

# Solar Keymark



The certification scheme

Zagreb, 23 April 2009

Pedro Dias- ESTIF Operations Manager



## Why a Solar Keymark

### ➤ In the 1990s

- financial support programs in various countries
- European market grew from 250.000 kWth to over 800.000 kWth per year
- Many companies started exporting their products

### ➤ BUT

- Different requirements in every incentive programmes became an obstacle to market entry



## Why a Solar Keymark

- Before 2003: If you wanted to sell one collector to different countries in Europe, you had to undergo several different tests and gain additional certificates and approvals.

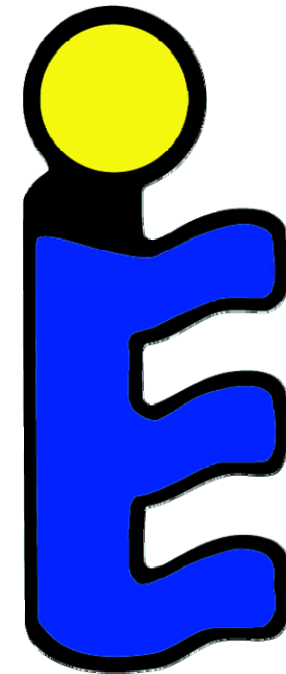
= very complicated, expensive and cumbersome

- In 2003 the European Solar Thermal Industry and major testing institutes formulated the Solar Keymark Scheme rules



## Why a Solar Keymark

- To certify conformity with EN standards
  - EN 12975 for collectors
  - EN 12976 for factory made systems
- To reduce the wild growth of testing requirements, establishment of certificates in order to reduce the trade barriers and open the European market for solar thermal products



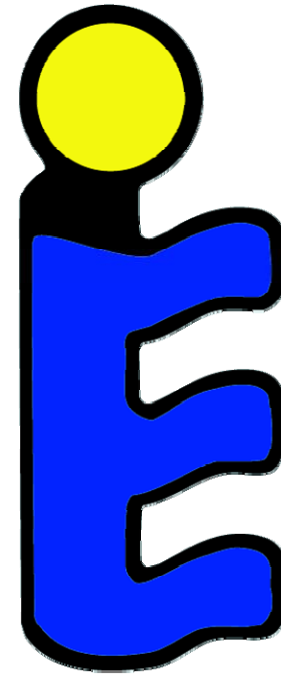
# What is the Solar Keymark

➤ Up to date information is available at

[www.solarkeymark.org](http://www.solarkeymark.org)

Part of the work was financed by the European Commission, under the Intelligent Energy Europe programme

**Intelligent Energy**  **Europe**



# What is the Solar Keymark

➤ The Keymark is the pan-European voluntary third-party certification mark, demonstrating to users and consumers that a product is in conformity with the relevant European Standard.



European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

➤ The Keymark should not be confused with CE marking.



.. the key to the  
European market !!!



European  
Solar  
Thermal  
Industry  
Federation

# What is the Solar Keymark

- CEN/CENELEC European Mark Scheme, called also a KEYMARK Scheme specially for
  - Solar thermal collectors (EN12975)
  - Factory made solar thermal systems (EN12976)



## How does the Solar Keymark work

### ➤ 4 Key requirements:

- Initial type test at an accredited test lab
- Sample selected by inspector out of production or stock
- Factory production control system (similar to ISO 9000 series)
- Physical inspection of current product after 2 years





# How does the Solar Keymark work

## Current standards

### ➤ Collectors – EN 12975:

- Durability, reliability, safety, performance of liquid heating collectors, glazed & unglazed, “low” temperature
- Not included: tracking concentrating collector, acc. ageing, air collectors



# How does the Solar Keymark work

## Current standards

### ➤ Factory made systems – EN 12976:

- Durability, reliability, safety, performance of “kits”
- Not included: combisystems, air systems, cooling



# Who has the Solar Keymark

- strong increase of certified products
- over 500 products already
- all national subsidy schemes and regulations in EU accept Solar KEYMARK
- only exceptions:
  - Spain: ISO 9001 certificate
  - Germany: „Blue Angel“ declaration (525 kWh/a)
  - France: some insurance companies ask for CSTBat)



