

## Minutes

### IEA SHC Task 73 PVT Heating Systems

**Date/Time/Location:** 14.04.2023/ 09:00-17:45 / Franziskaner Kloster, Graz

**Participants:** Industry, PVT, WP, policy, institutes  
 20 participants on-site, 28 participants online

TOP	Schedule	Topic	Speaker
1	09:00	<b>Welcome</b>	
2	09:15	<p>Opening: Housekeeping</p> <p>Mission</p> <p>Leadership Team and Round call</p> <p>Meeting rhythm</p> <p>Milestones – Workplan – Deliverables</p> <p>Recent information and highlights:            Listing achievements in the subtasks focus</p> <p>Contacts:            Who should be added to the distribution list?</p> <p>Picture material: Who has pictures including rights            declaration towards the task?</p> <p>Sharing news about:            Media presence, Videos, podcasts, articles            Gather it on the task homepage</p>	AEE ISE
3	09:30	<p>Subtask D <b>PVT Modeling and Monitoring</b></p> <p>Registration of ongoing projects willing to contribute and            report into the subtask</p> <p><b>Presentation of cases:</b></p> <ol style="list-style-type: none"> <li>1. <b>Jakob Jamot, OPTIMAL ENERGY PLAN</b></li> <li>2. <b>Edwige Porcheyre &amp; Phillipe Papillon,            ENERPLAN</b></li> <li>3. <b>Laetitia Brottier, DualFIT</b></li> </ol> <p>Discussing the current deliverable D1 Educational material –            feedback? Who is contributing?            What can be prepared until the next meeting?</p> <p>Our deliverables:</p>	<p>María Herrando            ITA</p> <p>Raquel Simón            Endef</p>

		<p>D1 Educational material M16</p> <p>D2 Workshops M10, M21, M46</p> <p>D3 Monitoring guideline and definition of KPIs associated M29</p> <p>D4 Basic calculation method for "CO<sub>2</sub> Savings" M29</p> <p>D5: Planning tool M24, M36, M46</p> <p>Intention:</p> <ol style="list-style-type: none"> <li>4. Apply planning tools on standard cases of A and B</li> <li>5. Provide Field measurement data in form of the KPIs of Subtask C</li> <li>6. Provide method for „CO<sub>2</sub> Savings“</li> <li>7. Map and Guide through the models in use (e.g. Scenocalc, polysun, tsol, trnsys, ...)</li> </ol>													
	11:00-11:30	Coffee break													
4	11:30	<p>Subtask C <b>PVT Awareness and Policy</b></p> <p>Registration of ongoing projects willing to contribute and report into the subtask</p> <p><b>Presentation of cases</b></p> <p><b>1. Ivan Acosta; PVT Nexus</b></p> <p>Discussing the deliverables and the work plan; who is going into the lead? Who is contributing? What can be prepared until the next meeting?</p> <p>Our deliverables:</p> <table style="width: 100%; border: none;"> <tr> <td>C1 Infographics</td> <td style="text-align: right;">from M 10</td> </tr> <tr> <td>C2 ChatBot</td> <td style="text-align: right;">M 29 &amp; M46</td> </tr> <tr> <td>C3 Research Radar</td> <td style="text-align: right;">M 22</td> </tr> <tr> <td>C4 System intercomparison data</td> <td style="text-align: right;">M 41</td> </tr> <tr> <td>C5 Non Technical KPI</td> <td style="text-align: right;">M 21</td> </tr> <tr> <td>C6 Subtask Report</td> <td style="text-align: right;">M 48</td> </tr> </table> <p>Intention:</p> <ul style="list-style-type: none"> <li>➤ Provide KPIs for categories of PVT; like LCoH and LCoE, SPF, COP, GEY, GTY</li> <li>➤ Summarize and present competitive advantages of PVT categories for the end consumer.</li> <li>➤ Provide easy calculations for policy makers on CO<sub>2</sub> savings, renewable share, costs, tbd.</li> <li>➤ Monitor the market development and provide results including start-up scouting</li> </ul>	C1 Infographics	from M 10	C2 ChatBot	M 29 & M46	C3 Research Radar	M 22	C4 System intercomparison data	M 41	C5 Non Technical KPI	M 21	C6 Subtask Report	M 48	<p>Valérie Séjourné SHE</p> <p>Frank Bruce Naked Energy</p> <p>Doug Smith coolsheet</p>
C1 Infographics	from M 10														
C2 ChatBot	M 29 & M46														
C3 Research Radar	M 22														
C4 System intercomparison data	M 41														
C5 Non Technical KPI	M 21														
C6 Subtask Report	M 48														
	13:00–14:30	Lunch													

