

EXECUTIVE SUMMARY OF MINUTES

21st Solar Keymark Network Meeting

2016-10-16+17 Crete, Greece

A new revision of the complaint procedure was approved, to be incorporated in section 2.2 in Scheme Rules. There will be an advisory complaint committee, the possibility to use a third party team and three clearly identified steps for the complainant to follow in case it is not satisfied with the answer it has initially received from the CB. The work on improving the 10% rule of the special test in section 6.3 of Scheme Rules was not done and a specific Working Group was created for this, together with a call for an SCF Project for this issue.

The Action plans working groups (Marketing, Legal Requirements, New Products and installers) presented the outcome of their work. In particular, the document [N0298R0 OverviewLegalReqs](#) offers a very interesting overview of all the legal and market requirements on solar thermal energy products.

As a result of the work of the Action plan working groups, there will be call topics for SCF Projects for:

- Promotion of the Keymark (Marketing plan for 2017)
- Broadening the scope of the Keymark (especially for “systems with solar contributions”)
- Broadening the scope of the Keymark with regard to quality issues for existing schemes (drinking water quality and life cycle assessment among others)
- Adding value to the certificates (by improving the use of database to all ErP, design and development tools)
- Elaboration of a strategy for the Solar Keymark

A new Keymark Certification scheme for heat pumps was presented together with a proposal to revise the logo of the Keymark. The Keymark Management Organization(KMO) will lead a WG with representation from different Keymark Certification Schemes to unify actions for promotion of the Keymark. The issue of the logo will be studied before presenting a proposal to CEN, the owner of the Keymark.

In order to reduce the CO₂ footprint of the SKN and to reduce travelling costs, there will be an effort to have only one physical SKN meeting and one as web meeting a year. There will also be an analysis as to whether this may be applied also for web inspections.

The budget for 2017 was approved with no change in fees or in expenses towards ESTIF, the Chairman or the Manager of SKN. There is an estimated decrease of 7% in the income for 2017, leading to a decrease of 12% in money allocated for the SCF Projects.

The call topics for SCF Projects were proposed, with the ones describe above and some other important ideas. The call will be launched no later than the 14th November¹ and the date for handing in proposals will be the 20th of December. The elections for Chairman of SCF will take place at the next Steering Committee meeting expected for February 2017. A WG was established to revise and improve the SCF working rules.

This meeting counted with the notable presence of the ESTIF President, Robin Welling, who presented ESTIF's views regarding the main challenges for the solar thermal market.

¹ At the meeting it was decided to announce the call at latest 10/11. This has shown not to be possible. The call will be launched around the 14/11 (so Monday instead of Friday)



Other technical issues were dealt with: OEM and OBL Certificates, exchange of insulation materials, updating and adequate data sheets, air collector WG and retesting every 10 years.

The next meeting will be a web meeting, to be held on the 20th December, in order to continue with unfinished items in this meeting and as a practice for possible web meetings in the future.

The next Physical SKN meeting will be held in Freiburg, Germany 7th – 8th March 2017.

Minutes

21st Solar Keymark Network Meeting

2016-10-16+17 Crete, Greece

Item 1: Opening of the meeting

Jaime Fernández, Chairman of the Solar Keymark Network (SKN), opened the meeting and welcomed the members, observers and guests. He thanked Jan Erik Nielsen, Manager of SKN for the excellent preparation of the meeting. Although she was not present, Vassiliki Drosdou of the Center of Renewable Energy Sources and Saving of Greece (CRES) was also thanked for hosting the meeting, together with the sponsors of the meeting: EBHE, the Greek Solar Thermal Industry Federation, NOIS/ELOT, Greek Standardisation Body and HALCOR Group C, copper product manufacturing and trading in Greece.

Some practical information regarding the decision making process and output of the agreements (decisions and resolutions) at SKN meetings was given to the participants.

All decisions and resolutions are written at the meeting and voted by the members with voting rights. In order to facilitate the process, the negatives votes and abstentions are asked for first. In the minutes that follow, in all cases in which there are 0 negative votes and 0 abstentions, the wording 'Unanimous decision' has been used as information on the voting.

Item 2: Introduction of participants

The participants introduced themselves, indicating their status as a member, observer or guest and also the type of organization they represented and country of origin. There were some members attending the meeting via web. The following guests were invited by the Chair: Robin Welling (President of ESTIF), Martin Fonsen (EHPA) and Laure Meljac (EHPA). All participants are listed in Annex A.

The number of participants are related in the table below:

Certifiers	Testing Laboratories	Industrial Representatives	Observers/Guest
11	13	4	3

The voting preconditions regarding the peer groups with voting rights (Certifiers, Testing Laboratories and Industrial Representatives) defined in section 4.2 of SKN_N102R.9 Solar Keymark Network Internal Regulations were met

Note from chair: The wording section 4.2 of the Keymark Internal Regulations for voting conditions should be revised since it leads to confusion. The requirement of 50% of representation of the obligatory members can be understood as being referred to each group, or being referred to the members in each group. In first interpretation, it was complied with because all obligatory members were present at the meeting. In the second interpretation it was complied with since there were 11 CBs out of 14 and there were 11 testing labs out of 18 labs that have granted Keymark Certificates. (However there are 28 labs that are accredited. Counting these in all there were 24 obligatory members out of 41 obligatory members, also complying with the 50% rule).



Item 3: Approval of the agenda

The agenda was approved with a small change. Item 25 "Presentation of new Keymark Scheme for Heat Pumps" was moved after Item 8" Report from WG for Action Plan AP2: Improve Marketing and Communication activities".

Item 4: Comments to the minutes of the 19th SKN meeting

The minutes of the last meeting were prepared by Jaime Fernández (Chairman of SKN), who received help with proof reading by Pedro Dias and Jan Erik Nielsen. They were sent to the SKN members and some comments were received from Stephan Fischer. A new version was prepared and sent back to the SKN. Having received no further comments or allegations, the minutes were approved and the word "Final" was added to the final document SKN_N0285R2_20MeetingMinutes.

Item 5: Review of Decision list and follow up of action list

Jan Erik Nielsen and Jaime Fernández presented the updated Decision list (SKN [N0100R18](#)) and Action list ([SKN_N0286.R3_ActionListFor21SKNmeeting2016-10.xlsx](#)). This second document is new and it shows all decisions from the previous meeting requiring some work. It helps to control the work that is due for the next SKN meeting. After revising the document it was shown that almost all of the due actions from last meeting had taken place. The only unfinished items were:

- Decision M20.D14 – Participants in new inter laboratory comparison for SCF7 Project D15. Andreas Bohren explained that some more time was needed and that the conclusion of the work will be ready for the 2018 March SKN Meeting
- Decision M20.D15 - Update of Solar Keymark brochure. Pedro Dias indicated that this item was studied by the Marketing and Communication Working Group and it was planned for 2017.

Item 6: Date and place of next meeting(s)

The schedule for the next two meetings is:

- **Second part of 21st meeting:** 2016-12-20. A web meeting to finish items 35-45 that were scheduled for this meeting and to act as a trial for SKN web meetings (Please see Item 20 Proposal to reduce SKN CO2 footprint and item 35 End of meeting)
- **22nd meeting:** 2017-03-07+08, starting at 13:00 in Freiburg (Germany) and hosted by ISE Fraunhofer Testing Institute (Korbinian Kramer)

Since in Item 20-Proposal to reduce SKN CO2 footprint, there is a decision to analyze the way to have one physical meeting a year (March) and one web meeting a year (October) , the dates of the following meetings are scheduled, but a final decision as to the place will be taken in March 2017:

- **23rd meeting:** 2017-10-17+18 : Nicosia, Cyprus and hosted by TÜV CYPRUS (TÜV NORD) Ltd (Giorgos Nikolaides) or a WEB meeting. (the decision will be taken at 22nd SKN meeting in Freiburg and will depend on the experience of web meeting of 2016-12-20)
- **24th meeting:** 2018-03-06+07 , starting at 13:00 in Madrid (Spain) and hosted by AENOR (Jaime Fernández)

Item 7: Update of complaint(s) and proposal for Resolution for a new and complete procedure for complaints, with its own section in the Specific Rules

Jaime Fernández started with an update of two complaints. The first one took place before the last SKN meeting and the facts had been presented at the meeting. There had been six complaints to a CB about four Keymark Certificates that it had granted. The CB had retested the products and a third party expert had been asked to audit the testing procedure. The Keymark Certificates had been updated with the results of these tests, that were complying with the 10% rule described in section 6.3 of the Keymark Scheme Rules.

The other complaint occurred between April and May of 2016. A license holder (LH2) complained to the Manager of the SKN. After having presented a complaint to a Certification Body (CB1) about its Keymark Certificate for a PVT collector. LH2 was not satisfied with the answer given by CB1. LH2 claimed that:

- The Keymark Certificate should make reference to the PV module being tested.
- The license holder of this Keymark Certificate (LH1) was creating confusion in the market by exchanging the PV modules of its PVT collector without clarifying which one belonged to the certified product.

The Head of the CB WG, together with the Manager and Chair of SKN asked CB 1 for more information. After many exchanges of emails and gathering of information, the recommendations made by the Head of CB were followed: CB1 adapted its Keymark Certificate by indicating the PV module that was tested and LH2 made a clear declaration in its commercial information regarding the relationship between its PVT collector and the only PV module for which it had a Keymark Certificate.

Katharina Meyer, Chair of the WG (also composed by Pedro Dias, Ulrich Fritzsche, Stephan Fishcer, Daniel Eggert, Christian Stadler, Alberto Garcia, Andreas Bohren, Klaus Mischensky, Harald Poscharnig, and Jaime Fernández) made a presentation (see Annex B) to explain the result of the work and proposal in the document [SKN_N0282R2_ResolutionProposalComplaints.docx](#).

Based on the experience of both complaints and as the result of 4 web meetings, this document offers an improved procedure for complaints. The complainant has a clear guide as to what steps to take in case it is not satisfied with the answer it receives. A new Advisory Committee for Complaints plus a third party team is introduced to improve the investigation in cases of complaints. The WG was not able however to do the necessary work on section 6.3 of the Solar Keymark Scheme Rules and here revise the requirements for the 10% rule of the Special Test.

There was a long debate and the document was revised with some necessary improvements. On the second day of the meeting, and after presenting the revised document, the following Resolutions were presented and approved:

Resolution M21.R4 - New Complaint procedure in 2.2 of Solar Keymark Scheme Rules with document SKN_282R3.



Section 2.2 of the Solar Keymark Scheme Rules is substituted with a new text that explains a revised complaint procedure. A process that offers a clearer guide to the complainant is introduced. An advisory complaint committee is introduced to aid the Head of CB WG for the appeal process and also a third party team is introduced.

Information on vote: 2 negative votes, 0 abstentions

Resolution M21.R5 - Change Annex I by incorporating a flow chart for the complaint procedure

A flow chart explaining the procedure is added into Annex I, and therefore the annex is divided into Annex Ia (the actual version) and Annex Ib (the flow chart presented in document SKN_0282R3 ResolutionProposalComplaints). Annex Ia is turned into a word document.

Information on vote: Unanimous decision

Some members of the SKN showed concern regarding the need for a review by a lawyer. The formal approval of the document requires that it must first be sent first to the Keymark Management Organization (KMO). Katharina Meyer representing the KMO informed that the document would be sent to a layer for its revision as part of the approval process.

Note: The presentation took place following the order of the items, but the decision to approve the Resolutions was taken on the second day. Therefore they are both numbered with the chronological order that they were taken in relation to other Resolutions, but are placed in this item.

Although 4 WG meetings were held, the work was not completed since the 10% rule has not yet been revised. This is a rather technical issue that will require the input of testing laboratories mostly. Some concern was also shown about the lack of funding for any re-testing or new inspections and suggestions were made as to how this could be organized by some type of lending through the SCF Projects. Taking all this discussion into account, the following decision was taken:

Decision M21.D1 – Establishment of new WG to revise the 10% Rule of section 6.3 of Solar Keymark Scheme Rules and to study financial possibilities for dealing with complaints

As a follow up of the WG that presented a revised procedure for complaints, a WG is established to revise the 10% Rule of section 6.3 and propose a resolution for the next SKN Meeting and find a financial solution for dealing with complaints.

WG members are: Jan Erik Nielsen, Harald Drueck(Chair), Katharina Meyer, Jaime Fernández, Stephan Fischer, Harald Poscharnig, Christian Stadler, Sophie Bocquillon, Pedro Dias, technical expert from ESTIF and Korbinian Kramer.

Information on vote: Unanimous decision

Item 8: Report from WG for Action Plan AP2: Improve Marketing and Communication activities and update on Solar Keymark Brochure

Pedro Dias who acted as chair of this WG (composed by Oscar Mogro, Britt Bremer(Marketing team of BDR Thermea), Christian Stadler, Jaime Fernandez, Jan Erik Nielsen and Henry Rosik) presented the work and conclusions of documents SKN_304,305&306 R.O. See Annex C for the presentation.