# Who has the Solar Keymark

Solar Keymark Database				
Systems				
2009-03-19				J.E.Nielsen
<i>Red fields indicate that data are not available yet</i>				
Name of licensee with <a href="#">link</a> to the web page of licensee (close link with "browser return")	Name of system type	Country of licensee	License no. with <a href="#">link</a> to data sheet	Certification body
<a href="#">AO Sol - Energias Renovaveis, Lda</a>	Kit ao sol 190	PT	<a href="#">PSK-005/2006</a>	CERTIF
<a href="#">AO Sol - Energias Renovaveis, Lda</a>	Kit ao sol 350	PT	<a href="#">PSK-006/2006</a>	CERTIF
<a href="#">Ati di Mariani &amp; c. s. n. c.</a>	Discoterm mod. 135	IT	<a href="#">PSK-004/2007</a>	CERTIF
<a href="#">Ati di Mariani &amp; c. s.n.c.</a>	SUNBUSTER SUN 135	IT	<a href="#">PSK-008/2008</a>	CERTIF
<a href="#">AWB CV-Ketels</a>	HelioSet B 150 (1 Kollektor), HelioSet B (2 Kollektor)	NL	<a href="#">011-7S216 A</a>	DINCERTCO
<a href="#">Bosch Thermotechnik GmbH</a>	F(A)1/TS 150/FKB	DE	<a href="#">011-7S415 A</a>	DINCERTCO
<a href="#">Bosch Thermotechnik GmbH</a>	F(A)1/TS 200/FKB	DE	<a href="#">011-7S416 A</a>	DINCERTCO
<a href="#">Bosch Thermotechnik GmbH</a>	F(A)1/TS 300/FKB	DE	<a href="#">011-7S417 A</a>	DINCERTCO
<a href="#">Bosch Thermotechnik GmbH</a>	Logasol TSS150	DE	<a href="#">011-7S418 A</a>	DINCERTCO
<a href="#">Bosch Thermotechnik GmbH</a>	Logasol TSS200	DE	<a href="#">011-7S419 A</a>	DINCERTCO
<a href="#">Bosch Thermotechnik GmbH</a>	Logasol TSS300	DE	<a href="#">011-7S420 A</a>	DINCERTCO
<a href="#">Edwards Solar Hot Water</a>	LX3052 Titan Series 2	AU	<a href="#">011-7S027 A</a>	DINCERTCO
<a href="#">EKOS s.r.l.</a>	BC-DS 120L (15 tubes)	IT	<a href="#">011-7S686 A</a>	DINCERTCO
<a href="#">EKOS s.r.l.</a>	BC-DS 170L (20 tubes)	IT	<a href="#">011-7S687 A</a>	DINCERTCO
<a href="#">EKOS s.r.l.</a>	BC-DS 200L (24 tubes)	IT	<a href="#">011-7S688 A</a>	DINCERTCO
<a href="#">EKOS s.r.l.</a>	BC-DS 250L (30 tubes)	IT	<a href="#">011-7S689 A</a>	DINCERTCO
<a href="#">France Chine Développement</a>	CESI-FCD 2001802	FR	<a href="#">011-7S505 A</a>	DINCERTCO
<a href="#">France Chine Développement</a>	CESI-FCD 3003602	FR	<a href="#">011-7S506 A</a>	DINCERTCO
<a href="#">France Chine Développement</a>	CESI-FCD 4005402	FR	<a href="#">011-7S507 A</a>	DINCERTCO
<a href="#">Heliokmi, S.A.</a>	MEGASUN ST - 200	GR	<a href="#">PSK-001/2009</a>	CERTIF



# Why to apply for the Solar Keymark

- Reduced testing for producers
  - one test for all countries
  - freedom of choice with testing centres
  - type testing instead of testing of all possible collectors (different sizes,..)
  