5	14:30	<p>Subtask A <b>PVT Systems (liquid)</b></p> <p>Registration of ongoing projects willing to contribute and report into the subtask</p> <p><b>Presentation of cases</b></p> <ol style="list-style-type: none"> <li>1. <b>Raquel Simon, ENDEF</b></li> <li>2. <b>Joachim Koot, TripleSolar</b></li> <li>3. <b>Alejandro del Amo Sancho, Abora</b></li> </ol> <p>Discussing the deliverables and the work plan; who is going into the lead?          What can be prepared until the next meeting?</p> <p>Our deliverables:</p> <table border="0" style="width: 100%;"> <tr> <td>A1 Review of existing and new systems</td> <td style="text-align: right;">M 16</td> </tr> <tr> <td>A2 Reporting field test results</td> <td style="text-align: right;">M 16</td> </tr> <tr> <td>A3 KPI in GIS or altera</td> <td style="text-align: right;">M 46</td> </tr> <tr> <td>A4 Subtask Report</td> <td style="text-align: right;">M 48</td> </tr> </table> <p>Intention:</p> <ul style="list-style-type: none"> <li>➤ Sharing information on PVT applications, collector types and system configurations.</li> <li>➤ Analyze and document installations and derive the competitive advantages of those.</li> <li>➤ Gather a catalogue of questions and answers market participants experienced.</li> <li>➤ Share methods how to provide buying decision relevant information.</li> </ul>	A1 Review of existing and new systems	M 16	A2 Reporting field test results	M 16	A3 KPI in GIS or altera	M 46	A4 Subtask Report	M 48	<p>Christoph Rohringer AEE</p> <p>Laetitia Brottier DualSun</p>		
A1 Review of existing and new systems	M 16												
A2 Reporting field test results	M 16												
A3 KPI in GIS or altera	M 46												
A4 Subtask Report	M 48												
6	16:00	<p>Subtask B <b>PVT Systems (air)</b></p> <p>Registration of ongoing projects willing to contribute and report into the subtask</p> <p><b>Presentation of cases</b></p> <ol style="list-style-type: none"> <li>1. <b>Giorgos Aspetakis, Air-PVT Use Case for Cold Climates</b></li> <li>2. <b>Glen Ryan, Report on Air-PVT Classification &amp; Renewable Heat Taxonomy</b></li> <li>3. <b>Byron Felske, SolarWall PVT Installation Database</b></li> <li>4. <b>Steve Harrison, Update on Test Stand</b></li> </ol> <p>Discussing the deliverables and the work plan; who is going into the lead? Who is contributing?          What can be prepared until the next meeting?</p> <table border="0" style="width: 100%;"> <tr> <td>B1 Definition of performance indicators</td> <td style="text-align: right;">M 21</td> </tr> <tr> <td>B2 Testing on stands - procedure and results</td> <td style="text-align: right;">M 39</td> </tr> <tr> <td>B3 Standard test definition - pre normative</td> <td style="text-align: right;">M 46</td> </tr> <tr> <td>B4 Listing of Installation in GIS or altera</td> <td style="text-align: right;">M 46</td> </tr> <tr> <td>B5 Subtask Report</td> <td style="text-align: right;">M 48</td> </tr> </table> <p>Intention:</p> <ol style="list-style-type: none"> <li>5. Sharing information on PVT-SAH applications,</li> </ol>	B1 Definition of performance indicators	M 21	B2 Testing on stands - procedure and results	M 39	B3 Standard test definition - pre normative	M 46	B4 Listing of Installation in GIS or altera	M 46	B5 Subtask Report	M 48	<p>Isabelle Kosteniuk CanmetENERGY - Ottawa NRCan</p> <p>Qian Wang KTH</p>
B1 Definition of performance indicators	M 21												
B2 Testing on stands - procedure and results	M 39												
B3 Standard test definition - pre normative	M 46												
B4 Listing of Installation in GIS or altera	M 46												
B5 Subtask Report	M 48												

		collector types and system configurations 6. Analyze and document installations and derive the competitive advantages of those. 7. Gather a catalogue of questions and answers market participants experienced. 8. Share methods how to provide buying decision relevant information.	
7	17:30	De-briefing: Please send topics which you find interesting after the meeting.  Do not forget to mention the task in your publications and posters, and inform that you published!  Next Meeting: Freiburg, 14.09.2026 @University of Freiburg (same place as Eurosun2026)	
8	17:35	End	
		Welcome reception ISEC 2026	