The WG had analysed different actions for a marketing plan for 2017. A questionnaire had been prepared by Henry Rosik and it would shortly be sent to the SKN members for their opinion. The possibilities include actions to support the promotion work of SKN members (brochure), to improve the SKN website, to improve SKN internal & external communications (Newsletter) and to push for stronger Keymark notoriety. Another conclusion of the WG was the wish to involve the KMO in the promotion activities of the Keymark.

After a debate and exchange of opinions, it was clear of the importance to have a Marketing Plan for 2017. Although some of the actions would be included in the budget that is allocated to ESTIF, others could need some extra funding. Therefore the following decision was taken:

Decision M21.D2 – To develop a proposal for an SCF Project for a Marketing Plan for 2017 by Marketing and Communication WG

The WG for Marketing and Communication will continue its work and prepare a proposal for an SCF Project to develop a Marketing Plan for 2017. A survey will be sent to SKN members. WG members are Pedro Dias (Chair), Oscar Mogro, Britt Bremer, Christian Stadler, Jaime Fernandez, Jan Erik Nielsen and Henry Rosik

Information on vote: Unanimous decision

Item9 Presentation of new Keymark Scheme for Heat Pumps

This was originally item 25 in the agenda, but was moved forward because of travelling arrangements made it impossible to be presented on the second day of the meeting.

Laure Meljac made the presentation (see Annex D) that explained the recent creation of a new Keymark certification scheme for heat pumps. She also presented the opinion from our heat pump colleagues that there is a need for modernizing the Keymark logo and there was a proposal to change it with the collaboration of all the interested parties.

Following this discussion, Soeren Scholz, representing the Keymark Management Organization (KMO) explained how a change in logo would be a final decision of CEN, as owner of the Mark. He also explained the wish from KMO to unite the promotion and information given in the website for the Keymark in general. Some ideas were exchanged regarding the wish of members of the SKN for the KMO to be more active with respect to promotion. Some members expressed the wish to use only the database of the Solar Keymark web page and not to have a duplicate in another Keymark web page. At this moment there is a web page that informs of the Keymark in a general way, http://www.dincertco.de/en/dincertco/produkte_leistungen/management_keymark/management-keymark.html. Another idea was that there could be a more simple and unique domain like keymark.org instead. All of this exchange of ideas led to taking the following decision:

Decision M21.D3 – The SKN supports that the KMO (held by DIN CERTCO) will lead a WG with stakeholders from different Keymark Groups to study the promotion of the Keymark in general, especially including the possibility of a change in the Keymark logo

The KMO (held by DIN CERTCO) will lead a WG with stakeholders from different Keymark groups to study the possibility to improve promotion of the Keymark in general. In particular, one aspect that will be studied is the possibility to change the logo and present the proposal to CEN. The outcome



of this WG will be presented in 17th February to CEN. The WG will be developed within the month of November. Members from the SKN to join this WG are Jaime Fernández, Pedro Dias, Jan Erik Nielsen.

Information on vote: Unanimous decision

Item 10 Report from WG for Action Plan AP3: Analyse the development of a certification scheme for installers and installations

Katharina Meyer, Chair of this WG (also composed by: Gerard Van Amerongen, Peter Kovacs, Jan Erik Nielsen, Jaime Fernandez, Vinod Sharma, Malte Kottwitz, Luis González, Alberto Garcia, Pedro Dias, Oscar Mogro and Henry Rosik) presented their work and conclusions (see Annex E). The general idea is to strengthen the Solar KEYMARK by extending the certification system with additional certifications of installers and installations. The installer certification can be designed as a certification of individuals or businesses. The installation certification can include certification of planning tools and finalized installations.

The WG “Installers and Installations” (AP3) has so far identified the following situation:

- Pros: Different schemes in EU, Necessity of harmonization within EU, EU member states without schemes, mutual recognition between schemes
- Cons: No EN Standards describing the installation of solar thermal systems, Different regulations in different member states, different market needs
- Open questions: new RES directive, Build-up initiative, Horizon 2020 projects
- Opportunity: Text of RES directive will be revised.

There was a proposal to continue the work in order to analyse the current situation in the EU member states and the definition of possibilities for new European certification schemes.

Pedro Dias expressed the concern of the Board of ESTIF regarding the large number of Working Groups that had been recently created, and the fact that resources are limited. Since the WG itself had concluded that the development of this new certification system was not a high priority issue, only the interested members could continue, and therefore following decision was taken:

Decision M21.D4 – WG for Action Plan AP3: Installers and installations continues by Katharina Meyer and Jaime Fernandez the work until the 22nd SKN Meeting

The WG for Action Plan AP3: “Analyse the development of a certification scheme for installers and installations” that was created in 20th SKN meeting (Berlin) continues its work and will present its final conclusions at 22nd SKN meeting. WG members are only going to be Jaime Fernandez and Katharina Meyer.

Information on vote: Unanimous vote

Item 11 Report from WG for Action Plan AP4: Effort to boost the Certification of new Products in Scheme Rules. Members Gerard Van Amerongen, Katharina Meyer (Chair)

Katharina Meyer, as Chair of this WG (also composed of Jaime Fernandez, Ulrich Fritzsche, Stephan Fischer, Korbinian Kramer) presented their work and conclusions. (see Annex F)



The current market situation has been studied and the following possibilities to add new products to the Solar KEYMARK Scheme are identified:

- Regarding the EN 12977 series that are in the scope of the Keymark Rules but barely any certified products, no actions were proposed.
- Regarding specific products that are not in the scope of EN 12975-1, but are in the scope of EN ISO 9806 like air collectors and PVT collectors, the WG considers the need to dedicate a special effort to continue improving the Scheme Rules to make certification easier and more harmonized.

The WG made 3 proposals.

The first proposal to reactive the PVT Working Group did not receive support from its Chair, Ullrich Fritzsche. Since there was a proposal in item 32 by Andreas Bohren related precisely to reduce any requirements on collectors that are not explicitly found on the applicable standards, the discussion was postponed until reaching this item.

Regarding the proposal for air collectors, the following was decision was proposed and taken:

Decision M21.D5 – Create a WG for air collectors

Create a working group including institutes that have tested air collectors and CBs that have granted Keymark certificates to air collectors. The objective is to share working methods and experience and analyse the need for improvements. The output will be pinpointing potential problems. Members are: Korbinian (Chair), Jaime Fernández, Patrick Ollas, Katharina Meyer.

Information on vote: Unanimous decision

The third proposal was to create a new WG in order to prepare an SCF Project with the objective to do a feasibility study on the possibility of certifying “systems with solar contribution”. Since this is also a proposal of Working Group AP6-Legal Req, it was presented in the next Item.

Item 12: Report and proposals for decisions from WG for Action Plan AP6: Prepare a thorough plan for all the new Legal Requirements and future changes in the Market. /

Gerard Van Amerongen, Chair of the WG (composed also of Ulrich Fritzsche, Pedro Dias, Jaime Fernandez, Oscar Mogro, Christian Stadler, and Korbinian Kramer) presented their work and conclusions. (see Annex G)

The document [N0298R0 OverviewLegalReqs](#) offers a very interesting overview of all of the legal and market requirements on solar thermal collectors and systems. The first part offers the following scheme:

- Legal requirements that apply directly to manufacturers and suppliers
 - EcoDesign and Energy Labelling
 - Construction Products Regulation
 - Pressure Equipment Directive
 - Low Voltage Directive
- Legal requirements that shape the market
 - EPBD Regulation
 - Requirements on drinking water quality
 - Requirements on the construction of the collector on the building



- RES Directive
- Quality, support schemes and other mechanisms
 - Access to national support schemes
 - Databases with product specifications
 - Design and evaluation tools
- Market trends
 - Major renovations
 - Scale: Solar components, solar systems or heating installations
 - Combination with other products
 - Transparent and easy to digest product specifications

The second part offers an evaluation of all of the previous information and concludes with three proposals.

After the presentation and the following debate and exchange of ideas, the following decision were proposed and taken:

Decision M21.D6 – To add an SCF call topic for broadening the scope of the Solar Keymark

The SKN will propose a call topic for an SCF project for “Broadening the scope of the Solar Keymark”.

The project should focus on two paths to attack the ‘pyramid’: using the components data and broadening the scope upwards in the ‘pyramid’. The goal of the project is to increase and ensure the value of the Solar Keymark now and in the near future. It should give clear directions to move to, how to come there, timetables, types of customers and expected commercial values. In particular, it should make a feasibility study on a new certification scheme for ‘systems with solar contribution’. (this includes the third proposal of AP4-New Prod)

The project should be executed by proven experts in the broad field of certification, heating markets, regulations, government policies and people with a good commercial mind.

Information on vote: Unanimous decision

Decision M21.D7 – To add an SCF call topic for broadening the scope of Quality for collectors and systems.

The SKN will propose a call topic for an SCF project for: “Broadening the scope of quality for collectors and systems”. The purpose of the project is to prepare and implement a plan to actively support developments aimed at standards or comparable references that could bring quality issues such as drinking water quality, construction issues, emission issues, energy costs issues and life cycle assessment issues to the level of a Solar Keymark certification scheme.

Information on vote: Unanimous decision

Decision M21.D8 – To add an SCF call topic for Adding value to the Keymark Certificates

The SKN will propose a call topic for an SCF project “Improve the added value of certificates by facilitating certified data to the most important databases, design and development tools”. In relation with the work done in other SCF Projects, this project will assure that the SKN database



facilitates links to most important databases, with a special importance to all ErP tools and also to design and development tools.

Information on vote: unanimous decision

Item 13 Proposal for Resolution: SCF project 6C14_1 - Other_model

Gerard v. Amerongen presented the conclusion of the first part of this SCF project. (See Annex H). It concerns the development of an open source hourly model for solar thermal systems based on the new EPBD standards prEN15316-4-3 and prEN15316-5. The project has been approved for the first phase and approved under the condition that the SKN approves during the meeting. The first phase has been successfully concluded with a demo-tool. The next phase will be the validation and extension for solar combi's. There is more information at <http://www.vaconsult.net/MainPages/SolTherm.htm>

After the presentation and a short debate, the following decision was taken:

Decision M21.D9 –SCF Project 6C14_1 – Other model is to continue with the second phase

The SKN agrees that SCF Project 6C14_1 – Other model should continue with the second phase.

Information on vote: Unanimous decision

Item 14 Report from WG to develop a new procedure for solar thermal system long term prediction according to EN 12977-2

Ulrich Fritzsche, Chair of this WG (which is also composed of Katharina Meyer, Maria Joao Carvalho, Oscar Mogro, Gerard Van Amerongen, Emmanuel Leger, Korbinian Kramer, Alberto Garcia and Stephan Fischer) presented their work and conclusions. (See Annex I).

Since it was necessary to elaborate a strategy before the main task of developing a new procedure for long term prediction could be started, the work of the group was stopped after a short initial survey. This survey regarding the state of the testing standards in relation to the Erp Directives was sent to the SKN and might support the idea of getting new services in place without reducing or significantly changing the existing ones. Any work in the future is directly related to the topic related to Decision M21.D6 Broadening the scope of the Solar Keymark

Item 15 Report or Update on “Inter-laboratory Comparison - ILC on Data Analysis”, SCF7 Project

Andreas Bohren communicated that there was still some work going on that that it would be finalized and presented at the next SKN meeting of March 2017.

Item 16: New Equivalent absorber coatings



Stephan Fischer was not present at the meeting so the work will be presented at the next SKN meeting of March 2017.

Item 17 New Equivalent glazing

There were no proposals in this section.

Item 18: Resolution from WG composed of Katharina Meyer (leader) and Jaime Fernandez conc. proposal 11 in N0268R1 Regarding OEM and OBL Certificates:

Katharina Meyer, chair of WG composed also of Jaime Fernández presented their work and conclusion.

The work was based on proposal 11 of document [SKN_N0268R1](#) regarding the traceability between OEM and OBL Solar Keymark datasheets. A survey was done among the CBs asking how the traceability was handled. There were two ways of working; one of them was by publishing a new test report for the OBL Certificate that offers directly the traceability between the products on the OEM and OBL Certificates. The other way was by the CB having a direct traceability in its internal files. In any case it was always understood that this was a direct responsibility of the CB. After a short discussion, and in order to assure this responsibility of the CBS, the following decision was taken:

Resolution M21.R1 – Modification of section 4.1.1 of Annex G of the Solar Keymark Scheme Rules

To add the following paragraph on section 4.1.1 of Annex G of the Solar Keymark Scheme Rules.
 4.1.1 Information on correlation between original test reports and OBL certificates and data sheets:

All certification bodies are responsible for having available the information regarding their issued OEM and OBL certificates.

If the collector models(s) listed on the Solar Keymark data sheet cannot be correlated unambiguously with the collectors mentioned in the test reports, the correlation must be known and documented by the certification body that issued the certificates and made available if the OBL and OEM companies agree.

Information on vote: 0 negative votes, 1 abstention

Item 19: Proposal for resolution

Jan Erik Nielsen presented a problem that happened regarding the use of the old and new data sheets of OBL and OEM Keymark Certificates and had made a proposal for a resolution.

