



SOLAR HEATING & COOLING PROGRAMME
INTERNATIONAL ENERGY AGENCY

TASK 43 “Solar Rating and Certification – Global Collector Certification”

STATUS REPORT FOR THE 74th EXCO MEETING (Singapore)

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1 Task Description

1.1 Short Description - Task Objectives and Scope

The Task 43 extension aims at facilitating cross-border trading of solar thermal quality products by reducing testing and certification efforts and costs through the harmonization of requirements for testing and certification.

The scope is test procedures and standardization for solar thermal systems and components - and certification of solar thermal collectors.

1.2 Subtasks and their Lead countries

The task is divided into three subtasks:

- Subtask A: Harmonization of standards for solar thermal products (AU)
- Subtask B: Harmonization of certification schemes for solar collectors (US)
- Subtask C: Organizational framework for global collector certification (DE)

1.3 Main Deliverables

- The main deliverables will be:
- Support to ISO standardisation
- Rules/requirements for global collector certification
- Establishment of a "Global Solar Certification Network"

1.4 Duration

The Task 43 extension is running 2 years, from the July 2013 till June 2015.

2 Progress Since Last ExCo Meeting

2.1 General Work

2.1.1 Meetings

1st expert meeting held in Berlin, Germany 30 September, 36 participants from 11 countries

2.1.2 Status of Participation (according to national participation letters)

- China
- Denmark

- Germany
- Portugal
- US

2.1.3 Information Dissemination

Presentations

- IEA-SHC – Solar Association meeting in connection with the SHC2013 Conference 23 September 2013 in Freiburg, Germany (J.E.Nielsen)
- ISO TC 180 meeting 27 September 2013 in Freiburg, Germany (J.E.Nielsen)
- "Global Solar Certification Workshop" 30 September 2013, Berlin, Germany (J.E.Nielsen)

New on website

- Main page updated

Newsletter

- Article for IEA-SHC newsletter 17 October 2013

2.2 Subtask Work

See section 5.2 *Milestones/deliverables* for an overview of activities.

2.2.1 Subtask A Harmonization of standards

The general objectives of Subtask A is to give support to:

- Promotion of the new ISO/EN 9806 for collector testing
- ISO TC 180 work on harmonizing standards for solar thermal systems and components on a global scale.

Work done so far:

- Updating of work plan for subtask A according to outcome of first expert meeting 30 September 2013

2.2.2 Subtask B Harmonization of certification schemes

The objective of subtask B is to define the set of requirements national/regional certification schemes shall fulfil in order to be accepted under the global "umbrella" certification scheme for collectors.

Work done so far:

- Updating of work plan for subtask B according to outcome of first expert meeting 30 September 2013.
- Initial "discussion document" on rules/requirements made.
- Discussion on the above document at workshop and first expert meeting 30 September 2013.

2.2.3 Subtask C Organizational framework for global collector certification

The objective of subtask C is to set up rules for the organizational framework for the global certification of solar collectors. This includes defining the structure of framework/network, deciding who can/shall participate in the framework/network, defining voting rights, setting meeting frequencies, setting fees – and establishing the Global Solar Certification Network.

Work done so far:

- Updating of work plan for subtask C according to outcome of first expert meeting 30 September 2013.
- First draft of “Internal Working Rules” made.
- Discussion on the above document at workshop and first expert meeting 30 September 2013.
- Informal Global Solar Certification Network Established:
Chair: H. Drück, Deputy chair: L. Nelson, treasurer: E. Prado, secretary: J.E. Nielsen

2.3 Collaboration with other SHC Tasks and IEA Programmes and related

- Task presented at IEA-SHC – Solar Association meeting
- Task presented at ISO TC 180 meeting

3 Deliverables, Timelines and Milestones

3.1 Achieved Milestones, Not Achieved Milestones and Future Milestones See section 5.2 “Milestones/deliverables”.

3.2 Future Meetings

Next Task 43 experts meetings will be in:

- 12-13 March 2014: Gran Canaria (in connection with Solar Keymark Network meeting)
- 22-24 October 2014: Beijing (in connection with ISO TC180 meeting)

4 Issues for the Executive Committee

4.1 Issues only for ExCo members of participating countries

4.1.1 Missing Participation letters

4.2 Issues for the entire ExCo

4.2.1 ...

5 Appendixes

5.1 List of Experts

List of official nominated national experts according to national participation letters as per 10th October 2013 (7 participants from 4 countries):

Country	Expert	Institution	e-mail	Role
Australia				
Austria				
Canada				
China				National expert
China				National expert
Denmark	Jan Erik Nielsen	PlanEnergi	jen@solarkey.dk	OA
ECREEE				
Germany	Harald Drucek	ITW, Stuttgart Unerversity	drucek@itw.uni-stuttgart.de	Subtask C leader
Germany	Korbinian Kramer	Fraunhofer ISE	Korbinian.kramer@ise.fraunhofer.de	National expert
Portugal	Maria Joao Carvalho	LNEG	mjoao.carvalho@lneg.pt	National expert
RECREE				
Singapore				
US	Eileen Prado	SRCC	eprado@solar-rating.org	Subtask B leader
US	Jim Huggins	SRCC	jhuggins@solar-rating.org	National expert
US	Les Nelson	IAPMO	les.nelson@iapmo.org	National expert

5.2 Milestones/deliverables

Time Plan and Milestones - subtask A	2013			2014			2015		
A1: Finalizing the prEN ISO/DIS 9806 "Solar energy - Solar thermal collectors - Test methods" - and promotion of the final standard worldwide			R						
A2: Elaborating of ISO/AWI 22975 series on "Solar Energy - Collector components and materials"			D			D		R	
A4: Harmonization of the ISO 9459-4 with the EN 12977					D			R	
A5: Inputs to first draft of ISO Standards for test methods for reliability/durability and safety of solar heating systems						D		R	
A6: Revision of ISO/NP 9488 "Solar Energy - Vocabulary"					D			R	
A7: New areas for international standardization							D	R	
Milestones: D: Draft report (or draft standard); R Final report of work done									

Time Plan and Milestones - subtask B	2013			2014			2015		
B1. First draft set of requirements			D m						
B2. Make 2 nd draft set of requirements					D				
B3. Make final draft set of requirements					D m				
B4. Make and approve final version of requirements						R m			
Milestones: D: Draft reports(s); R: Final reports(s); m: meeting									

Time Plan and Milestones - subtask C	2013			2014			2015		
C1. First draft set of rules for the organizational framework			D m						
C2. Make 2 nd draft set of rules for the organizational framework					D				
C3. Make final draft set of rules for the organizational framework					m	D			
C4. Make and approve final version of rules for the organizational framework						R m			
C5. Operate the global collector certification for one year								m	R
C6. Promote the global collector								R	
Milestones: D: Draft reports(s); R: Final reports(s); m: meeting									

5.3 Meeting participants – meeting 1 (of extended period)

Task 43 Expert meeting, Monday 30/9 2013, Berlin

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