- High quality products on the market
  
- Improved quality
  - through factory inspection the standard of production processes improves
  - gives financing institutions confidence to support high quality



# How to get the Solar Keymark

- apply for Solar Keymark at Certification Body
- factory inspection – quality management system at production site
- ISO 9001 recommended but not strictly required
- sampling of items to be tested out of production or stock
- testing of items in independent laboratory according to EN standards
- Certification Body grants Keymark



geprüft  
von

**arsenal research**

Ein Unternehmen der Austrian Research Centers



European  
Solar  
Thermal  
Industry  
Federation

## ... and then?

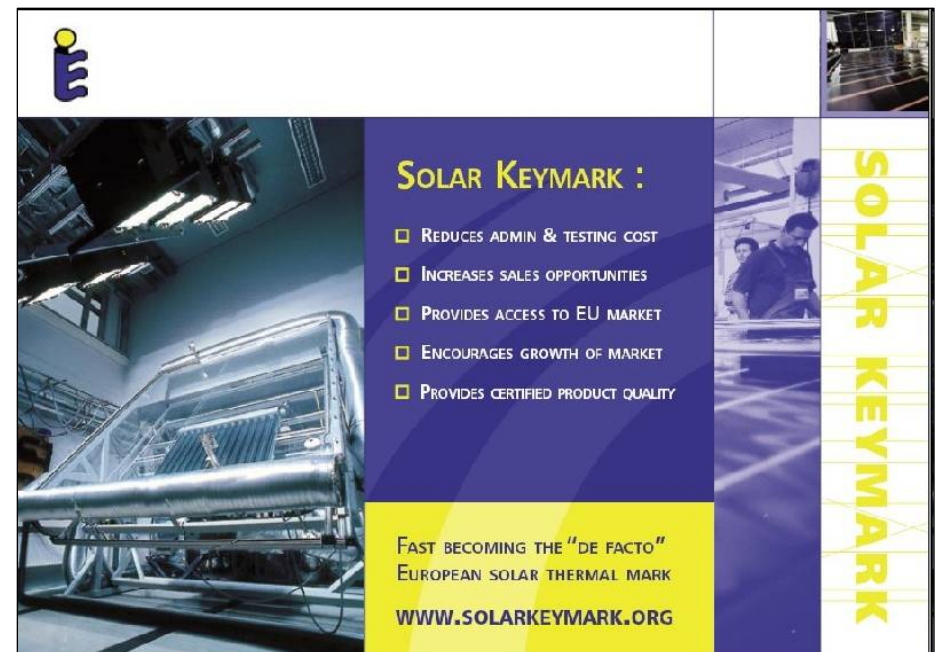
- Start marketing
  - the Solar Keymark states to the buyer:
    - reliable quality
    - reliable performance information
  
- Start exporting
  - The Solar Keymark works almost all over Europe
    - No need for the doing the same tests in the different countries
  
- Get regular inspection of product and factory
- Paying annual certification fee
- Report changes in product



Where to know more...

[www.solarkeymark.org](http://www.solarkeymark.org)

- list of certified products
- list of testing laboratories
- list of certification bodies
- download of brochures in CZ, ES, EN, DE
- detailed country reports



The image shows a brochure for Solar Keymark. It features a blue and yellow color scheme. On the left, there is a photograph of a large industrial solar collector in a factory setting. The text on the brochure includes the Solar Keymark logo (a stylized 'E' with a yellow dot), the title 'SOLAR KEYMARK :', and a list of benefits: 'REDUCES ADMIN & TESTING COST', 'INCREASES SALES OPPORTUNITIES', 'PROVIDES ACCESS TO EU MARKET', 'ENCOURAGES GROWTH OF MARKET', and 'PROVIDES CERTIFIED PRODUCT QUALITY'. Below this list, it states 'FAST BECOMING THE "DE FACTO" EUROPEAN SOLAR THERMAL MARK' and provides the website 'WWW.SOLARKEYMARK.ORG'. On the right side, there is a vertical banner with the text 'SOLAR KEYMARK' and a small photograph of people working in a laboratory.

[www.estif.org](http://www.estif.org)





Please do not hesitate to contact me:

➤ European Solar Thermal Industry Federation (ESTIF)  
Renewable Energy House  
Rue d'Arlon 63-67  
B-1040 Brussels

Tel: +32 2 400 10 80

Fax: +32 2 546 19 39

Email: [pedro.dias@estif.org](mailto:pedro.dias@estif.org)

Website: [www.estif.org](http://www.estif.org)