After some debate, it was decided not to present any resolution since the it was clear that once the retesting is done to the products of an OEM Keymark Certificate and this one is changed, then it is necessary to change also the OBL Keymark Certificates that are associated to it.

Jaime Fernández presented a proposal for resolution regarding the data sheet. A problem has been found when renewing a certificate tested by EN 12975-2, or granting an OBL certificate whose original is based on EN 12975-2. Calculations according to EN ISO 9806 are done and in the comment area there is declaration that the original test is done according to EN 12975-2. This leaves a data sheet that is not very clear, since



the top left hand of data reads "Summary of EN ISO 9806:2013 Test results" , and so far some clients have needed an extra explanation on what seems to be a contradiction in the data sheets.

After a short debate it was acknowledged that there could indeed be a clear indication as to which standard was originally used for the test, whether EN 12975 or EN ISO 9806 (or even its future revision). Since it did not seem an urgent matter it was considered that it could be taken into account on the next Resolution affecting the data sheet.

Item 20 Exchange of insulation material in collectors "Equivalent insulation"

Andreas Bohren presented the result of SCF Project 7C08- Insulation which was prepared in collaboration with João Carvalho. The document [SKN_N0288R0_InsulationExchange](#) offers the possibility for thermal Insulation materials in certified solar thermal collectors to be exchanged without retesting under certain conditions. There is a proposal to create a new Annex K of the Solar Keymark Scheme Rules and also a database of insulation materials.

After the presentation some technical comments and possibilities for improvement were proposed. Since the document is considered a good base but may need some fine tuning, the following decision was taken:

Decision M21.D10 – The document SKN_ 288r0 insulationExchange will be studied to be presented for a Resolution at the next SKN meeting

The document SKN_ 288r0 insulationExchange will be studied by members of the SKN. Comments are to be sent to Andreas Bohren before the 30th before the 30th January 2017 and a final document will be presented for Resolution at the next SKN meeting.

Information on vote: Unanimous decision

Item 21 Proposal to reduce SKN CO₂ Footprint / Andreas Bohren

Andreas Bohren presented document [SKN_N0289R0_ReducingSKNCO2footprint](#) in which there is a proposal to reduce the CO₂ footprint and the financial impact of Solar Keymark Certification by substituting every second inspection and every second SKN physical meeting with an online one.

The discussion was divided in two parts, starting with the web meetings. A debate was started regarding the technical difficulties that might arise in a web meeting with around 40 participants. Since there was a general consensus about trying the idea, the following decision was taken:

Decision M21.D11 – To prepare the way to have one physical SKN meeting and one or two SKN web meetings in the year

The Chairman and Manager of SKN and SKN Secretary will propose a new way of meeting so that only one physical meeting takes place and one or two web meetings take place.

Information on vote: Unanimous decision



Regarding the possibility of doing web inspections, there was some concern from the CBs about the effectiveness of these inspections and also about the possibility of being included in the scope of accreditation. There was a proposal to do a trial web inspection before taking a final decision also. Since it was not possible to give a positive answer during the meeting and it needed a more detailed analysis, the following decision was taken:

Decision M21.D12 – Proposal to do every second inspection visit via web

The CB WG will study this proposal and come back with an answer at the next SKN meeting. This analysis will include also working with inspection bodies based in other locations in order to reduce travelling costs and CO₂ emissions. The inspection bodies interested in preparing a pilot project may contact their corresponding CB in order to prepare the work and present conclusions at the next SKN meeting.

Information on vote: Unanimous decision

Item 22 Situation of the Market, expectations and work plan of ESTIF

This meeting could be considered a special occasion because it counted with the presence of Robin Welling, President of ESTIF. He offered a presentation about the Achievements and Challenges in the European Solar Thermal Industry. (See Annex J)

- Market overview: There has been an annual average growth of 2.5% seen over the last 10 years, but the last 5 years have shown a market decrease.
- Policy overview: The 2020 EU target for solar thermal will not be achieved
- Market challenges: Facing low carbon based energy prices and strong RES competition, adopting a consumer oriented approach, becoming a standard solution for building renovation, exploiting new market segments, electrification of heating & cooling
- Policy challenges: Negotiating the 2030 framework, finding the right place in the EU energy mix for solar thermal, becoming competitive beyond public incentives

Item 23 Solar Certification Fund Projects – General Status Reports

Pedro Dias gave a status of the SCF Projects. (See Annex k). So far 94 Projects have been approved. At the moment there are 13 Projects reporting and 27 are ongoing. There Projects could be more visible in the Solar Keymark website and there is a wish to improve and make an easier access to all the deliverables.

Item 24 Update on Global Solar Certification Network & Proposal for decision for SKN/SCF support to GSCN

Jan Erik Nielsen, Manager of Global Solar Certification Network presented its status (See Annex L) and the work developed with the help of SCF6-9. Having approved the final documents within 2016, the first members are joining. The GSCN facilitates the networking and acceptance of inspection and test reports between CBs throughout the world.

There was a proposal by Jaime Fernández to link the growth of the GSCN with helping the recognition of the Keymark around the world but it was decided not to take any decisions in this direction.

Item 25 Information from CEN Keymark Management



Katharina Meyer informs on the role of DINCERTCO as KMO and the development of new Keymark Schemes. (See Annex M). In the past year there have been two meetings for Keymark Exchange of Experience meetings and a new certification scheme for heat pumps has been started. The plans for 2017 are to update the CEN database, develop new certification schemes and increase the scope of those existing ones, and to develop marketing activities.

There was a continuation of the debate regarding the activities of the KMO which took place in item 9 and it will further continue in the working group that will be led by the KMO for the promotion of the Keymark (Decision M21.D3)

Item 26 Presentation of proposal for strategy of SKN

Jaime Fernández presented a proposal for a strategy for the Keymark in document [SKN_N0293R1_SKN-Strategy](#) and Management table. (See Annex N). In the last SKN meeting of March 2017 there was a presentation (see document [SKN_N0280R3_ManagementTable.pptx](#)) in which the SKN was analysed as if it were a company. There was a SWOT analysis, the 5 forces of Porter, a study of who is the client, the key activities and the elements of success. The purpose of this exercise was to offer different analysis with the purpose of establishing a strategy that is in line with the objectives of the main stakeholders: ESTIF (license holders), CEN, and members of SKN. The implementation of the strategy would be done through working groups and SCF Projects. Some specific working groups were created regarding 4 different actions plans. Once the working groups had presented their work at this meeting, a document with a first draft for a strategy was presented.

After some debate regarding the best way to establish and continue further work, the following decision was taken:

Decision M21.D13 – Establishment of a WG to develop the strategy of SK

A WG to develop the strategy of the Solar Keymark will be established. In order to support the work of the WG an SCF call will be developed with the input of the WG.

Members are Jaime Fernández (chair), Harald Drueck, Gerard Van Amerongen, Jan Erik Nielsen, Ullrich Fritzsche, Katharina Meyer, Pedro Dias, Christian Stadler, Korbinian Kramer and Henry Rosik.

Information on vote: Unanimous Vote

There were also two more proposals concerning the way that some SCF Projects could be considered with a special status when related to the strategy and also about how the strategy could be revised in an annual cycle. Since there was not a clear consensus on these issues they were not treated further in the meeting.

Item 27 SKN fees and budget for 2017 and other financial issues

Jan Erik Nielsen and Pedro Dias presented the Estimated SKN fee income 2017. There is an expected reduction in the income for 2017 of 7% with respect to that of 2016. The proposal is to maintain the same fees for the license holders and the same budget for the Manager, Chairman and ESTIF. There would then be an expected reduction of 12% in the amount allocated for SCF Projects.

After presenting the information, the following decisions were taken:

Decision M21.D14 – Approval of Budget for 2017



The budget for 2017 is presented within document SKN_N0290R0-SKNbudget2017 and is approved

Information on vote: Unanimous Decision

Resolution M21.R2 Fees for 210 are not changed in Annex C of Solar Keymark Scheme Rules

The document SKN_N106_AnnexC is modified by indicating that the fees refer to the year 2016 instead of the year 2015.

Information on vote: Unanimous decision

Item 28 Proposal for decisions: Priorities for SCF 8th call

Harald Drück, Chairman of the Solar Certification Fund (SCF) presented the proposals for topics. As a result of the action plans many of the proposals had been decided upon as a conclusion of the outcome of the different working groups. After some debate and exchange of ideas, the following decision was taken:

Decision M21.D15 –Proposals for call topics

- Co-financing project to develop an alternative to In-Situ software for system testing
- Solar Keymark Scheme rules for absorber coatings (follow-up project)
- Elaboration of Strategy for Solar Keymark
- Broadening the scope of the Solar Keymark with respect to products
- Broadening of the scope of Solar Keymark Certification with regard to quality issues for collectors and systems
- Adding value to the Keymark Certificates
- Financing of liaison officers
- Promotion of Solar Keymark
- Elaboration of modified acceptance criteria regarding the results of special test (section 6.3 of Solar Scheme Rules)
- Any other good ideas

Information on vote: Unanimous Decision

With respect to the schedule, the following was decided upon:

- Call will be launched on the 10th November at the latest.
Note: Comment from SKN Manager: It is not possible to launch call 10th November – earliest possible will be 14th November (due to hearing process in steering group and others)
- The deadline for handing in proposals will be the 20th December

Item 29 Proposals for improving SCF working rules / JEN / JF / Harald Drück

Jan Erik proposed an improvement in the timing for payment of the SCF Projects. After some discussion as to how to improve the procedure, the following decision was taken:

Resolution M21.R3 – Improvement on period of paying of SCF Projects



Period from project being finalized until final payment should be limited. Proposal for resolution concerning this: "Final payment for finalized SCF projects shall be done at latest 6 months from receipt of all required material from the project if there are no objections from any evaluator. Evaluation of finalized SCF projects shall be done in due time to comply with this. Projects waiting for more than 6 months of the time of this decision shall receive payment within one month.

Information on vote: 1 abstention

Jaime Fernández had proposed an improvement on the Working Rules of the SCF. The following decision was taken:

Decision M21.D16 – Establishment of a WG to improve the SCF Working Rules

The WG should deal with the following issues:

- Create a short procedure to allow the possibility to present allegations in case a Project is not approved and the presenter is not satisfied with the reason
- Increase flexibility of approval of Projects under special circumstances
- Reduce bureaucracy and speed up the process
- Increase control of overdue Projects
- Improve procedure where there maybe conflict of interests during evaluation process
- Clarify election process of SCF members and Chair'

Members of WG: Harald Drück(chair), Jan Erik Nielsen, Jaime Fernández, Pedro Dias. A proposal for a resolution for modified SCF Working Rules will be presented at next SKN meeting.

Information on vote: Unanimous decision

Harald Drück informed about the election process for chairman of the SCF. According to the SCF working rules this elections should take place every two years. However up to now the elections have not taken place. There will be an election of Chairman of the SCF at the next Steering Group Meeting which is expected in the end of January.

Item 30: Proposal to choose a new Inspection Body WG leader, maybe prepare exchange of experience of inspectors for 2017 and regarding, SKN_N0106_AnnexA1(b)

This issue was debated at the CB WG without finding a final solution. Since it is not an urgent matter it is postponed for the next SKN meeting of March 2017.

Item 31 Proposals for resolution with respect to the updating of datasheets

Jan Erik presents a proposal to improve the process of updating of datasheets in the Keymark web site. The following Resolution is presented and approved :

Resolution M21.R6– Modification of Sections 2.1 and 17 of SKN_ N106R.28 regarding the Timeline for updating and withdrawing data sheets on web site



The following phrase in section 2.1 is eliminated: *Updated lists of certified products shall be sent to the Solar Keymark Network manager each month.*

The text of section 17 of Solar Keymark Rules is substituted by:

The certification bodies shall inform the Solar Keymark manager about Solar Keymark certificates issued and withdrawn within two weeks from issuing / withdrawing. In case of new certificate, certificate / data sheet shall at the same time be provided to the Solar Keymark manager. The Solar Keymark database shall be updated within two weeks from notification from certification body.

Information on vote: Unanimous decision

Korbinian Kramer presented a proposal with the objective to assure that the information on the database of the Keymark website is adequate and correctly updated. The following Decision was taken:

Decision M21.D17 – Incomplete data sheets

Incomplete data sheets shall be deleted from the database and certificates withdrawn if the data sheets have not been complete for more than half a year already. New certificates are only valid with complete data sheets.

Information on vote: Unanimous decision

Korbinian Kramer presented a proposal concerning the validity of the Keymark Certificates being linked to its corresponding entry in the database. This proposal comes into conflict with the fact that granting of the Keymark Certificates by CBs is independent of any publication in websites. However the Keymark database is the most used point of information for searching Certificates and there has been some confusion regarding the way to verify the authenticity of companies claiming to have a Keymark Certificate when they were not found in the website. Since this issue needed more time it was postponed to the next meeting and the CBs would take the item to their next CB WB meeting and come up with a proposal on how to handle the problem

Item 32: Proposals concerning solar collectors: “No Solar Keymark requirements for solar collectors exceeding the scope of the solar collector standards EN12975-1 & EN/ISO9806”

Andreas Bohren presented the problem related to having too many extra requirements on certified products, and especially regarding PVT collectors.

