

SHC 2014
CONFERENCE OCTOBER 13-15
BEIJING, CHINA

Global Solar Certification



Les Nelson

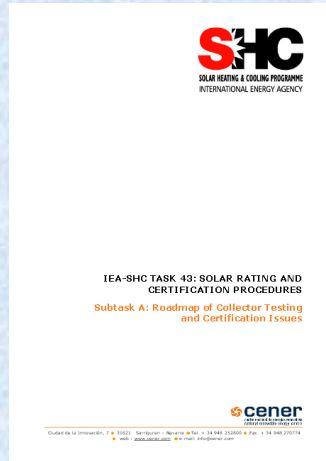
**Vice-Chair, Global Solar Certification Network
International Association of Plumbing and Mechanical Officials**

Solar Certification Today



Task 43 1st Phase – Work Products Accepted in July 2013

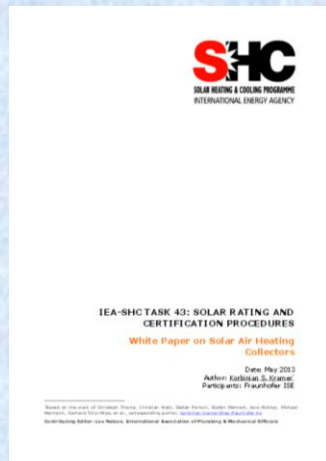
Roadmap of Collector Testing and Certification Issues



White Paper on Low to Medium Temperature Collectors



White Paper on Solar Air Heating Collectors



White Paper on Concentrating Collectors



Task 43 Extension - July 2013 – June 2015

Jan Erik Nielsen, Operating Agent

- **Task A** – Harmonization of Standards for Solar Thermal Products

Task Leader: Ken Guthrie, Sustainable Energy Transformation, Australia

- **Task B** – Harmonization of Collector Certification

Task Leaders: Jaime Fernandez – AENOR, Spain, Eileen Prado, SRCC, US

- **Task C** – Establishment of Global Collector Certification Network

Task Leader: Harald Drueck, ITW, Germany

Global Solar Certification Network

Mission

To establish and maintain a global certification program for solar thermal products.

- Task 43 Extension approved by IEA-SHC ExCo in Rome, July 2013; drafting of Working Rules begins
- Memorandums of Understanding signed between Keymark and IAPMO, September 2013; Keymark and SRCC, March, 2014
- First Global Solar Certification Network meeting in Gran Canaria, Spain in March, 2014. Working Rules accepted, Board Officers elected
- Second GSCN meeting in Beijing, October 8, 2014



Global Solar Certification Network

Board of Directors

Africa: Hagos Tesfay (Industry) – 5 vacant

Asia: Xiaowen Zhou (Ind), Qingtai Jiao (Ind), James Huang (Testing Lab), He Tao (TL), Lin Jiali (Certification Body), Xiaochao Tong (CB)

Europe: Peter Markart (Ind), Sören Scholz (CB) , Jaime Fernandez (CB), Harald Drück (TL), Korbinian Kramer (TL) – 1 vacant

North America: Les Nelson (CB), Eileen Prado (CB), Alfred Brunger (TL) – 3 vacant

Oceania: Jeremy Osborne (Ind) – 5 vacant

South America: 6 vacant

Officers: Harald Drucek, Chairman; Les Nelson, Vice Chair; Eileen Prado, Treasurer; Peter Markart, Secretary

Jan Erik Nielsen, GSCN Manager



Global Solar Certification Network

Working Rules

- 1. Role and Function of GSCN**
- 2. GSCN Membership**
- 3. Board of Directors and GSCN Infrastructure**
- 4. Meeting Guidelines**
- 5. Voting and Voting Rights**
- 6. Confidentiality**
- 7. Financing the GSCN**



Global Solar Certification Network

GSCN Operational Overview

1. GSCN signs agreement with accredited Certification Body
2. Certification Body identifies its recognized Testing Laboratories and product compliance Inspection Bodies
3. Certification Body signs agreement(s) with other GSCN Certification Bodies agreeing to recognize each other's mutually accepted Testing Laboratory and Inspection Body reports
4. Manufacturers may become certified to regional “marks” (e.g. Keymark and IAPMO) using existing TL and IB reports without duplicative tests or inspections (*Note: additional testing may be required for compliance with some certification scheme rules*)



Certification Bodies

1. Accredited to *ISO 17065 - Conformity assessment -- Requirements for bodies certifying products, processes and services* according to ILAC Mutual Recognition Arrangement (or equivalent)
2. Scope of work includes *ISO 9806:2013 - Solar energy -- Solar thermal collectors -- Test methods*
3. Agrees to provide “peer review” documentation to GSCN upon request
4. Agrees to recognize collector test reports used for certification by other GSCN certification body participants (by means of direct agreement between those bodies)
5. Agrees to recognize continuous compliance inspection reports used by other GSCN certification body



Testing Laboratories

1. Accredited to *ISO 17025 - General requirements for the competence of testing and calibration laboratories* according to ILAC Mutual Recognition Arrangement (or equivalent)
2. Scope of work includes testing to *ISO 9806:2013 - Solar energy -- Solar thermal collectors -- Test methods*
3. Agrees to participate in collector testing “round robins” (if any) and make results available to GSCN
4. Testing Laboratory agrees to provide “peer review” documentation (already conducted during normal business operations) to GSCN upon request
5. Becomes Member of the GSCN



Inspection Bodies and Inspectors

1. Accredited to *ISO 17020 - General criteria for the operation of various types of bodies performing inspection* according to ILAC Mutual Recognition Arrangement (or equivalent)
2. Scope of work includes product compliance with *ISO 9806:2013 - Solar energy -- Solar thermal collectors -- Test methods*
3. Agrees to provide “peer review” documentation (already conducted during normal business operations) to GSCN upon request
4. Becomes Member of the GSCN



The Goals

- **No duplicative services (testing and inspection)**
- **Ease of new markets entry for manufacturers**
- **A single certification mark recognized globally**



Solar Certification Tomorrow



Thank you!

www.gsc-nw.org

