Latest developments related to the Global Solar Certification Network (GSCN) and SOLERGY

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The Global Solar Certification Network is a worldwide cooperation between:

- Solar thermal industry representatives
- Certification bodies
- Test laboratories
- Inspection bodies / inspectors
Global Solar Certification Network

Aim

- Facilitate worldwide cross-border trading for manufacturers of solar thermal quality products
- Avoid re-testing of products and re-inspection of production lines when entering new markets

Leading to:

- Increased quality
- Lower costs
- Bigger market - better business 😊
Global Solar Certification Network

Method

- Use *existing* certification schemes and have mutual recognition of test reports and inspection reports
The concept of GSCN:

Reports fulfilling requirements given in GSCN Working Rules and done by test labs and inspectors recognized by GSCN.
Global Solar Certification Network (GSCN)

Current status

- Implemented as an independent, autonomous network (no legal entity)

- Members
  - members: in total approx. 30
    (around 23 formal members and 6 supporters)
  - Applicants: 6

- Membership fees
  Certification Bodies: 200 €
  Inspection Bodies and Inspectors: 200 €
  Test Labs: 200 €
  Industry (manufacturers, distributors): 250 €
  Passive Network Supporting Members: 75 €
How the GSCN works

- 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

- Basic standard is newest ISO 9806 on solar collector test procedures
Global Solar Certification Network

History

- Elaborated within IEA SHC Task 43
- Further developed within IEA SHC Task 57
  Solar Standards and Certification, 1/2016 – 12/2018

GSCN alliance with Solar Heating Initiative in 2021

→ Unite for solar heat !!

Aim: Common implementation of SOLERGY label for collectors

- Joint marketing and communication activities with the Solar Heating Initiative
Created and launched the collector label SOLERGY in Germany in 2016.

Gathers the most relevant solar collector certification schemes worldwide.
Labels compared

It looks familiar but is quite innovative: the solar label refers to the energy gain instead of the primary energy consumption.
The SOLERGY Label…

- Shows how much solar collectors can contribute to a CO₂-free heat supply in different locations and at different temperature levels.
- Takes existing collector certification schemes acknowledged by the GSCN as basis.
HIGH QUALITY SOLAR THERMAL COLLECTORS ARE A KEY FACTOR FOR INCREASING THE SHARE OF SOLAR HEAT WORLDWIDE.
Swimming pool collectors
Flat plate collectors
Evacuated tube collectors

PVT collectors
How does **SOLERGY** work?

**SOLERGY label**  
of the collector  
Displays information relevant for marketing purposes

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**SOLERGY registration**  
Collector output data sheet  
(one per collector certificate)  
Information publicly available to increase transparency

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**Valid collector certificate**  
Only certification schemes acknowledged by the GSCN  
Requirement to apply for the SOLERGY label registration
Register-Nr. EL011-7S3118 P

Inhaber: ABORA ENERGY SOCIEDAD LIMITADA
C/ Business Aire 117
50196 La Muela (Zaragoza) Spanien

Produkt: Kollektorrstragsiegel SOLERGY

Typ / Modell: Abora aH2ESK

Prüfgrundlage(n): Zertifizierungsprogramm Kollektorrstragsiegel nach der Richtlinie zur Erstellung DIN Certco für weitere 5 Jahre verlängert. 11.03.21 (Stand: 2016-06)

Konformitätszeichen: Kollektorrstragsiegel

Reg.-Nr.: EL011-7S3118 P

Gültig bis: 2024-07-31

Technische Daten: gilt nur in Verbindung mit dem gültigen Solar KEYMARK Zertifikat mit der Registernummer 011-7S3118 P

Dokument: Info (PDF)

Weitere Informationen
• Alle Zertifikate / Registrierungen von ABORA ENERGY SOCIEDAD LIMITADA

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### Kollektorrstrags-Datenblatt / Collector yield data sheet

<table>
<thead>
<tr>
<th>Ausstellungsort / Date of issue</th>
<th>Europe</th>
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<tbody>
<tr>
<td>Kollektorrstragsiegel / Certification scheme</td>
<td>Abora aH2ESK</td>
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<td>Registernummer, Nr. / Registration No.</td>
<td>011-7S3118 P</td>
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<tr>
<td>Typ / Type</td>
<td>PVT</td>
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<tr>
<td>Nennleistung / Nominal power</td>
<td>1,36 kW</td>
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<tr>
<td>Ausrichtung / Orientation</td>
<td>Süd</td>
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</table>

<table>
<thead>
<tr>
<th>Wärme / Heat</th>
<th>Stockholm</th>
<th>Würzburg</th>
<th>Athen</th>
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</thead>
<tbody>
<tr>
<td>kWh/m²</td>
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<td>1180</td>
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<td>kWh/m²</td>
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<td>606</td>
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<table>
<thead>
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<td>kWh/m²</td>
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<th>Athen</th>
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<tbody>
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<td>kWh/m²</td>
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<td>kWh/m²</td>
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</table>

Eigenschaften / Characteristics

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<th>Wärme / Heat</th>
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<tr>
<td>Abhängigkeit / Dependency</td>
<td>16%</td>
<td>16%</td>
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<tr>
<td>Effizienz / Efficiency</td>
<td>15%</td>
<td>15%</td>
</tr>
</tbody>
</table>

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DIN CERTCO ● Alteodraße 56 ● 12103 Berlin
Tel: +49 30 7562-1131 ● Fax: +49 30 7562-1141 ● E-Mail: info@dincertco.de ● www.dincertco.de

www.iea-shc.org
SOLERGY label - Status

Europe
In the market since 2016

- Collector certification scheme: **Solar KEYMARK**
- Certification body: **DIN CERTCO**

Facts:
- **24 companies** have applied for the label
- **53 registrations** have been processed
- **170 labels** have been issued

North and Central America
To be launched in 2023

- Collector certification scheme: **SRCC**
- Certification body: **SRCC**

Asia and Oceania
Coming soon
Who can apply for SOLERGY?

Manufacturers with own brand
Collector manufacturing companies that sell the collectors with their own brand.

OEM manufacturers
Collector manufacturing companies that don’t sell with their own brand to end-costumer market but sell the collectors to third companies only (B2B).

OEM customers
Companies that don’t have an in-house collector production, buy from OEM manufacturers and sell the collectors with their own brand.

Requirements:
• Valid collector certificate Solar KEYMARK, SRCC, etc.
• Collector test report (e.g. ISO 9806) and data sheet
• GSCN Membership
Follow us in social media and learn more...

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@HeatChangers
@matters_mx

Facebook/Instagram:
@SolergyLabel
@HeatChangers
@matters.mx

LinkedIn:
@Heat-Changers
@Marisol Oropeza
Participate in the GSCN!

Industry
Industry members can utilize the concept of "Global Solar Certification" in order to avoid re-testing and re-inspection in different certification regions. Industry members can save significant amounts of money and time this way. Furthermore they can get the SOLERGY collector label in a very convenient way.

Certification bodies
Certification bodies participating in the Global Solar Certification Network will attract large international customers.

Test labs
Test labs participating in the Global Solar Certification Network will attract large international customers and benefit from international experience exchange.

Inspectors / inspection bodies
Inspectors / inspection bodies participating in the Global Solar Certification Network have access to international customers.

Next GSCN-meeting: Oct 25th, 2023 at Athens, Greece
Thank you for your attention

www.iea-shc.org

http://gscn.solar/

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