Since this issue required more time for a proper exchange of opinions and its corresponding debate and at this moment of the meeting time was running short, it was decided to postpone it for the next SKN meeting and to place as one of the first items on the agenda.



Related to this item is the proposal of decision to reactivate the PVT WG to review annex J, so this item will also belong to the agenda of the next SKN meeting.

Item 33: Proposal for a resolution amending 6.1 of the Solar Keymark Scheme Rules / Andreas Bohren

Andreas Bohren made this proposal based on the following problem:

By transferring results from one to another collector the 10 years retesting regulation can be bypassed easily. Example for illustration. A collector X was tested and certified in 2005. In 2013 another collector Y was tested and certified. For any reason, the test lab transferred most of the results from collector X and included these results in the test report / Keymark. For collector Y the test date is then 2013, meaning that in 2023 when the next test is due, most of the results were already measured 18 years ago, which was most probably not the intention of the 10 years regulation

Resolution M21.R7– To modify section 6.1 of Solar Keymark Scheme Rules

Section 6.1 is amended with the following text :

A complete re-testing of solar thermal products is required if:

The first measured or tested result for the certified product is dated more than 10 years ago.

Information on vote: Unanimous decision

Item 34: Safety valves in Solar Keymark certified Systems

Ulrich Fritzsche presented this proposal related to Safety valves in Solar Keymark certified Systems. Up to now, there are only a few safety valves tested according to the required standard EN 1489 (EN 1490). As the new revision will require the conformity with this standard “The safety valves shall conform to EN 1489”, this might cause problems for many manufacturer. Even TÜV Rheinland Group had no test facilities and could only perform witness testing for that standard on request. For the safety valve manufacturer, this standard is not relevant, as it is not harmonized to PED (Pressure Equipment Directive). So, the manufacturers are usually using EN ISO 4126-1 and -7 for their declaration of conformity with the PED.

After the presentation, the Decision was taken:



Decision M21.D18 – To treat EN ISO 4126-1 and EN ISO 4126-7 as “equivalent” to EN 1489 and 1490 as minimum requirement for Solar Keymark certification.

The SKN decides to accept the harmonized European standards EN ISO 4126-1 (Safety valves) and EN ISO 4126-7 (Common data) as basic requirements for safety valves used in Solar Keymark certified systems. These standards should be incorporated into EN 12976-1 and EN 12976-2 within their next revision.

Information on vote: Unanimous decision

Item 35: End of meeting

At this moment it was necessary to stop the meeting because of lack of time. Harald Drück proposed that the rest the items pending could be solved in a web meeting. This would allow to put into practice the Decision M21.D11 (To prepare the way to have one physical SKN meeting and one or two SKN web meetings in the year) and also solve the issues in a relatively short time.

After checking everybody's agendas, it was agreed to have the next SKN Meeting on the 20th December, from 10:00 to 13:00. This will be the first web meeting of the SKN. Information on the agenda will be sent shortly.

Jaime Fernández thanked everyone for their participation in a very intense and fruitful meeting. Jan Erik Nielsen was thanked again for an excellent preparation and Vassiliki Drosou for hosting the meeting.

Annex A-Participants

Solar Keymark Network meeting 17 - 18 October, Crete

First name	Last Name	Company/organisation	Country	e-mail	Signature Monday 17/10	Signature Tuesday 18/10
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GEORGE	NIKOLAIDES	TUV CYPRUS LTD	CYPRUS	gnikolaides@tuv-nord.com		
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Jan Erik	Nielsen	SolarKey Int.	Denmark	jen@solarky.dk		
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Emmanuel	LEGER	CERS BELENOS	FRANCE	emmanuel.leger@belenos.pro		
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WEB participants SKN 21th meeting

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Annex B-Proposal for new complaint procedure

Solar KEYMARK-Certification

Complaint procedure

Katharina Meyer, 14 November 2016

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Complaint procedure – Overview.

Step	Activity	Duration
STEP 0	Complaints to Customer Care	1 Month to send action plan to complainant
STEP 1	Complaints to Complaints Handling Unit, Engineering and Maintenance of STEP, Site Manager	1 – 4 months for recommendation to CB
STEP 2	Complaints to Service Management (Customer Service)	1-2 Months to send recommendation to CB
STEP 3	Complaints to CB	1 Month to take decision towards CB


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[illegible][illegible]


Advisory Committee (Standing Working Group).

- Made up of:
 - ▶ Head of CB WG
 - ▶ Chairman of SKN
 - ▶ Manager of SKN
 - ▶ Representative of Testing Laboratories
 - ▶ Representative of ESTIF
- Comes into action:
 - ▶ If a complaint cannot be settled between a complainant and a CB




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Third Party Team.

- Made up of:
 - ▶ Members of SKN with more than 7 years experience in their field
 - ▶ Pool of experts to be chosen by SKN
- Must be neutral, not involved in the complaint and sign confidentiality agreement
- At least one, but numbers not limited
- Report to advisory committee

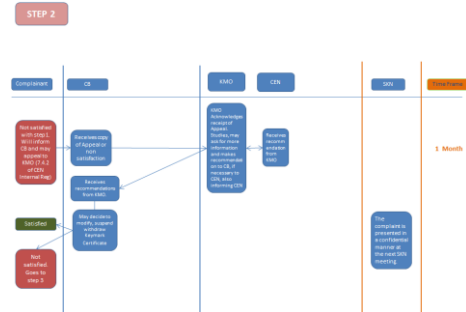


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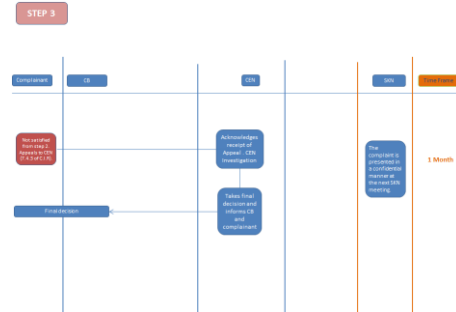
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Complaint procedure – Step 2.



Complaint procedure – Step 3.



Proposal.

- 1. Change of section 2.2. and rename to Complaints
- 2. Change first paragraph of section 6.3. to
 - ▶ Complaints concerning the conformity of a certified product are handled according to [1] section 10.5 (Complaints section) and 7.4 (Appeal procedure) of [CEN Internal Regulations Part 4 and section 2.2 of this document](#).
- 3. Change Annex I to Annex Ia
- 4. Add visualisation of complaint procedure as Annex Ib
- 5. set up a WG for revision of section 6.3.

Finally ...



... thank you very much for your attention!

At your Service.



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Annex C - SKN WG Communication and Marketing



Solar Keymark

SKN WG Communication
21st SKN meeting
Crete, 17-18 October 2016

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

SKN WG Communication

- AP2: Improve Marketing and Communication activities
- Members:
 - Pedro Dias (Chair), Jaime Fernandez, Henry Rosik, Britt Bremer (Oscar Mogro), Christian Stadler, Jan Erik Nielsen
- Proposals for discussion:
 - Marketing and Communication Activities 2017

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

Marketing and Communication

- Plan for 2017
 - Support promotion work of SKN members
 - Improve SKN website
 - Improve SKN internal & external communication
 - Push for a stronger Keymark notoriety

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

SKN WG Communication

- Support promotion work of SKN members
 - Keymark brochure: improve current version
 - New brochure: a simple approach
 - Presentations (ppt): update and improve current versions
 - Video: SK explained (simple)

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

SKN WG Communication

- Improve SKN website
 - Update existing website
 - Assess possibilities for new functionalities on the website

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

SKN WG Communication

- Improve SKN internal & external communication
 - Enhance news generation on SKN related topics.
 - Publish SKN newsletter
 - Evaluate potential for increasing SKN use of social media

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

SKN WG Communication

- Push for stronger Keymark notoriety
 - Promote enhanced commitment of KMO to Keymark promotion and development
 - Enhance notoriety of Keymark with regard to Heating & Cooling (RES-HC & EE)



THE Quality Label for Solar Thermal Products in Europe

SKN WG Communication

- Next steps
 - Continue activities of WG
 - SKN stakeholders to contribute
 - Survey: <https://goo.gl/WFM3tE>



THE Quality Label for Solar Thermal Products in Europe

Annex D - New Keymark Scheme for Heat Pumps

Heat Pump - Keymark

Solar keymark network meeting |
Crete | 17.10.2016

- Laure Meljac, Atlantic – chairing the HP-Keymark steering committee

Overview of Heat Pump certification in Europe

Governmental subsidies

National EPBD calculations

National certification schemes / labels / testing requirements

More than 10 national labels / certifications / testing requirements

Entering a new market is time consuming and costly

Heat pump industry target

- Single European certification
- Recognised by all member states

Working group including certification bodies - DIN CERTCO – manufacturers established early 2014

CEN – HP-Keymark available since March 2016

So far: 4 certification bodies – 43 certificates

HP-Keymark organisation

CEN - Heat Pump KEYMARK

Scheme Group for Heat Pumps (SG-HP)

Secretariat SG-HP (operator) = EHPA

Steering group

Inspection Bodies

Manufacturers

Testing Laboratories

Certification Bodies

European certification scheme
Inspection documents
Testing documents
Internal rules
Mutual Recognition documents

Annex E - Proposal for installation certification

Solar KEYMARK-Certification

WG "Installers and Installations"

Katharina Meyer, 14 November 2016


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Future work.

- Questionnaire for estimation of current situation
 - ▶ Addressed at national associations, manufacturers and interested parties
- Analysis of existing studies, e.g.
 - ▶ QualiCert (2011)
 - ▶ SUNTRAIN (2004)
- Analysis of existing certification schemes, e.g.
 - ▶ Austria
 - ▶ Spain
- SWOT-Analysis
- Identification of potential for KEYMARK certification scheme for installers and installations


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Results so far.

Analysis of situation in Europe


- PROs for continuation:
 - ▶ Different schemes in EU
 - ▶ Necessity of harmonization within EU
 - ▶ EU member states without schemes
 - ▶ Mutual recognition between schemes accessible
- CONs against continuation:
 - ▶ No EN Standards describing the installation of solar thermal systems
 - ▶ Different regulations in different member states
 - ▶ Different market needs


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Questionnaire – exemplary Questions.

Country	□
A.-Certification-Schemes	
Is there a certification scheme for installations of solar thermal collectors/systems (CSI) in the country?	□
Who administers it?	□
Are there some influencers who can help to modify the CSI?	□
Is the CSI available in a single document? (if so, please attach)	□
Is the CSI implied by a specific national regulation? (eg an act or government decree – if so, please attach)	□
B.-Market opportunities	
Please try to estimate how many (domestic) entities do the installations: □	thousands □
How many of them are certified? □	% □
How big share of the national market can the certified entities represent? □	% □
How many of the national installers are active abroad? □	% □
How many of them are certified? □	% □
How many of the installations are done by foreign entities? □	% □


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Results so far.

Analysis of situation in Europe


- Additional information:
 - ▶ New RES Directive
 - ▶ Outcome from other „working groups“
 - Build-up initiative
 - QualiCHeCK
 - Horizon 2020 projects
- Opportunities:
 - ▶ Revision of RES Directive


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Proposal.

- Continue the WG for another 6 months.

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Finally ...



... thank you very much for your attention!

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Annex F - Proposal for new products

Solar KEYMARK-Certification

WG "New products"

Katharina Meyer, 14 November 2016



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New products – II.

Energy Performance of Buildings Directive (EPBD)
- standards aimed at heat generators

prEN15316-4-1a	Space-heating-generation-systems, combustion-systems (boilers, biomass)a	11
prEN15316-4-2a	Space-heating-generation-systems, heat-pump-systemsa	11
prEN15316-4-3a	Thermal and PV-solar-systemsa	11
prEN15316-4-4a	building-integrated-cogeneration-systemsa	11
prEN15316-4-5a	district-heating-and-coolinga	11
prEN15316-4-8a	Space-heating-generation-systems, air-heating-and-overhead-radiant-heating-systems, including stoves (local)a	11




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Task of WG „New products“.

- Identify products to be included in the scope of Solar KEYMARK certification



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New products - III.

Other relevant EPBD standards

prEN15459-1a	Economic-evaluation-procedure-for-energy-systems-in-buildingsa	12
prEN15378-1a	Inspection-of-boilers, heating-systems-and-DHWa	12
prEN15378-3a	Measured-energy-performancea	12
prEN12831-1a	Design-heat-load: space-heatinga	12
prEN12831-3a	Design-heat-load: water-heatinga	12
prEN15316-1a	General-and-Energy-performance-expressiona	12
prEN15316-2a	Space-emission-systems (heating-and-cooling)a	12
prEN15316-3a	Space-distribution-systems (DHW, heating-and-cooling)a	12
prEN15316-5a	Space-heating-and-DHW-storage-systems (not-cooling)a	12




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New products - I.

