



SOLAR RATING
& CERTIFICATION
CORPORATION™

Solar Water Heating Forum

June, 2015 - San Jose, Costa Rica

US & Global SWH Certification Programs

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Who is SRCC?

- Non-profit organization certifying solar thermal systems and components.
- Provides Certifications provide standardized performance rating for specific climates
 - Used by rebate and incentive programs nationwide
 - Referenced in EPA ENERGY STAR specification and IRS tax code
- Develops standards referenced in model and state codes
- Staff of internationally recognized solar experts



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SWH in the USA

- 1970's Oil embargo increased interest renewable energy
- Several states setup testing & rating programs to:
 - Ensure quality and protect the industry's reputation
 - Provide consumers with a way to compare equipment
 - Provide utilities and state programs reliable ratings for incentives and rebates





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Role of the SRCC

- Provide authoritative performance ratings for solar thermal collectors and systems
- Develop consensus standards with industry expertise and wide participant involvement
- Certify solar thermal collectors and system designs to minimum standards
- Expert recommendations and advice to government programs and other incentive entities
- Guidance and protection for consumers and other stakeholders



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Ratings & Certifications Process

- OG-100 Collector Certification
 - Standardized tests by an SRCC-approved lab based on standardized load, weather and sunlight profiles
- OG-300 System Certification
 - Validating components such as storage vessel(s), controls, OG-100 collectors, and balance of system, such as pumps, piping, etc.
 - Stringent review of system design ensuring standards are met
- ENERGY STAR® System Certification





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Today's Needs

- Several independently-accredited test labs around the world
- New testing protocols – ISO 9806
- Web-based application & tracking
- The Industry Standard since 1980
 - Accredited Collector and System Standards
 - Pool System Standard in Development
- Independent Third Party Certifications
 - ISO 17065 Accredited
 - Approved by ENERGY STAR, Federal Tax Credit, State and Utility Incentive Programs
 - Cited in Residential Building Codes



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> HOME

> ABOUT US

> CERTIFICATION INFO

> STANDARDS

> STANDARDS DEVELOPMENT

> GUIDELINES & POLICIES

> RATINGS

> APPLY FOR CERTIFICATION

> OTHER SERVICES

> RESOURCES

> SOLAR FACTS

> COMMERCIAL SYSTEMS

> TEST LABS

> PARTICIPANT NEWS

> CONTACT US



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Certification Marks



- National and international recognition of the SRCC seals
- Required by many state and local programs



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Codes





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Global Solar Certification Network

