
Solar Keymark – Solar Thermal Products in EU – Where is R. Macedonia?

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Workshop: Implementing Energy Efficiency through Renewable Energy
Solutions - are Southeast European Countries on track?

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- In the last years solar thermal market is booming. Considerable number of new solar thermal products are entering the market
 - Past: A couple of years ago each European country required the solar products tested at their own national test institutes.
 - Now: Now far most of the (accredited) European test institutes accept test results from each other for certification in connection with national and regional regulation and subsidy schemes.
 - Future: Once tested and certified the product automatically fulfils all national and regional requirements in regulation and subsidy schemes.

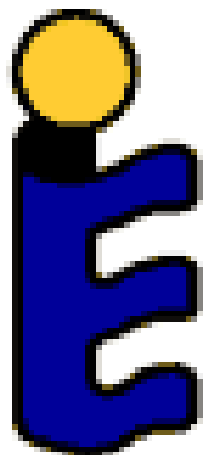
THE CEN/CENELEC KEYMARK

- The CEN/CENELEC European Mark - The Keymark - developed by the European Committee for Standardisation (CEN).

The basic elements in the certification scheme are:

- Initial type testing of products according to the EN standards
- Factory production control (at ISO 9000 level)
- Inspection and surveillance tests

SOLAR KEYMARK



- Keymark available for solar thermal products - “Solar Keymark”
- EN 12975. Thermal solar systems and components - Solar collectors
- EN 12976. Thermal solar systems and components - Factory made systems

HOW TO GET A SOLAR KEYMARK LICENSE?

- Certification body (CERTIF, DINCERTCO, SP,...)
- Factory Production Control
- Test laboratories (CSTB, INETI, ISE, ITW, SPF,...)
- Independent inspectors

WHY SOLAR KEYMARK IS NEEDED?

7 reasons why Solar Keymark is needed:

- reduced testing and administration costs,
- certified product & manufacturing system,
- enhanced customer confidence,
- improved opportunities to increase turnover,
- improved image for company why have Solar Keymark,
- improved image of solar thermal industry, passport to European solar thermal markets

QAiST

QAiST project (Quality Assurance in Solar Heating and Cooling Technology)

QAiST

- running from June 2009 until May 2012

Objective:

- promoting good, operational and widely accepted European quality assurance standards for solar thermal products, as this is a key element to the development of a large and open European solar thermal market, the long term objective being the preparation of a quality assurance framework to help meet the 2020 targets.

QAiST

Benefits:

- Extending the scope of EN 12975 to fully cover also medium temperature collectors (tracking, concentrating collectors, evacuated tube collectors)
- Clarification of durability and reliability requirements and test methods in EN 12975
- Extrapolation procedure for performance calculation of factory made systems
- Clarification of reliability tests in EN 12976
- Continuing the quality assurance of testing laboratories
- Developing a harmonised approach on Function & Yield Control for large solar thermal systems
- Reducing testing costs for solar domestic hot water systems being part of a common “system family”
- Promoting the Solar Keymark in CEE countries
- Raising interest in further development of EN standards and Solar Keymark by the “established” Solar Thermal industry

In R. Macedonia

Solar Test Center in Skopje

laboratory for testing quality of solar collectors according ISO 9459, ISO 9806, EN 12975 and EN 12976 standards.

Established 2008.

February 2010 – part of QAIiST project

Contributions in QAIiST

- participation in a minimum of 4 Solar Keymark Network
- at the second meeting, presentation of an initial country report on the current situation regarding quality assurance measures for solar thermal products
- presentation of an action plan on how the Solar Keymark certification (or other country specific quality assurance methods) will be set up.
- organisation of two “Solar thermal Quality Workshops” to inform manufacturers, designers, installers and representatives from government bodies about the European solar thermal standards as well as on the Solar Keymark certification
- submission of a report on progress regarding quality assurance measures for solar thermal products within the duration of the QAIiST project.



Thank you for your attention