- PVT collectors
 - ▶ Certification possible since: beginning of Solar KEYMARK
 - ▶ Number of valid certificates low
 - ▶ Restrictive factors have to be analyzed and corrective actions proposed
 - ▶ Existing WG can be re-activated
- Air collectors
 - ▶ Certification possible since: 2014-05
 - ▶ Number of valid certificates low
 - ▶ Restrictive factors have to be analyzed and corrective actions proposed
 - ▶ New WG necessary



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New products - IV.

Building performance

ISO/prDIS 52000-1

EPBD methods for applications

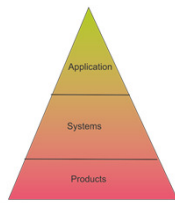
EPBD methods for systems

Product data

Building conditions

EN ISO 9808
EN 12976
EN 12977-3/4
EN 12977-5
...

↑ EPBD methodology




Application

Systems


Products

Interactions included

prEN 15316-4-1: Combustion systems
prEN 15316-4-2: Heat pumps
prEN 15316-4-3: Solar thermal/PV
prEN 15316-4-4: Cogeneration
prEN 15316-4-5: District heating
prEN 15316-4-8: Air heating
prEN 15316-5: Space heating & tank



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Annex G - Legal Requirements and Markets

vA Consult
Consultancy for renewable energy in the built environment



SKN decision M20.D10 on legal requirements and markets

Gerard van Amerongen
vAConsult
17.10.2016 Crete

1

vA Consult

The workgroup




- Members:
 - Gerard Van Amerongen (Chair), Ulrich Fritzsche, Pedro Dias, Jaime Fernandez, Oscar Mogro, Christian Stadler, and Korbinian Kramer.
- Produced a report on the issue
 - Distributed amongst the members of the SKNG

2

vA Consult


Result



- An extensive report covering the issue in detail
 - With links or omissions to Solar Keymark and standards
 - With proposals
- In the report:
 - Legal requirements directed to manufacturers and suppliers
 - Legal requirements that shape the market
 - Quality, support schemes and other mechanisms
 - Market trends
- The report is distributed

3

vA Consult




Evaluating and building it all together

SCALE OF SCOPE

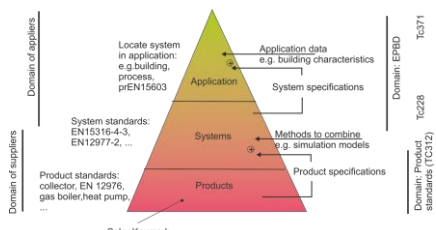
4

vA Consult

Solar Keymark scope




- Scale of the scope of the Solar Keymark
 - Currently the base of the pyramid



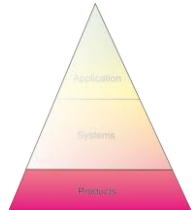
5

vA Consult

Solar Keymark scope



- Base of the pyramid:
 - SK core business
 - Domain of manufacturers and suppliers
 - Domain of TC312
 - EN12975, EN12976 and EN12977
- No end product but component
 - E.g. backup heating needed
- Higher parts of the pyramid require specs from the base components

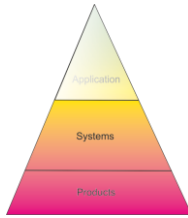


6

Solar Keymark scope



- Middle section of the pyramid:
 - Domain of TC 228 (EPBD)
 - prEN 15316 series
 - Domain of ErP labelling
 - Domain of suppliers of heating products
 - Whole salers, product databases, design tools, ...
- Not in Solar Keymark (yet)
 - System performance not well covered
 - E.g. HP or gas boiler and ST
 - ErP package label methods
- Opportunity for EN 12977-2 and SK

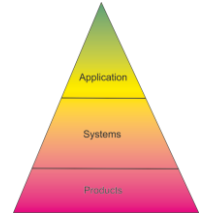


7

Solar Keymark scope



- Top segment of the pyramid:
 - Domain of appliers
 - Engineers, installers, builders, ..
 - Domain of TC371 (EPBD)
- Out of scope Solar Keymark



8

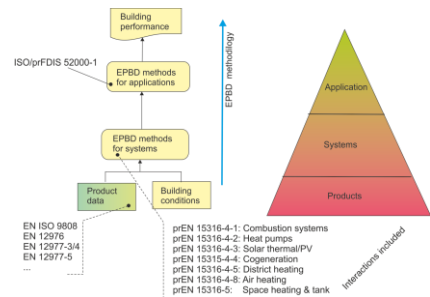
Solar Keymark scope



- Proposed Solar Keymark strategy:
 1. Ensure current product results find their way up the pyramid
 - Expose the SK database for other applications
 - Keep on promoting SK product data towards methods EPBD
 2. Look at expansion of SK upwards in the pyramid
 - Start with inclusion of SOLCAL
 - Implement EN12977-2 for hot water and combi as a first step towards:
 - Issues mainly: reference conditions!
 - Add scheme for gas boiler or heat pump ST combinations
 - EPBD standards offer all you need

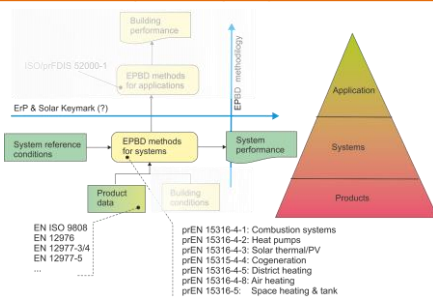


Putting things together: EPBD model



10

Putting things together: Solar Keymark proposed model



11



Evaluating and building it all together

BROADEN THE SCOPE ON 'QUALITY'

12



Scope on quality

- Currently: performance, safety and lifetime
- Currently extra issues:
 - Emission, energy costs, life cycle
 - On the level of systems
- Standards and methods are under construction
- Addition of these extended quality issues is recommended:
 - Tuned with the availability of standards and methods
 - Active support for these development is needed

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Evaluating and building it all together

ADDED VALUE

14



Solar Keymark added value

- Extend the services to our customers by:
 - In line with what we now are:
 - Add a certification for SOLCAL water heaters
 - Automatically generate ErP documentation (with SK stamp)
 - Add promotional tools to the certificates:
 - SK label collector, SK label SDHW system, SK label Combi system, ..
 - Open up the Solar Keymark database:
 - For product databases (BIM, Labelpack A+, VdZ, FROnT,)
 - Link the Solar Keymark database to design and evaluation tools (Breeam, Leeds EPBD tools, ...)

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As a result the following decision are requested:

PROPOSALS FOR DECISION

16



Decision 1 on broadening the scope of the solar keymark

- Continuation of the WG (with SCF support) in order to produce:
 - “A feasibility study aimed at scale of the scope of the Solar Keymark”
 - Goal:
 - Increase and ensure the future value of the Solar Keymark
 - Two paths:
 - Strengthen the use of the pyramid base data in its application for the upper parts (systems and applications)
 - Broadening the scope of the Solar Keymark upwards in the pyramid
 - Results:
 - Clear directions, timetables, types of customers and expected commercial values.
- Include certification schemes for ST systems with solar contribution
- Participants:
 - Experts on: certification, testing, markets, regulations & policies with a commercial mind

17



Decision 2 on broadening the scope of quality

- Continuation of the workgroup (with SCF support)
 - “Broadening the scope of quality for collectors and systems”
- Goal:
 - Way forward to support developments of standards and other references to come to the level of certification
- Issues:
 - drinking water quality, construction issues, emission issues, energy costs issues and life cycle

18

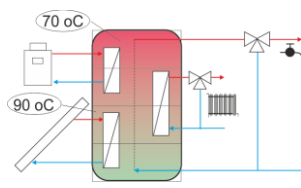


Decision 3 on added value

- Continuation of the workgroup (with SCF support):
 - “Improve the added value of certificates by facilitating certified data to the most important databases, design and development tools”
 - And other commercial outlets
- Goal:
 - Add relevant value to the SK database
 - Add relevant value to existing certification schemes

Annex H - Other model

oA Consult



Reporting and decision on:

SCF 6C14.1 OTHER MODEL

1

oA Consult

The project

- Open source simulation model solar thermal
 - Water heating and space heating (and combi)
 - Based on two EPBD hourly calculation methods:
 - prEN15316-4-3, 3 and prEN15316-5
 - Phase 1 approved by SCF:
 - Development of software water heating only and report on potential
 - Distributed for comments
 - Phase 2 addition of space heating and validation
 - Waiting for a decision of SKN today (SCF condition)

2

oA Consult

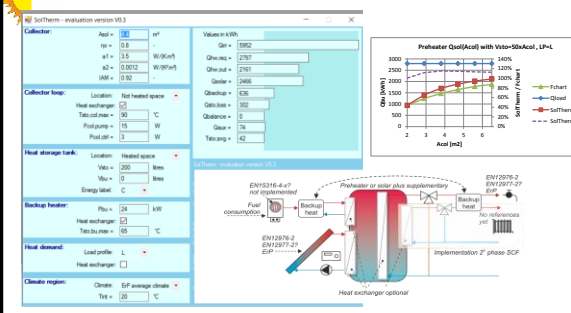
The potential

- More accurate than current open source tools
 - e.g. SOLCAL and EPBD
 - Limited number of inputs from our standards
- Excellent reference to CEN standards
- Application opportunities:
 - Preferred model for EN 12977-2
 - New model for EN 12976 (DST), but now open source
 - Commercial trade
 - ErP for improved methods water and space heating
- Benefits:
 - Good base for further common development
 - And new or revised SK certification schemes

3

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The model



4

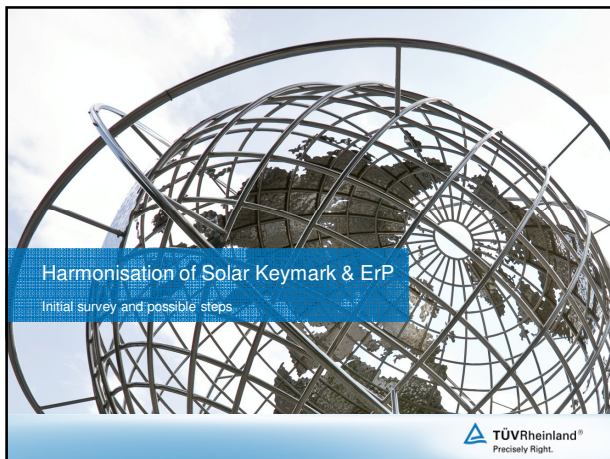
oA Consult

Request for a decision

- Can this meeting agree to start phase 2 of the project?
 - In order to make publicly available a open source hourly calculation model on solar thermal
 - with lots of potential

5

Annex I - WG for new procedure on EN 12977-2 - Harmonisation of Solar Keymark & ErP



Summary

Statement	Fully agree	Mostly agree	neutral	Mostly disagree	Totally disagree
ISO 9459-2 has lost its relevance now with new ErP requirements	3*	3	3*	4*	2*
We still need the system test procedure according to ISO 9459-2 for future Solar Keymark certification	3*	2*	4	5*	2
The existing "Lneg" method for calculating the ISO 9459-2 parameter out of ISO 9459-5 results is sufficient	1	2*	11	1*	
Helsinki instead of Stockholm and Strasbourg instead of Würzburg doesn't matter	6*	3*	6*		2
Davos should stay as an optional location for Alpine climate conditions	5*	3	6		3
The harmonisation of LTP boundary conditions between ErP and SK is important and helpful	14	1			
Harmonisation of boundary conditions of ErP and SK with respect to long term prediction will enhance the status of Solar Keymark certification for systems	13*	3			
The harmonisation of the LTP boundary conditions will help to raise the relevance of the EN 12977 system certification	12	1	2	1	

Main comments

- ISO 9459-2 will remain
- ISO 9459-2 still part of Keymark?
- Chance for adapt ErP tapping cycles???
- Substitution of climate locations uncritical
- Additional locations optional
- Clear climate data sets desirable
- Davos is also relevant for prEN 15316-4-3
- Current tapping profiles unrealistic
- Chance for the Solar Keymark

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Precisely Right.



Next Steps

Which are the most important steps for SKN and CEN TC 312?

