



## 2<sup>nd</sup> IEA-SHC Task 45 meeting 24 - 25 October 2011

### 2<sup>nd</sup> IEA-SHC Task 45 meeting - Banff

#### Large Systems: Large Solar Heating/Cooling Systems, Seasonal Storage, Heat Pumps

**Time:**

- Monday 24<sup>th</sup> October 09:00 - 17:00
- Tuesday 25<sup>th</sup> October 09:00 - 15:00

**Venue:**

**Fairmont Banff Springs Hotel**

**405 Spray Avenue**

**Banff, Alberta, Canada**

**More information on accommodation etc.:**

**<https://www.iea-shc.org/task45/events/meeting02/index.html>**

**Please register at:**

**<https://www.iea-shc.org/calendar/registration.aspx?EventID=13>**



## 2<sup>nd</sup> IEA-SHC Task 45 meeting 24 - 25 October 2011

### 3<sup>rd</sup> draft agenda

Version 2011-09-30

Day 1 - Mon 24 October , 09:00 - 17:00	
09:00 - 09:15	<b>Arrival</b> , registration and a cup of coffee
09:15 - 09:30	<b>Welcome</b> and roll call of participants - approval of agenda
09:30 - 09:45	<b>Introduction</b> by Operating Agent / JEN
	<p><b>“Country reports”</b></p> <p>Status concerning “Large Solar Systems” in the participating countries, focus on:</p> <ul style="list-style-type: none"> <li>• Market development</li> <li>• New interesting concepts</li> </ul> <p>Austria</p> <ul style="list-style-type: none"> <li>• Sabine Putz, S.O.L.I.D. is expected to be done from Johann Breidler, AEE-INTEC</li> </ul> <p>Canada</p> <ul style="list-style-type: none"> <li>• Doug McClenahan, Natural Resources Canada</li> </ul> <p>09:45 - 12:00 Denmark</p> <ul style="list-style-type: none"> <li>• Jan Erik Nielsen, PlanEnergi</li> </ul> <p>Germany</p> <ul style="list-style-type: none"> <li>• Dirk Mangold?, SOLITES</li> <li>• ...</li> </ul> <p>Spain</p> <ul style="list-style-type: none"> <li>• Detta Schaefer, IREC</li> </ul> <p>Sweden</p> <ul style="list-style-type: none"> <li>• Bengt Perers, DTU/SERC</li> </ul> <p>USA</p> <ul style="list-style-type: none"> <li>• Mark Thornbloom, Kelelo Engineering</li> </ul>
12:00 - 13:00	Lunch



## 2<sup>nd</sup> IEA-SHC Task 45 meeting 24 - 25 October 2011

Day 1 cont. - Mon 24 October , 09:00 - 17:00	
Day 1 cont. - Mon 24 October , 09:00 - 17:00	
13:00 - 17:00	<p><b>Subtask A / DTU</b></p> <p>Overview of status of work - Bengt Perers</p> <p>Specific status and discussion of deliverables:</p> <ul style="list-style-type: none"> <li>• Deliverable A-D1: Models for correction of collector efficiency parameters depending on collector type, flow rate, tilt and fluid type. DTU, IREC, UNIFI, NRC/NSTF <ul style="list-style-type: none"> <li>A-D1-1: Collector type. DTU, IREC, UNIFI, NRC/NSTF</li> <li>A-D1-2: Flow rate. DTU, IREC, UNIFI, NRC/NSTF</li> <li>A-D1-3: Collector tilt. DTU</li> <li>A-D1-4: solar collector fluid. DTU, IREC, UNIFI, NRC/NSTF <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> </ul> </li> <li>• Deliverable A-D2: If possible: Proposal for an informal annex to be included in EN 12975/ISO 9806-1 describing how to make the above mentioned corrections. PlanEnergi, DTU, IREC <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable A-D3: Proposal for requirements and test methods for collector loop pipes (safety, durability, heat loss, thermal expansion) – pre-normative work – to be proposed to the relevant ISO/CEN TC's. LOGSTOR, AGFW, SOLID <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable A-D4: Guidelines for requirements for collector loop installation, hydraulic scheme including precautions for safety and expansion including check list for checking installation accordingly. AEE-INTEC, IREC, AiquaSol, Ritter, SOLID, LOGSTOR, Sweden, AGFW <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable A-D5: Detailed simulation models for solar collector fields (thermal performance). AiquaSol, IREC <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> </ul> </li> </ul>



