



QAiST

Quality Assurance in Solar Heating
and Cooling Technology

Solar Keymark Network meeting

Berlin, Germany
20-21 March 2012



INTELLIGENT ENERGY
EUROPE



Update

- Project closing in May 2012
- Final project meeting in April 2012



Work being finalised

- WP2: Solar thermal collectors
- WP3: Solar thermal systems
- WP4: Quality assurance of testing
- WP5: New areas for quality assurance systems

Work being finalised

WP2:

Solar thermal collectors

WP2: Solar thermal collectors

- D 2.1 Performance of mid temperature collectors

Deliverable	Detail of upcoming steps
Summary report R2:1 on ETCs (focus on heatpipes)	Document being prepared for discussion and approval (inputs for partners and proofreading)
Summary report R2:2 on experiences from tests of concentrating and tracking collectors	Document being prepared for discussion and approval (inputs for partners and proofreading)
Report R2:4 on collector component characterization (receiver, reflector, tracker...)	Document being prepared for discussion and approval



WP2: Solar thermal collectors

- **D 2.2 Durability of collectors and materials**

Deliverable	Detail of upcoming steps
<p>Summary reports on :</p> <ul style="list-style-type: none">- rain penetration testing including experiences from application;- on exposure testing including performance testing;- on internal pressure test;- on pressure drop measurements;- on results of questionnaire and proposals for strengthened criteria;- on impact resistance test;- on absorber surface durability and characterization of glazings ;- on stagnation temperature;	<p>Document being prepared for discussion and approval (inputs for partners and proofreading)</p>

WP2: Solar thermal collectors

Deliverable	Detail of upcoming steps
D 2.3 Guide to EN 12975	Final inputs, proofreading, layout, design -Brochure manufacturers - Guide for Test Labs
D 2.4 Performance calculation tool	Finalize validation report Final checks of program, code and manual Final editing of program and summary report

Work being finalised

WP3: Solar thermal systems

WP3: Solar thermal systems

Deliverable	Detail of upcoming steps
D3.2 Guide of Procedures for Reliability Tests of factory made systems	Document ready for discussion and approval
D3.3 Improved extrapolation procedure	Presentation of results of Round-robin of application of extrapolation methodology and how to integrate in D3.3 which has already version D3.3A and D3.3B
D3.4 Proposal for energy labeling of Factory Made systems	Document ready for discussion and approval
D3.5 Proposal for energy labeling of Custom built systems	Document ready for discussion and approval
D3.6 Proposal – Determination of Hot Water Comfort of factory made systems	Document ready for discussion and approval
D3.7 Proposal – Determination of Hat Water Comfort of custom build systems	Document being prepared for discussion and approval

Work being finalised

WP4:

Quality assurance of testing

WP4: Quality assurance of testing

- D4.2 Report describing the results of the collector round robin test
- D4.3 Report describing the results of the system round robin test

Task	Detail of upcoming steps
Reports describing the results of the collector round robin test	Being finalised by IfEP. Discussion and approval at project meeting
Analysis of results	1 day workshop before final meeting

Work being finalised

WP5: New areas for
quality assurance systems

WP 5: New areas for quality assurance systems

- **D5.1 Technical report on combined solar & heat pump systems with system overview and quality requirements**

Task	Detail of upcoming steps
TR 5.1.1: System overview in participating countries with a review of categorisation possibilities (with proposal)	Presentation and approval of the document.
TR 5.1.2: Standard review and evaluation	Presentation and approval of the document. Discussion on possibilities of accounting for SHP-systems in future within current solar standards.
TR 5.1.3: Definition of performance figures	Presentation and approval of the document.
TR 5.1.5: Report on testing procedures (developed and under development)	Presentation of the draft document.

WP 5: New areas for quality assurance systems

- **D5.2: Technical report on the F&YC status and the framework for further technology development**

Task	Detail of upcoming steps
TR 5.2.1: Overview of available F&YC systems (marketed and under development)	Presentation of the document and approval.
TR 5.2.2: Framework and requirements for further development and implementation of F&YC in LSTS	Presentation of the status and discussion on schedule and work sharing until the end of project.



WP 5: New areas for quality assurance systems

- **D5.3 Technical report on the requirements for durability and performance testing of solar cooling systems**

Task	Detail of upcoming steps
TR 5.3.1: Collated and updated list of solar cooling installations in participating countries	Presentation of the document and decision on whether it should be passed on SHC Task 48.
TR 5.3.2: Report on durability issues, maintenance and cost	Presentation of the survey outcome.
TR 5.3.3: Review on testing procedures and quality standards	Presentation of the document and approval.
TR 5.3.4: Assessment of the possibility of incorporating solar cooling into EN 12977)	Presentation of the document and approval.

Work being finalised

WP6&7: Communication and Dissemination

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Deliverable	Detail of upcoming steps
T6.1 Distr. dissemination of project results	Info for Nat'l Authorities, focus on CE marking, possibly energy labelling
T6.2 Workshops for industry in connection with ESTIF meetings for discussion and feedback	4 workshops done – 1 more in May 2012
T6.5 SK implementation in CEE NMS	Workshops organised, national reports available, participation at SKN from new partners.
T6.6 Contribution to European Standardisation	Strong participation in TC312, different WGs, contribution for revisions
T6.7 International harmonization	Strong participation at ISO/TC 180 and good results
T6.8 Coordinate with new IEA proposed task	Involvement at IEA SH&C Task 43 and good results



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