- If ISO 9459-2 should stay, a distinction between solar only and solar + Supplementary might be necessary
- Solar only could stay as it was (mainly for TSS, at the moment >90% of certificates)
- Solar plus supplementary might be harmonized with ErP
 - Only ISO 9459-5 for EN 12976
 - EN 12977-2 for EN 12977
- Every ISO 9459-5 test result could be used for solar only evaluation too
- Two main categories for simple and for more complex systems
- A third one for DHW-heating useful
- ISO 9459-2 might stay as it is
- ISO 9459-5 need to be adapted to $\tau_{aux} > 0.75$
- EN 12976 is nearly complete
- EN 12977 might be completely revised or partly substituted by other standards

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Summary

Statement	Fully agree	Mostly agree	neutral	Mostly disagree	Totally disagree
ISO 9459-2 has lost its relevance now with new ErP requirements	3*	3	3*	4*	2*
We still need the system test procedure according to ISO 9459-2 for future Solar Keymark certification	3*	2*	4	5*	2
The existing "Lneg" method for calculating the ISO 9459-2 parameter out of ISO 9459-5 results is sufficient	1	2*	11	1*	
Helsinki instead of Stockholm and Strasbourg instead of Würzburg doesn't matter	6*	3*	6*		2
Davos should stay as an optional location for Alpine climate conditions	5*	3	6		3
The harmonisation of LTP boundary conditions between ErP and SK is important and helpful	14	1			
Harmonisation of boundary conditions of ErP and SK with respect to long term prediction will enhance the status of Solar Keymark certification for systems	13*	3			
The harmonisation of the LTP boundary conditions will help to raise the relevance of the EN 12977 system certification	12	1	2	1	

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Next steps

Solar Only systems (Solar Devices)

- Everything will be kept as it was
- Only one drain at the end of each day
- ISO 9459-2 and -5 able to be used
- Product fiches for solar devices could easily be included on additional pages of data sheet (But only for ISO 9459-5 tested systems)
- Clear distinction between ErP and SK boundary conditions and climate data sets

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Annex J - Achievements & Challenges in the European Solar Thermal Industry

Achievements & challenges in the European solar thermal industry

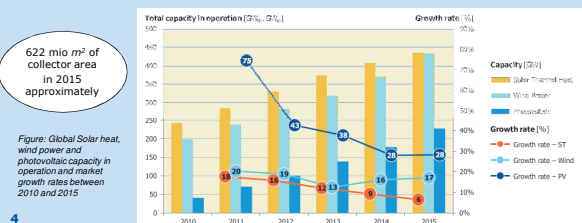
Solar Keymark Network Meeting
17 October 2016

Robin M Welling, President
European Solar Thermal Industry Federation (ESTIF)



Market Achievements Worldwide

- Year 2015
 - Solar thermal 8% of modern renewable heat output
 - Large-scale solar systems in district heating networks
 - Markets expanded for solar process heat in industry
 - Leading renewable energy technology in terms of cumulated installed capacity, with wind catching up

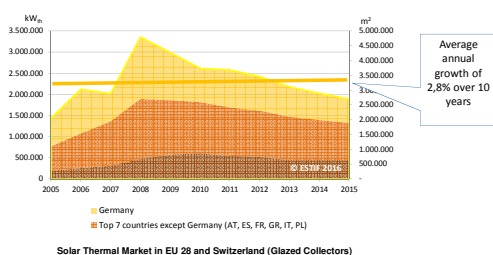


Achievements

- Market Overview
- Policy Overview



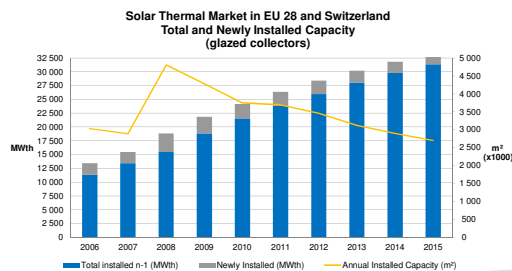
European Market Overview



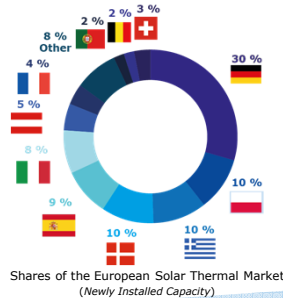
Market Overview



European Market Overview



European Market Overview



Shares of the European Solar Thermal Market
(Newly Installed Capacity)



7

Policy Overview

- Heating and Cooling Strategy:
 - a 'comprehensive approach to speed up the replacement of obsolete fossil fuel boilers with efficient renewable heating technologies';
 - A recognition of synergies between renewable heating and cooling and energy efficiency measures, such as building refurbishment;
 - The acknowledgement of the relevance of space and water heating package under the energy labelling framework



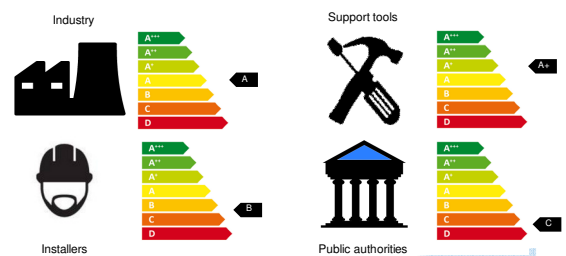
Policy Overview



8

Policy Overview

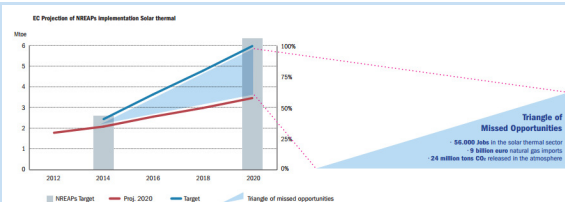
- Energy Labelling: Lot1 & Lot2 / Package label



11

Policy Overview

- 2020 framework: success or failure?
 - 2020 Legislative framework did not promote solar thermal technologies as needed. Key tool: RES-Directive not suitable for the heating & cooling decarbonisation.
 - With the current path, we will by far miss 2020 EU target for solar thermal, and achieve only half of what Member States planned: projected growth up to 3.7 Mtoe, against target of 6.4 Mtoe.



Policy Overview

- 'Solar thermal has been increasingly gaining ground'
- 'Solar thermal has become a common application in many countries'
- 'Solar thermal is widely used for Domestic Hot Water (DHW)'
- 'Solar thermal technology is mature'
- 'Solar thermal has been commercially available in many countries for over 30 years'
- 'Solar thermal barriers have been successfully overcome in some Member States'
- 'Solar thermal is the dominant technology for Domestic Hot Water in Cyprus and Greece'
- 'In Austria some cities already rely to a large extent on Solar District Heating'

European Commission, Strategy on Heating & Cooling, 2016



12

Challenges



Market challenges



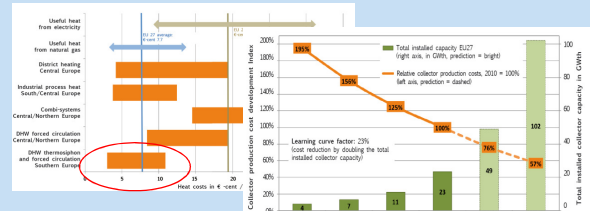
Policy challenges



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Market Challenges

- Refocusing on core segments & driving costs down
 - Solar thermal for domestic hot water as competitiveness spearhead
 - Increasing solar thermal domestic hot water deployment will in turn decrease costs for all solar thermal applications



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Market Challenges



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Market Challenges

- Adopting consumer oriented approach
 - Energy sector becoming more service oriented
 - Service based approach demands increased interconnectivity
 - ESCOs model will be extensively promoted in the next decade: be ready!
 - Understanding consumers' barriers to fuel switch
 - Upfront investment and awareness (info, trust, etc.)
 - Decentralized options interact with local and regional energy supply
 - Smart energy: smart cities, smart grids, smart meters. Everything will be connected.
 - Energy will be part of the 'Internet of Things'



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Market Challenges

- Facing low energy prices & strong RES competition
 - Fossil fuel subsidies phase-out to start in 2025 (G7)
 - Focus on additional, non-economic benefits of solar thermal: health, energy security, CO₂
 - Renewable Energy Sources for Electricity support landscape changing all over EU: less Feed-in-Tariff => improved level-playing field
 - Solar thermal sector needs to proceed to market oriented solutions (hybrids for 100% solutions)



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Market Challenges

- Becoming standard solution for building renovation
 - Reaching to huge potential of energetic renovation
 - Exploiting synergies with energy efficiency community
 - Better integration into building structure, including energy capture, insulation, weather protection and building aesthetics
 - Optimal, decentralized and efficient solution for Nearly Zero Energy Buildings (NZEBS), providing heat with heat



18

Market Challenges

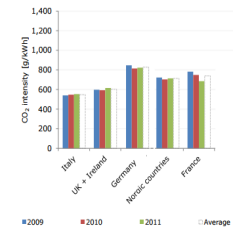
- Exploiting new market segments
 - District heating, industrial process heat and solar cooling have big potential for growth
 - Process integration, components standardization, projects replication
 - New business models/new partnerships to be explored
 - Increased R&D investment on Renewable Heating and Cooling



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Is Electrification Desirable?

- Electricity to be 55% RES?
- Is a rapid electrification serving RES or incumbent technologies?
- What would be the CO₂ impact of electrification if RES cannot cover all electricity expansion?



CO₂-intensity for fossil-fired power generation. Source: Ecofys



Market Challenges

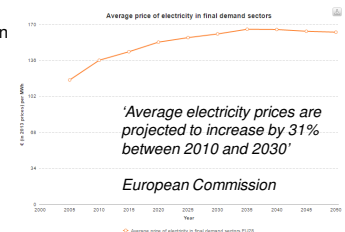
- Integration of energy system: electrification of Heating & Cooling!
 - Additional electrification of H&C certain development of future EU energy system
 - 100% electrification scenarios are being built today
 - they do not necessarily exclude solar thermal
 - Push forward differentiation between *smart* electrification and *wild* electrification
 - Explore CO₂ advantages of solar thermal over inefficient electric alternatives
 - Solar thermal as an energy-saving component of the system
 - Explore synergies with other techs/market players, promote hybrid solutions



20

Is Electrification Affordable?

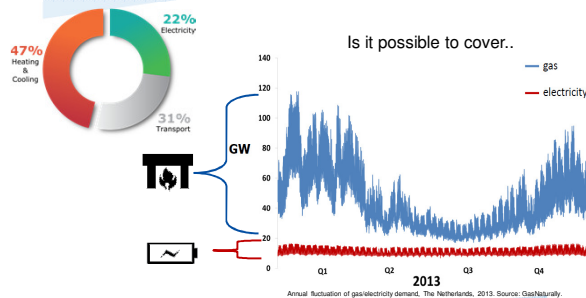
- Generation and distribution costs?
- Additional investment in the grid?
- Vulnerable consumers?



Consumers need **competition** in the market, not only between electricity suppliers but also between **energy forms** (electricity vs. heat)



Is Electrification Feasible?



Market Challenges: Summary

- Facing low energy prices & high RES competition
- Refocusing on core segments & driving costs down
- Adopting consumer oriented approach
- Becoming standard solution for building renovation
- Exploiting new market segments
- Integration of energy system: electrification of Heating & Cooling!



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Policy Challenges

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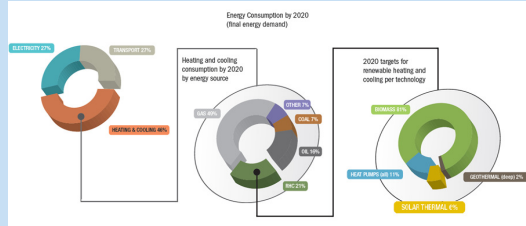
Policy Challenges

- Negotiating the 2030 framework: a new hope?
 - Commission changing: 2030 framework to better include heating and cooling sector
 - Heat strategy setting the frame for future policies
 - Specific measures are being investigated to promote fuel switch to renewables in Heating & Cooling in new RES Directive
 - Is the tide turning? How can solar thermal industry seize these opportunities?

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Policy Challenges

- Solar thermal place in the future EU energy mix
 - 2050 energy mix for Heating & Cooling
 - EU buildings decarbonized -> focus on solar thermal contribution as stand-alone solution
 - Negotiating the 2030 framework: a new hope?



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Policy Challenges

- New energy framework: 2030 & Energy Union
 - RES Directive post 2020: a new chapter for renewable heating & cooling solutions
 - Energy Efficiency Directive: finding synergies between solar thermal solutions and energy efficiency
 - Energy Performance of Buildings Directive: promoting solar thermal solution as the standard Domestic Hot Water solution for Nearly Zero Energy Buildings (NZEBs)
 - New Framework for Energy Labelling: fair terms for solar thermal in rescaling



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Policy Challenges

Solar thermal (and geothermal) to fill a 15% gap, growing from current 1% share of H&C.

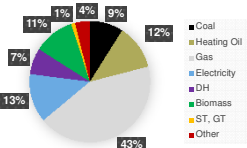
Solar thermal seen as a key technology for the EU future energy mix!

2050 energy mix for H&C

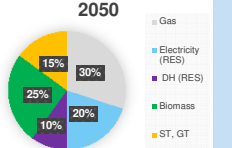
Promise of future performance not enough: competitive solutions needed today!

EU decarbonisation scenarios project more than 2/3 of final energy demand for DHW will come from solar heating OR decarbonised electricity

Energy mix H&C 2014



Energy mix H&C 2050

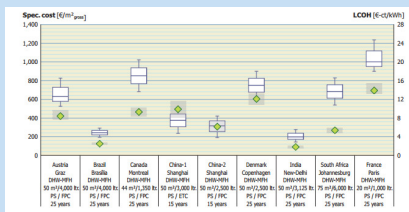


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Policy Challenges

- Competitiveness beyond public incentives
 - Support schemes in EU are evolving: new financial instruments being developed.
 - Projects aggregation and off-the-shelf solutions to engage financing community
 - More competitive solutions needed: also think energy costs
 - Cost reduction in prices to the final user
 - Installation costs and some cost improvement on components
 - Cost stability and predictability as competitive advantage

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Policy Challenges: summary

- Solar thermal place in the future EU energy mix
- Negotiating the 2030 framework: a new hope?
- New energy framework: 2030 & Energy Union
- Competitiveness beyond public incentives



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Contact us !!!

