

IEA SHC Task 45 – Subtask B: Seasonal Storage

The way to subtask B:

1. Task Definition Phase:
 - strong interest for technology transfer
 - more research should be integrated into the subtask
 - industry should be gained as subtask partners
2. Start of Task 45 on January 2011
3. Start of project for leading subtask B: 1.6.2011

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Objectives (acc. task annex, 10.01.2011, Jan-Erik Nielsen):

- Storages > 1000 m³ water equivalent for district solar heating and cooling systems
- Improve the economy of seasonal storage technologies
- Increase knowledge on durability, reliability and performance of storages
- Demonstrate cost effective, reliable and efficient seasonal storage of thermal energy

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Deliverables (acc. work plan, rev. 1, 04.03.2011, Jan-Erik Nielsen):

B1: state of the art report with best practise examples

B2: Identification of necessary R+D, if possible follow up of R+D projects

B3: procedures for checking the performance of the storage and definition of characteristic parameters for comparison of storages

B4: design guidelines for seasonal storages and review of design/ simulation tools. Internet-database in cooperation of IEA ECES?

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Members of Subtask B (20.10.2011):

- Dirk Mangold, Solites, Germany – subtask leader
- Dan Bauer and Roman Marx, ITW, Uni Stuttgart, Germany (waiting on project/ money)
- Prof. Dr. Ulrike Jordan, TM, Uni Kassel, Germany (no project)
- Manfred Reuss, ZAE Bayern, Germany
- Dr. Thorsten Urbaneck, TT, TU Chemnitz, Germany (no project)
- Bruce Sibbitt, Natural Resources Canada

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Work plan for B1: state of the art report with best practise examples:

- Due to delayed subtask start (1.6.2011) draft in 1. quarter 2012, report to the next task meeting in Denmark in May 2012
- Schematic for project evaluation and presentation in 1. draft from Solites this year
- Review of 1. draft by national experts and final version in Jan. 2012
- Filling with data by national experts in Febr. 2012
- First draft of state of the art report from Solites until 31.3.2012
- Review and finalizing until May 2012
- Money for printing?

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Work plan for B2: Identification of necessary R+D:

Thank you, Bruce!

if possible follow up of R+D projects:

No projects yet.

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Work plan for B3: procedures for checking the performance of the storage and definition of characteristic parameters for comparison of storages

- Quite a lot of work.
- No workplan until now because lack of subtask members that are financed to do the work.
- Suggestion: focusing on the definition of characteristic parameters in 2. quarter of 2012 with the experts that are available.

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Work plan for B4: design guidelines for seasonal storages and review of design/ simulation tools. Internet-database in cooperation of IEA ECES?

- Quite a lot of work.
- No workplan until now because lack of subtask members that are financed to do the work.
- No suggestion before previous point is solved.

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Thank you Manfred!