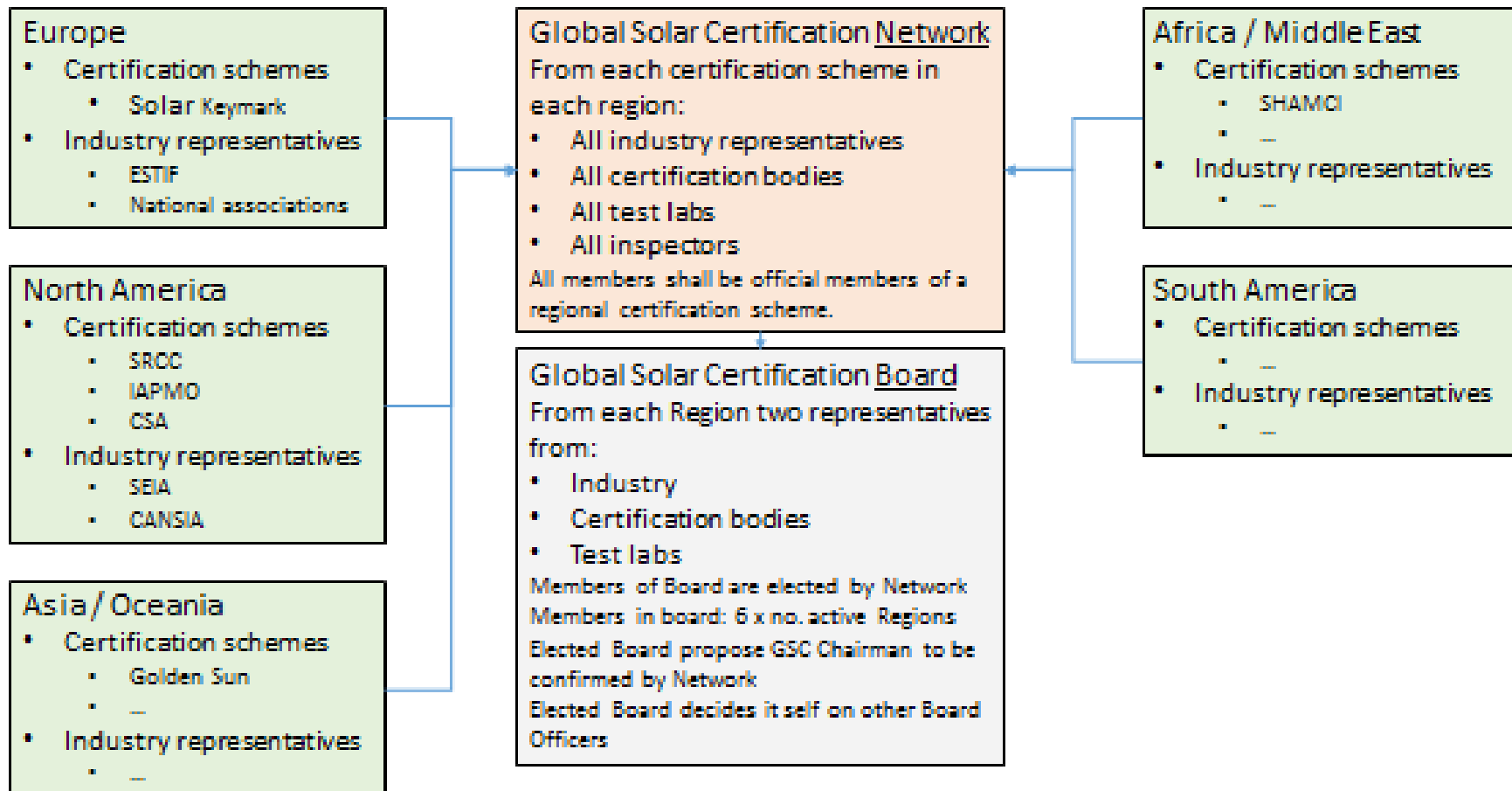




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Global Solar Certification Network