## 2<sup>nd</sup> IEA-SHC Task 45 meeting 24 - 25 October 2011

	<ul style="list-style-type: none"> <li>○ Who do what</li> <li>● Deliverable A-D6: Control and operation strategies for solar collector fields. ?, PlanEnergi, Marstal, Brædstrup, SOLID, IREC <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>● Deliverable A-D7: Procedure for guaranteeing performance of collector field installation – including how to check the guarantee – and including validation on existing fields. PlanEnergi, all <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>● Deliverable A-D8: Procedure for guaranteeing performance of solar loop heat exchanger – including how to check the guarantee – and including validation on existing fields. PlanEnergi, all <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>● Deliverable A-D9: Input to Task web site. DTU, all <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>● Deliverable A-D10: Input to “Design Handbook”. DTU, all <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>● Deliverable A-D11: Subtask A Summary Report. DTU, all <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>● Rolf Meissner, Ritter XL Solar GmbH: DHN installation in Weis, Austria</li> <li>● Overall time schedule</li> <li>● Corrections to work plan ?</li> </ul>
17:00 - 18:00	<b>Subtask B / SOLITES</b> <ul style="list-style-type: none"> <li>● Subtask B work plan - Dirk Mangold</li> </ul>
18:00	End of meeting day one
19:00	Dinner



## 2<sup>nd</sup> IEA-SHC Task 45 meeting 24 - 25 October 2011

Day 2 - Tuesday 25 October, 09:00 - 15:00	
09:00 - 10:15	<p><b>Subtask B / SOLITES (cont. from day 1)</b> Overview of status of work - Dirk Mangold</p> <ul style="list-style-type: none"> <li>• Deliverable “State of the report - evaluation of existing projects” <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable ... <ul style="list-style-type: none"> <li>○ ...</li> </ul> </li> <li>• Overall time schedule</li> <li>• Corrections to work plan</li> </ul>
10:30 - 13:15	<p><b>Subtask C / S.O.L.I.D.</b></p> <ul style="list-style-type: none"> <li>• Overview of status of work - Sabine Putz</li> <li>• Specific status and discussion of deliverables:</li> <li>• Deliverable “<b>system categorisation</b>”: SOLID/Sabine Putz <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable “<b>database of installation</b>”: Chalmers/ Olof Dalenbäck <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable “<b>guidlelines for planning, installation....</b>”: SOLID/Sabine Putz <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable “<b>guidelines and tools for feasibility/sens. analysis</b>”: Aiguasol/Oriol Gavalda <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Deliverable “<b>performance procedures</b>”: PlanEnergi/Jan Erik Nielsen <ul style="list-style-type: none"> <li>○ Status</li> <li>○ Discussion</li> <li>○ Who do what</li> </ul> </li> <li>• Overall time schedule – Sabine Putz</li> <li>• Corrections to work plan ?</li> </ul>
13:15 - 14:15	Lunch



## 2<sup>nd</sup> IEA-SHC Task 45 meeting 24 - 25 October 2011

14:15 - 14:25	<p><b>SHC 2012 conference</b>, July 9-11 in San Francisco, US in conjunction with InterSolar North America.</p> <p>Papers</p> <p>Promotion (national e-mail distribution to PSE &lt;ah@pse.de&gt; so that they can inform the interested people about the details of the conference.</p> <p>Ideas and suggestions for the conference structure etc. please inform Andreas Haeberle &lt;ah@pse.de&gt; from PSE and Werner Weiss</p> <p><b>*The important deadlines:*</b>          Call for papers, October 1, 2011          Deadline for Abstracts: January 31, 2012 Early bird registration: June 15, 2012</p>
14:25 - 14:45	Misc.
14:45 - 15:00	<p>Next meetings</p> <ul style="list-style-type: none"> <li>• 2012             <ul style="list-style-type: none"> <li>○ Spring: Denmark, 21-22 May</li> <li>○ Autumn: Austria</li> </ul> </li> <li>• 2013             <ul style="list-style-type: none"> <li>○ Spring:</li> <li>○ Autumn:</li> </ul> </li> </ul>
15:00	End of meeting