

Europa mirando el cumplimiento del CTE

El papel clave del CTE en la [r]evolución
energética europea

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European
Solar
Thermal
Industry
Federation

New EU Renewables Directive

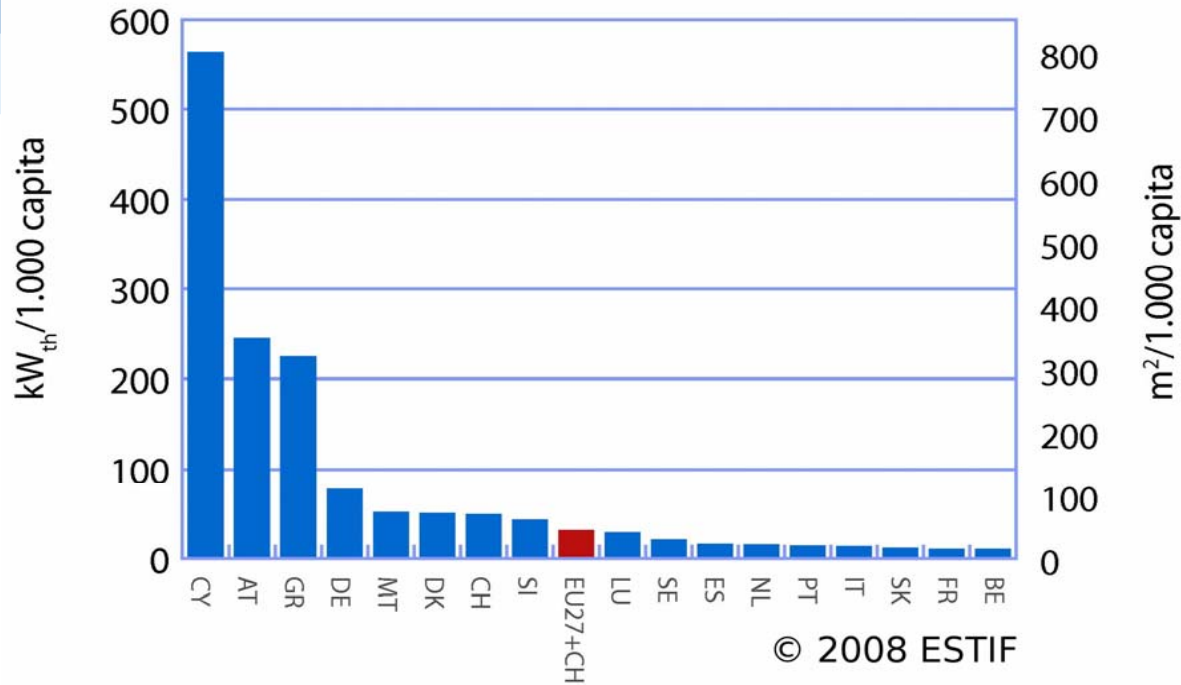
- 20% renewables share by 2020
- New field: «renewable heating & cooling»
- Member States requested to introduce an obligation to use renewables in new buildings and those undergoing major renovation

- **Clearly inspired by the Spanish CTE**



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Solar thermal capacity in operation per 1.000 capita in 2007



Austria leading in continental Europe...

And Israel is above Cyprus

30 years of solar obligation in Israel

- ST became an obvious part of buildings
- The law made itself superfluous: 90% of the market is voluntary (more than obliged)
- **ST: 3% of primary energy consumption**
- Obligation applied mainly for hot water in residential buildings (there is much more potential)



Spain's CTE as a trend-setter

- Portugal
- Germany (federal and regional)
- Italy (national and local)
- Ireland, UK, Belgium ... (local / regional)
- Brasil, Tokyo Metropolitan Area, South Africa ...



Why a solar obligation?

- Energy = emergency: we need a [r]evolution
- The long term begins today: long life of buildings
- Best thing is to include ST at planning stage
- Tenant-Owner dilemma (owners have no interest to invest in energy savings for their tenants)
- Positive effects on the voluntary market
- **Economies of scale through critical mass**



And the teething problems?

Risk: quality problems leading to a backlash

Solutions:

- Enforcement (ensuring it is implemented)
- Quality assurance (ensuring the quality is good)
- Motivating all players involved
- Key role of the Spanish experience



Quality assurance measures

- Technical specifications for products (EU standards and certification !)
- Specification for installation (warranty, info to the user etc.)
- Training and certification of installers and architects
- **Random third party controls of the quality of installations**
- Name and shame for constructors / installers ?



Flanking measures

- Information & motivation of all players
- Training and certification for installers and architects
- Well designed, stable financial incentives for systems that go beyond the obligation
- R&D for new applications





“will we look into the eyes
of our children and confess
that we had the **opportunity**,
but lacked the **courage**?
that we had the **technology**,
but lacked the **vision**?”

Energy [r]evolution: A sustainable global energy outlook
EREC / Greenpeace 2009



Thank you for your attention!

www.estif.org

