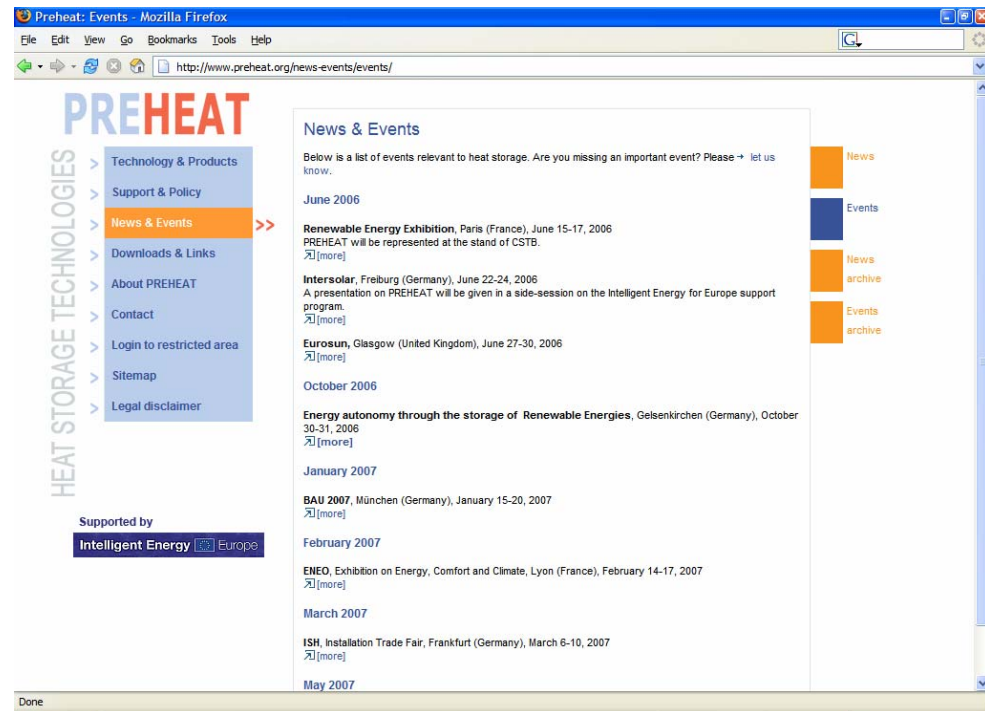
- Links to sites with more information

Other means:

- Messages through presentations, leaflets, articles, press,...

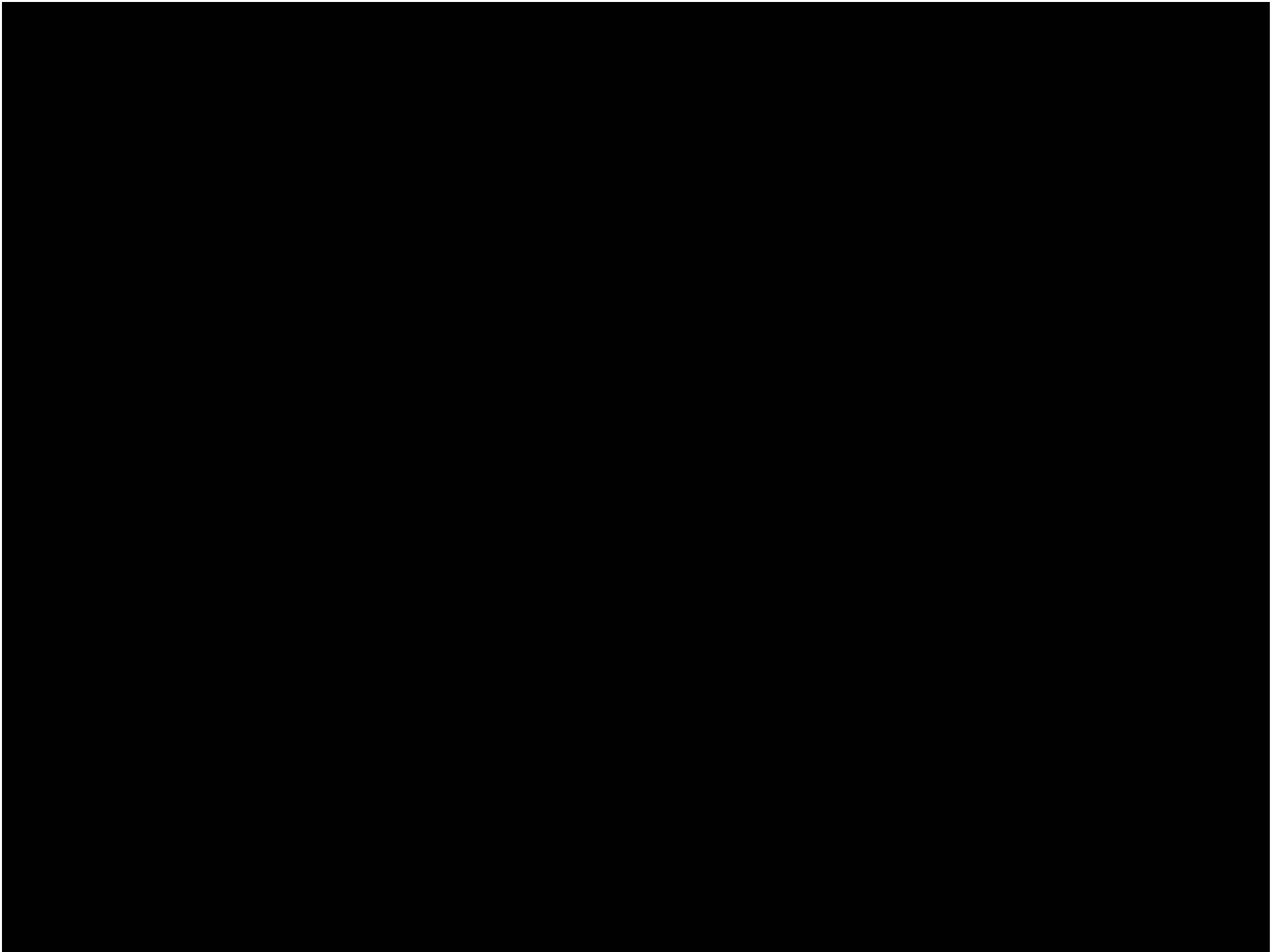
More information

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Visibility


Heat storage is an enabling technology:

It offers the possibilities for another technology to function better (or at all)

But it is not visible

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Policy reinforcement

- Understanding the decision-making in the EU.
- “Co-decision” process of law making:
EC drafts the legislation proposals; EP & Council take the decision.
- Lobbying in the EU:
The ‘demand and supply’ of ‘access goods’ concept (by Bouwen).

The EC gives access to:

- Individual Firms
(expert knowledge)
- European Organizations
(European interests)

The EP gives access to:

- National Organizations
(National interests)
- European Organizations
(European interests)

The Council gives access to:

- I.F.: National Champions
(National interests)
- National Organizations
(National interests)