Networking opportunities and participation in strategic debates

Information and knowledge exchange

Increased profile and brand awareness

HAVE YOUR SAY!

STAY INFORMED!

GET VISIBILITY!

European Solar Thermal Industry Federation (ESTIF)
Place du Champ de Mars, 2
B-1050 Brussels

Tel: +32 2 318 40 60
Email: info@estif.org
Website: www.estif.org



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Annex K - Status of SCF Projects



Solar Keymark SKN meeting


21st SKN meeting
17-18 October 2016
Chania

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

Solar Certification Fund

- Closed projects
 - Report and deliverables approved by the SCF Steering Group
 - Balance payment done or being prepared
 - invoice requested or payment on pipeline
- Deferred projects
 - Projects that are on-hold
 - Waiting for one of the conditions for the project to occur (external)
- Cancelled projects
 - One case insofar - request from contractor
 - Possible also by SG decision in extreme cases


 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

Solar Certification Fund

- 94 projects approved so far:


– Closed:	45	– 1 st call:	9
– Reporting:	13	– 2 nd call:	7
– On-going:	27	– 3 rd call:	18
– Contracting:	3	– 4 th call:	16
– Deferred:	3	– 5 th call:	18
– Cancelled:	3	– 6 th call:	12
		– 7 th call:	14

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

Solar Certification Fund

- On-going projects
 - Projects that are being executed
 - Periodic reports available (for the majority) at the Disc. Board
 - Deliverables (or drafts) may be also available at the Disc. Board
- Reporting projects
 - Projects that have concluded their work
 - Pending approval, because:
 - Reports (or deliverables) are to be provided (uploaded at DB)
 - Secretariat is preparing evaluation files
 - Evaluators are assessing report and deliverables
 - Evaluators requested additional clarification or work


 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

Solar Certification Fund

- 1 013 745 EUR (approx.) allocated to projects


– 1 st call:	145 950 EUR
– 2 nd call:	79 910 EUR
– 3 rd call:	170 565 EUR
– 4 th call:	183 420 EUR
– 5 th call:	179 900 EUR
– 6 th call:	124 000 EUR
– 7 th call:	130 000 EUR

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

Closed projects (since March 2016)

Ref.	Project Name	Responsible	Start Date	End date	SCF funding
4C06	SK-12976	Danijana Theis	01-04-13	01-03-16	€15,310.00
Quality assurance procedures to assure harmonised of boundary conditions for the long performance prediction for factory made systems and automatic implementation of the performance results in the Solar Keymark data sheets					
5C1.5	SOLARKEYMARK_SP	Peter Kovacs	30-05-14	14-07-16	€7,100.00
This project will develop the ScenarioCalc tool further by including a calculation model that is still missing: Unglazed solar collectors under steady-state conditions.					

 **The Solar Keymark**
CEN Keymark Scheme

THE Quality Label for Solar Thermal Products in Europe

Canceled

Ref.	Project Name	Responsible	Budget
2C04	POQAS-SPF	Andreas Bohren	€5,000.00
	Solar Keymark Policing for Quality Assurance		
	PROJECT CANCELLED - Request from the contractor		
3C16	HarmRea_DINCERTO	Sören Scholz	€7,000.00
	Measures to harmonise the qualification requirements for inspectors and test labs		
	PROJECT CANCELLED - Request from the contractor		
6C03	Air-Cell-RR_ISE	Sefan Mehner	€11,000.00
	EN ISO 9806 Air collector intercomparison Test		
	PROJECT CANCELLED - Request from the contractor because it was not possible to find a consensus about the applied testing method.		

Reporting

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
5C4.4	LiaisonTC371_vAConsult	Gerard van Amerongen	30-05-14	31-03-15	€5,000.00
	The main focus of in this contractual period is the development of the revised EPBD standards (CEN mandate 480) that should be finalized before 1st 2015.				
	Evaluation				
5C5.1	TC12WG_SPF	Andreas Bohren	30-05-14	28-02-15	€6,000.00
	Part financing of CEN secretariat for solar collector working group (CEN/TC312 WG1)				
	Evaluation				
5C7.1	STANDARD_ISE	Korbinian Kramer	01-Jan-15	31-01-15	€10,000.00
	The goal of the project is to close a gap in standardisation, testing and reporting for certification regarding the Incident Angle Modifier (IAM) of Linear Fresnel Collectors (LFC).				
	Evaluation				
5C8.1	EPBD_vAConsult	Gerard van Amerongen	07-07-14	31-12-14	€15,000.00
	Development of Excel tools that describe the solar thermal calculation methods in prEN15316-4-3:2013 for evaluation purposes during the CEN enquiry period				
	Evaluation				
6C09	GLOBECERT_SKI	Jan Erik Nielsen	30-03-15	31-12-15	€14,000.00
	"New IEA-SHC Task on International Solar Standardisation and Certification"				
	Evaluation				
6C13.1.2.3	LiaisonTC164_TC228_TC371	Gerard van Amerongen	20-03-15	31-03-16	€10,000.00
	Liaison officer on behalf of CEN-TC312 to CEN-TC164, Liaison officer on behalf of CEN-TC312 to CEN-TC228, Liaison officer on behalf of TC312 to TC371				
	Evaluation				

Deferred

Ref.	Project Name	Responsible	Budget
3C14	CE-Bio-ESTIF	Pedro Dias	€8,250.00
	Information about CE-marking of solar collectors - target group manufacturers		
	Project did not start due to lack of approval of part 1 - EN12975.		
5C74	STANDARD_JMSuter	Jean-Marc Suter	€10,000.00
	Revision of EN ISO 9488 Solar energy - Vocabulary - German and French terminology: Translation and cross-border harmonization		
	Project delayed: the project "Revision of EN ISO 9488" was formerly canceled due to non availability of the English draft per September 2014.		
4C19B	Industry_Interaction	Pedro Dias	29-03-13
	Ensure a better involvement of industry resources in standardisation work		
	Project on-hold, awaiting clarification on next steps required regarding standardisations (namely within ESTESQ).		
7C12.1	Other_StoScal_ITW	Stephan Fischer	€10,000.00
	Development of calculation methods to reduce testing costs for the determination of heat losses for a series of stores		
	Contracting temporarily on hold - Request from the contractor		

On-going (contracting)

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
7C09.4	LiaisonTC312_SPF	Andreas Bohren	01-04-16	31-Mar-17	€5,000.00
	Primary objective of the project is to convene and administrate CEN TC 312/WG1 which is responsible for the elaboration of pr EN ISO 9806rev and pr EN 12975rev collector standards.				
	Contracting				
7C10	FlowScheme	Andreas Bohren	01-04-16	31-Mar-17	€6,000.00
	In this project a very condensed unique encoding of the above mentioned parameters is presented that will cover more approx. 95% of the collectors on the market.				
	Contracting				
7C12.2	Other_ILC_SPF	Andreas Bohren	08-03-16	31-Oct-16	€10,000.00
	IEC RowOutProcessing				
	Contracting				

Reporting

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
4C16a	EcoDes-12	Gerard van Amerongen	01-04-13	31-12-14	€15,000.00
	Preparing to meet the requirements of Ecodesign Energy Labelling with respect to testing.				
	Evaluation				
5C2.1	ECOLab_vAConsult	Gerard van Amerongen	30-05-14	31-03-15	€24,000.00
	As a consequence of the publication of the regulations on Ecodesign and the energy labelling in September 2013, the involved standards need to be harmonized (EN 12975, 12976 and 12977) according to the CEN mandate 495.				
	Evaluation				
5C4.1	UstTC117_ITW	Stephan Fischer	30-05-14	31-08-15	€5,000.00
	support the work of the liaison officer who will follow the work going on in the IEC/TC117 and the reporting to CEN/TC 312, ISO/TC180, the Solar Keymark network and the European Solar Thermal Energy Standardisation & Certification Working Group (ESTESQ).				
	Evaluation				
5C4.2	UstTC164_vAConsult	Gerard van Amerongen	30-05-14	31-03-15	€5,000.00
	The main issue during the contractual period will be the proposed revisions of the EN 806-11 and EN 806-22. Requirements of these standards are referred to in the solar thermal standards.				
	Evaluation				
5C4.3	UstTC228_vAConsult	Gerard van Amerongen	30-05-14	31-03-15	€5,000.00
	The main focus during the contractual period will be the revisions of the EPBD standards and more specifically the handling of the comments from the enquiry process.				
	Evaluation				

On-going

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
1C04a	EN13203-3 solar-SWT	Dominik Bestenlehner	20-07-11	31-08-14	€14,950.00
	"Solar friendly" alternative to "EN 13203-3"				
	Report has not been submitted				
5C1.2	SOLARKEYMARK_SKI	Jan Erik Nielsen	30-05-14	31-12-14	€10,900.00
	The Solar Keymark brochure will be updated - taking also into account the increasing interest in Solar Keymark in overseas countries. Standard presentations for use of Solar Keymark Network members to promote Solar Keymark will be updated and developed.				
	Interim report received				
5C1.4	SOLARKEYMARK_ISE(GuideUp)	Stephan Menhert	12-03-15	12-12-15	€10,000.00
	With the publication of the new substantially revised EN 12975 and EN ISO 9806 the guide and the brochure will be obsolete and need to be updated.				
	Interim report received				
5C13.1	GOODIDEA_vAConsult(Lego)	Gerard van Amerongen	30-05-14	31-03-15	€24,800.00
	Drafting a CEN Technical Report on Legionella prevention in amongst others solar water heaters.				
	Interim report received				

On-going

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
SC6.1	DATABASE_SKI	Jan Erik Nielsen	30-05-14	30-06-14	€15,100.00
All data from the Solar Keymark data sheets will be included in the searchable/sortable database. Option for showing/printing only selected data. <i>Interim report received</i>					
SC7.2	STANDARD_SWT	Harald Drück	30-05-14	28-02-15	€13,000.00
In order to perform the annual system simulation for solar combisystems, among others, space heating load profiles are required. <i>Report has not been submitted</i>					
SC7.3	STANDARD_ITW	Stephan Fischer	30-05-14	31-03-15	€5,000.00
Within the project test procedures and classifications for thermal insulation used in solar thermal collectors and thermal energy stores will be developed and pre normative documents drafted (ISO EN 12975) <i>Report has not been submitted</i>					
6C01	12977-RR_IFEP	Christian Weißmüller	19-03-15	28-02-16	€18,000.00
Round Robin system testing according to EN 12977-5 and EN 12977-2 <i>Final report received</i>					
6C04	Hight-Coll-RR_IFEP	Christian Weißmüller	20-03-15	28-02-16	€11,000.00
Round Robin test of medium temperature collectors related to Thermal performance based on ISO 9806:2013 <i>Report has not been submitted</i>					



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On-going

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
7C04	Label-DB	Gerard van Amerongen	01-04-16	31-03-17	€10,000.00
Addition of EIP documentation to Solar Keymark database <i>Interim report received</i>					
7C07	GLOBCERT	Jan Erik Nielsen	01-05-16	30-04-17	€15,000.00
Co-financing of participation in IEA-SHC task 57 concerning further implementation and promotion of Global Solar Certification and ISO standards. <i>Interim report received</i>					
7C08	Insulation	Andreas Bohren	01-05-16	31-03-17	€12,000.00
Insulation materials in collectors <i>Report has not been submitted</i>					
7C09.1	LiasTC228-371_vaConsult	Gerard van Amerongen	01-04-16	31-03-17	€7,500.00
Liaison officer on behalf of CEN-TC312 to CEN-TC228, 371: financial support for the TC312 liaison activities for a period of one year. <i>Interim report received</i>					
7C09.2	LiasTC164_SuterConsulting	Jean-Marc Suter	01-04-16	31-03-17	€5,000.00
Financial support for the TC312 liaison activities for a period of one year <i>Interim report received</i>					



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On-going

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
6C04X	12976 RR	Maria João Carvalho	20-03-15	28-02-16	€9,000.00
Round Robin for Factory Made Systems yield calculation and data sheet generation <i>Interim report received</i>					
6C05.2	22975-3-SK-SR	Jan Erik Nielsen	30-03-15	31-10-15	€8,000.00
Solar Keymark scheme rules for EN ISO 22975-3 <i>Interim report received</i>					
6C06	CE_SFF	Andreas Bohren	20-03-15	08-03-16	€11,000.00
CE Mark for Collectors <i>Report has not been submitted</i>					
6C10.2	LCA_SWT	Dominik Bestenlehner	20-03-15	30-04-16	€9,000.00
Elaboration of standardised methods for life cycle assessment of solar thermal products focusing on environmental and financial aspects <i>Report has not been submitted</i>					
6C13.4	LiasTC117_SWT	Stephan Fischer	01-10-15	31-10-16	€7,500.00
Support of liaison officer of ISO TC 180 to IEC TC 117 <i>Interim report received</i>					