Members in Network and Board

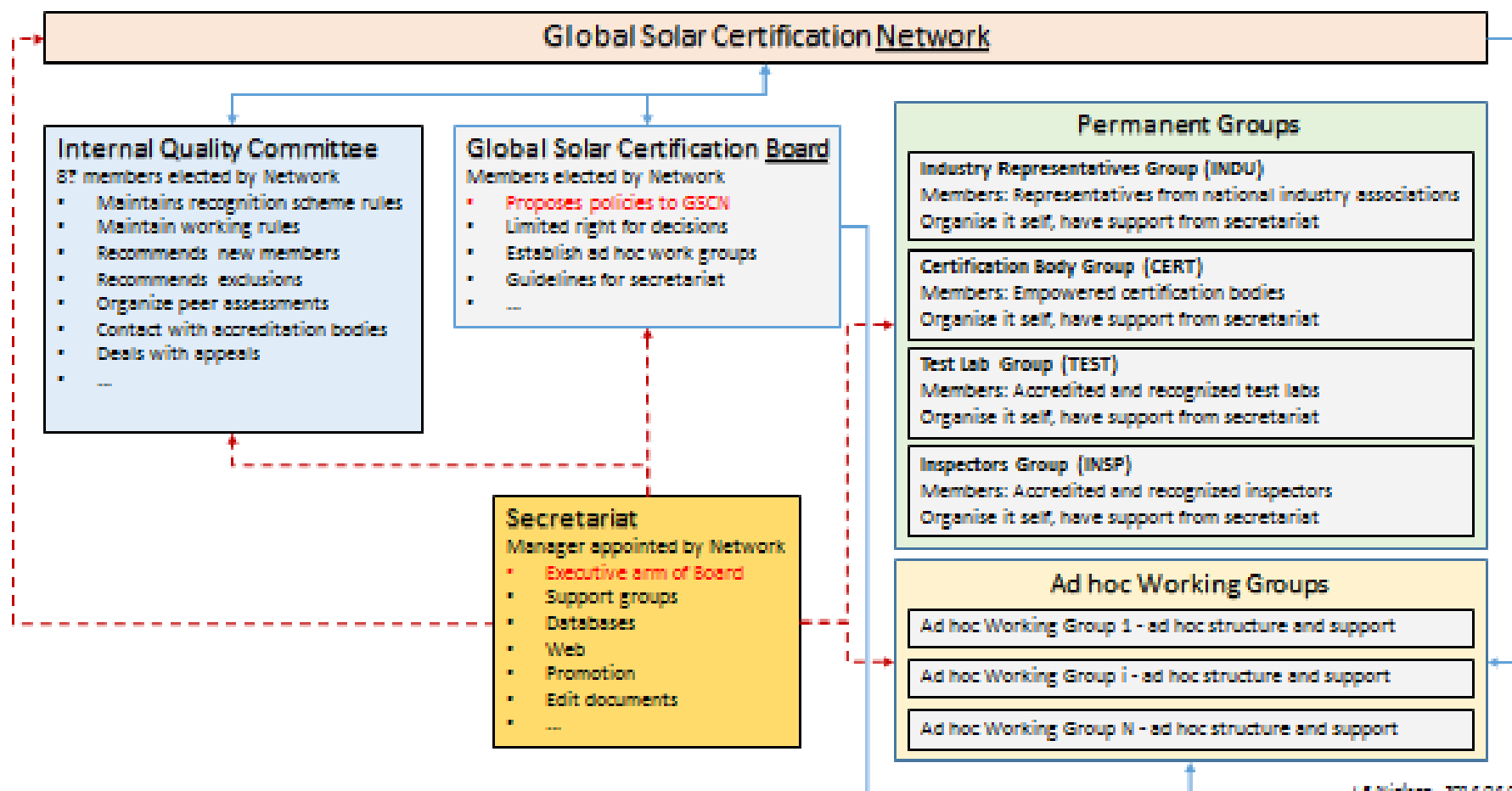




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Global Solar Certification Network

Structure of Network

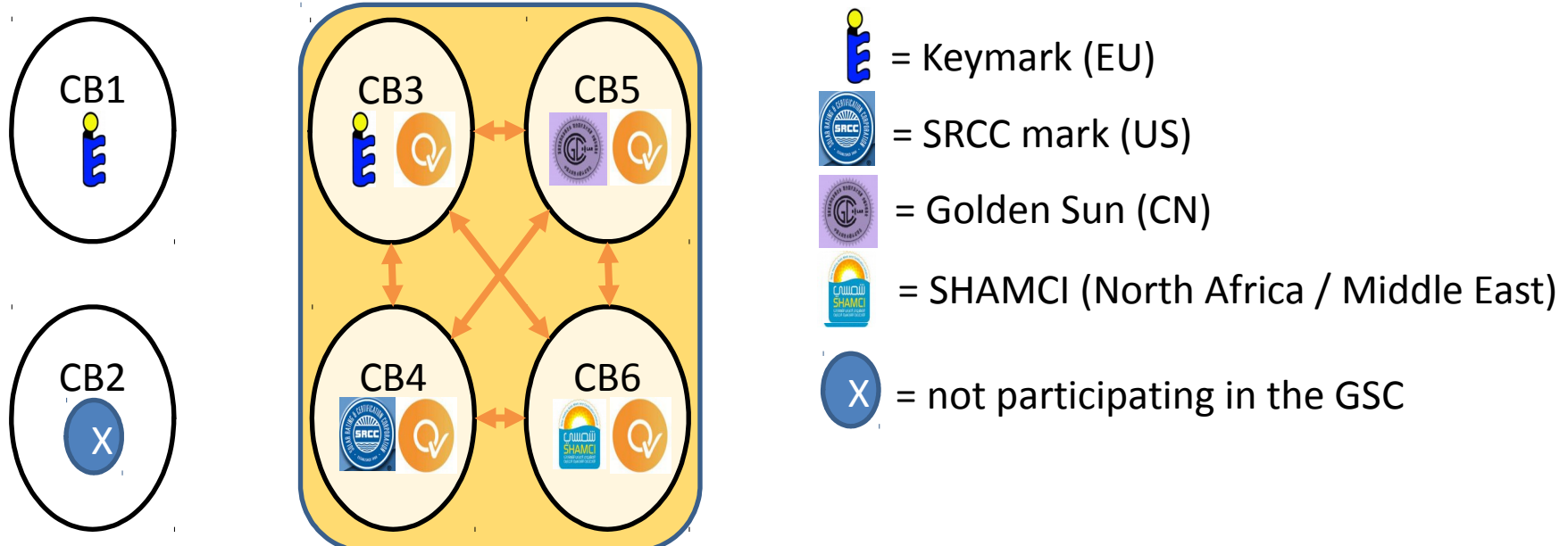




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Global Solar Certification Concept

CB = Certification Body



Global Solar Certification makes it possible for manufacturers to utilize existing local certification to obtain certification around the world without re-testing and re-inspection.

If a manufacturer obtains the Global Mark at e.g. CB3, he will have easy access to other Local Marks via CB4, CB5 and CB6.



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Benefits of the Global Effort

Global Solar Certification - from Industry Point of View

First certification (participating scheme):

- Initial inspection and sampling
- Testing
- Annual inspection
- Certification



Next certification (other participating scheme):

- No further inspections
- No re-testing (supplementary tests may apply)
- New certificate (fee)



Global Solar Certification makes it possible for manufacturers to utilize existing local certification when obtain other local certification