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On-going

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
7C09.3	LiasTC117_SWT	Stephan Fischer	01-04-16	30-10-17	€7,500.00
Support of liaison officer of ISO TC 180 to IEC TC 117 <i>Interim report received</i>					
7C11	ScenoCalc	Patrik Ollas	01-04-16	31-01-17	€5,000.00
Continuous maintenance of the ScenoCalc calculation software to handle de-bugging and smaller changes implemented on the request from Solar Keymark Network (SKN) partners <i>Interim report received</i>					



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On-going

Ref.	Project Name	Responsible	Start Date	End (est.)	SCF funding
6C14.1	OTHER_MODEL_vaConsult	Gerard van Amerongen	20-03-15	31-03-16	€12,000.00
Open source hourly software tool <i>Interim report received</i>					
6C14.5	Other_Lai	Sebastian Laipple	07-11-15	17-09-16	€3,500.00
Support of CEN/TC 312 WG3 convenor <i>Interim report received</i>					
7C01	Label-New	Pedro Dias	01-04-16	31-03-17	€24,150.00
New approaches for solar thermal under energy labeling <i>Interim report received</i>					
7C02	Label-Thermosiphon	Pedro Dias	01-04-16	30-10-17	€15,000.00
Thermosiphon Task-Force <i>Interim report received</i>					
7C03	Label-Collector	Pedro Dias	01-04-16	30-10-17	€11,350.00
Support to the development of a Collector Label <i>Interim report received</i>					



THE Quality Label for Solar Thermal Products in Europe

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Solar Keymark SKN meeting

21st SKN meeting
17-18 October 2016
Chania




THE Quality Label for Solar Thermal Products in Europe

Annex L - GSCN Status

Status of the "Global Solar Certification Network"

SKN_N0311R0



The Global Solar Certification Network is a worldwide cooperation between:

- ☐ Collector manufacturers
- ☐ Certification bodies
- ☐ Test laboratories
- ☐ Inspection bodies / inspectors

SHC SKN 21st meeting Crete, October 2016 Jan Erik Nielsen
GSCN Manager, IEA SHC Task S7 Operating Agent

Status of the "Global Solar Certification Network"

Basic requirements

- ☐ Mutual recognition of test and inspection reports between 3rd party certification schemes:
 - ☐ Initial type testing - and surveillance testing
 - ☐ Initial inspection of the factory production control - and surveillance
- ☐ All operating bodies shall:
 - ☐ have relevant accreditation
 - ☐ comply to GSCN report format (= SKN report format)
- ☐ Basic standard is ISO 9806:2013 on solar collector test procedures

SHC SKN 21st meeting Crete, October 2016 Jan Erik Nielsen
GSCN Manager, IEA SHC Task S7 Operating Agent

Status of the "Global Solar Certification Network"

Concept

- ☐ Use **existing** certification schemes and have mutual recognition of test reports and inspection reports

SHC SKN 21st meeting Crete, October 2016 Jan Erik Nielsen
GSCN Manager, IEA SHC Task S7 Operating Agent

Status of the "Global Solar Certification Network"

Large potential savings for manufacturers

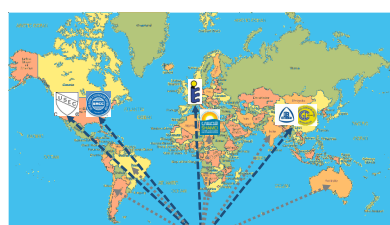
		ASSUMPTIONS	
		Initial testing	12 k€
		Annual inspection	4 k€
		Re-issuing test report	1.5 k€
		GSCN fee - initial	0.5 k€
		GSCN fee - annual	0.2 k€

	Manufacturer	A	
COSTS WITHOUT GSCN	No. certified products	8	
	No. certification regions	3	
	Initial testing	288	k€
	Annual inspection	12	k€
	Costs first year	300	k€
COSTS WITH GSCN	Costs following years	12	k€/year
	Initial testing	96	k€
	Re-issuing of test reports	12	k€
	Annual inspection	4	k€
	GSCN fee - initial	4	k€
SAVINGS WITH GSCN	GSCN fee - annual	1.6	k€/year
	Costs first year	116	k€
	Costs following years	5.6	k€/year
SAVINGS WITH GSCN	Savings first year	184	k€ 61%
	Savings following years	6.4	k€/year 53%


SHC SKN 21st meeting Crete, October 2016 Jan Erik Nielsen
GSCN Manager, IEA SHC Task S7 Operating Agent

Status of the "Global Solar Certification Network"

How it works



Reports fulfilling requirements given in GSCN Working Rules and done by test labs and inspectors recognized by GSCN.



SHC SKN 21st meeting Crete, October 2016 Jan Erik Nielsen
GSCN Manager, IEA SHC Task S7 Operating Agent

Status of the "Global Solar Certification Network"

Status for the Global Solar Certification Network

- ☐ Final set of working rules approved summer 2016
- ☐ Applications for formal membership from industry and operating bodies are being processed:
 - ☐ Industry: 3
 - ☐ CBs: 3 (+2)
 - ☐ Inspectors: 2
 - ☐ Test labs: 2
- ☐ Ongoing promotion of the GSCN ...
- ☐ System should be ready to operate in beginning of 2017
- ☐ **More members needed urgently**

SHC SKN 21st meeting Crete, October 2016 Jan Erik Nielsen
GSCN Manager, IEA SHC Task S7 Operating Agent

Status of the "Global Solar Certification Network"

Fees

- Active members: 125 €/year
- Passive members: 75 €/year

Apply for membership

- <http://gscn.solar/members/Become%20member.html>



SKN 21st meeting Crete, October 2016

Jan Erik Nielsen
GSCN Manager, IEA SHC Task 57 Operating Agent



Status of the "Global Solar Certification Network"

Related IEA SHC Task 57:

"Solar Standards and Certification"



- ☐ Subtask A: Support the Kick-off of the operation of Global Solar Certification Network
- ☐ Subtask B : Improvement of test procedures – support and input to ISO
- ☐ Subtask C : Promotion and capacity building with respect to ISO standards and state-of-the-art certification schemes

<http://task57.iea-shc.org/>

Interested in joining this new task on international standardisation and global certification? Please contact me: manager@gscn.solar



SKN 21st meeting Crete, October 2016

Jan Erik Nielsen
GSCN Manager, IEA SHC Task 57 Operating Agent



Status of the "Global Solar Certification Network"



Thank you for your attention

Further information:

www.gscn.solar

Jan Erik Nielsen, e-mail: manager@gscn.solar



SKN 21st meeting Crete, October 2016

Jan Erik Nielsen
GSCN Manager, IEA SHC Task 57 Operating Agent




Annex M - Information from KMO




Solar KEYMARK-Certification

Information from the KEYMARK Management Organisation

Katharina Meyer, 14 November 2016


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Precisely Right.


We create confidence!

Plans for 2016/2017.


- Update of CEN data base
- Development of new KEYMARK schemes
- Development of scope extension in existing KEYMARK schemes
- Marketing activities


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Tasks in 2015/2016.


- Transfer of empowered Certification Bodies
- Questionnaire addressing KEYMARK members
- two KEYMARK „Exchanges of experience“ held in Berlin
 - ▶ SWOT analysis based on results/outcome
- Creation of marketing material and templates for use at creation of new KEYMARK scheme groups
- Assessment and granting of
 - ▶ Empowerment for new KEYMARK CBs
 - ▶ New KEYMARK Scheme Rules
 - ▶ Extension to KEYMARK Scheme Rules
 - ▶ Extensions of KEYMARK empowerment


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What's new.

- KEYMARK information on DIN CERTCO website
www.dincertco.de/keymark_en
- ▶ Link to all empowered certification bodies
- ▶ Information on existing and active Scheme Groups
- ▶ KEYMARK Flyer
- ▶ FAQs
- ▶ News and Events




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New KEYMARK Schemes

Heat Pump KEYMARK

- Active since 2016-01
- Scope includes:
 - ▶ Air/water heatpumps, Water/water heat pumps, Sole/water heat pumps, Direct expansion heat pumps, Exhaust air/water heat pumps
 - ▶ Air/air heatpumps soon to follow
- 4 Certification Bodies and 8 Testing Laboratories provide service
- Number of certificates:
- Website:

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Service of DIN CERTCO.

- Templates for scheme groups:
 - ▶ Scheme Rules
 - ▶ Internal Rules
 - ▶ Website
- Information material and marketing material
- Contact: keymark@dincertco.de



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Further Information at www.dincertco.de/keymark_en

Management KEYMARK

Home - Products and Services - Management KEYMARK

The KEYMARK - The Key to the European Market

Overview The way to the empowerment FAQ Documents

A uniform Product Quality Mark for European Consumers

Europe grows together - even in the product marking. Since January 2002 the consumer can carry out his purchases in one currency in Europe. Now he can be sure as well that products, marked with the KEYMARK, comply with uniform European (EN) Quality Standards.

On recommendation of the European Council to improve the consumer protection and to counteract the uncertainty of consumers by a mark variety, the European Standards Organizations CEN & CENELEC & have developed a harmonised European Mark System for standardized products.

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Finally ...



... thank you very much for your attention!

At your Service:



Dipl.-Biol.
Katharina Meyer, M. Eng.
- Product Manager -
Phone: +49 30 7562-11
Fax: +49 30 7562-1141
Katharina.meyer@dincertco.de

Annex N - Strategy and Management table

Strategy and Management Table Proposals

Jaime Fernández
Chairman of SKN

The following Working Groups were created:

D7. Establishment of WG for Marketing and Communication (A.P.2)

D8. Establishment of WG for study of certification scheme of installers and installations (A.P.3)

D9. Establishment of WG for boosting certification of new Keymark certified products (A.P.4)

D10. Establishment of WG for plan for new Legal Requirements and changes in Market (A.P.6)

The following conclusions were reached:

SCF Project for 2017 Marketing plan

Continue work for another 6 months

SCF Project for systems with solar contribution (see below) + WG for PVT collectors + WG for air collectors

SCF Project for sharing collector and system data + SCF Project for feasibility on increasing scope of quality requirements + SCF Project for feasibility on increasing scope of scale (including systems with solar contribution)

Three proposals:

A WG is formed by SCF SC + interested SKN members to revise the proposed strategy for 2017(SKN_N0293R.1_Strategy and Management table) and present it at SKN March meeting for final approval

The strategy becomes the engine for proposing SCF Projects. Therefore SCF proposals related to strategy get a special status of high priority over the rest of SCF Projects

To adopt an annual cycle for developing and revising strategy

The purpose is to generate a strategy and management table with the conclusions:

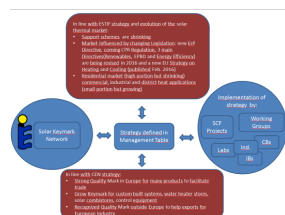
Perspectives	Strategic Map		Dashboard		Action plans							
	Objectives	Indicator	Goal	AP1	AP2	AP3	AP4	AP5	...	APN		
Financial Perspective	Objective F1	IF1	GF1	X	X		X	X		X		
	Objective F2	IF2	GF2		X		X	X		X		
Client Perspective	Objective C1	IC1	GC1	X			X	X		X		
	Objective C2	IC2	GC2				X	X		X		
Internal process perspective	Objective I1	II1	GI1		X			X		X		
	Objective I2	II2	GI2	X								
Learning and growing perspective	Objective L1	IL1	GL1	X				X		X		
	Objective L2	IL2	GL2		X		X					

Description of Action plan	Time frame(short term, medium term, long term)	Importance (Normal, High)	Resources (SCF, WG)	Comments and follow up
AP1:				
AP2:				
AP3:				

At the last SKN meeting this document was presented:

SKN 280. R3 Formulating a strategy for the Solar Keymark and creating a Management Table Purpose and methodology of analysis

To treat the Solar Keymark as if it were a company in order to elaborate a strategy that is line with the strategy of CEN, the strategy of ESTIF and the evolution of the solar thermal industry. To create a tool (management table) that summarizes the work of the SKN in short, medium and long term.



SWOT analysis, 5 forces of Porter, who is the client?, the key activities, the elements of success.

Conclusions: 6 Actions plans to improve the SKN

1. Improve the information system: Develop a system to manage the SKN's information system, including the SKN's database, the SKN's website, and the SKN's internal communication system.
2. Develop Marketing and Communication activities: Develop a marketing and communication plan for the SKN, including the SKN's website, the SKN's social media, and the SKN's internal communication system.
3. Offer a complete integrated certification solution: Develop a complete integrated certification solution for the SKN, including the SKN's website, the SKN's social media, and the SKN's internal communication system.
4. Offer a complete integrated certification solution: Develop a complete integrated certification solution for the SKN, including the SKN's website, the SKN's social media, and the SKN's internal communication system.
5. Offer a complete integrated certification solution: Develop a complete integrated certification solution for the SKN, including the SKN's website, the SKN's social media, and the SKN's internal communication system.
6. Offer a complete integrated certification solution: Develop a complete integrated certification solution for the SKN, including the SKN's website, the SKN's social media, and the SKN's internal communication system.

