



## Incentive schemes for solar thermal and renewable heat in Europe:

an overview of the different types of support programmes available in different European countries

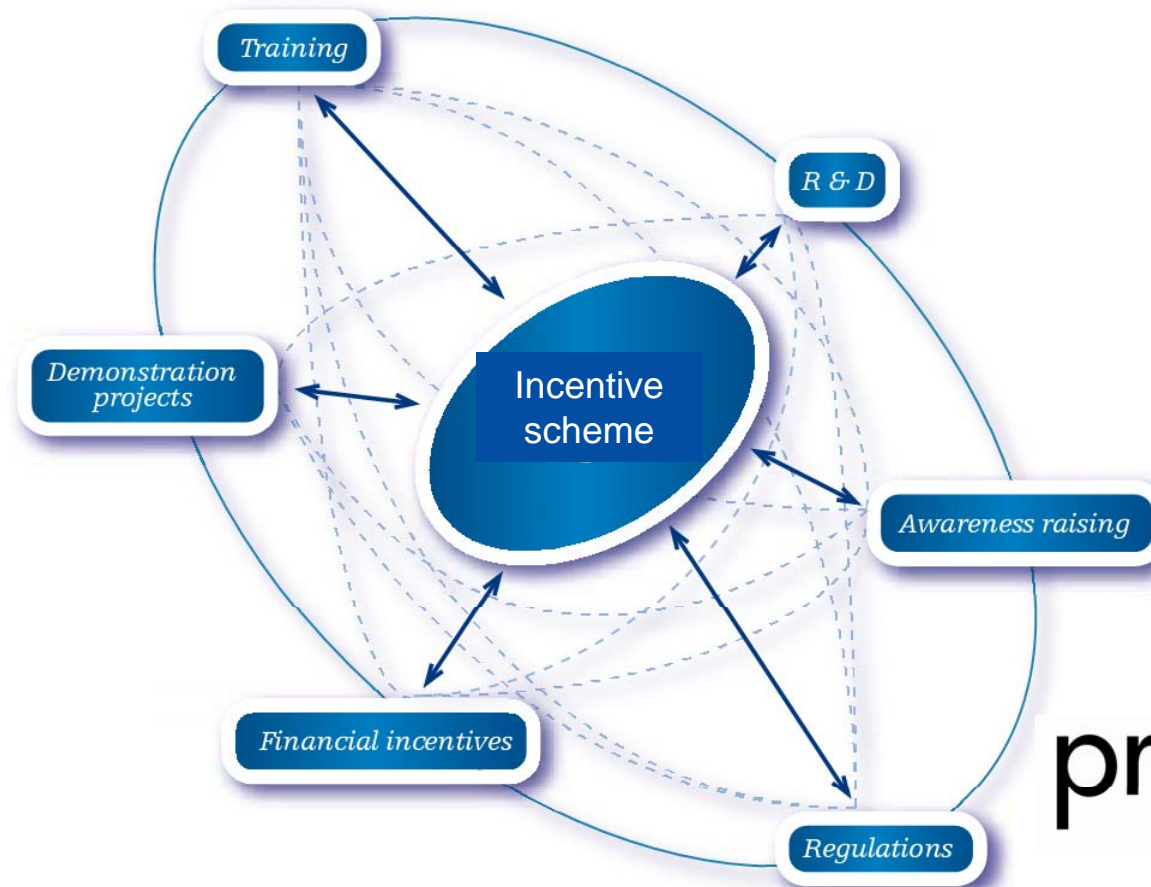
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# Incentive are about creating the right framework conditions



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## Financial and non financial incentives

- **Financial incentives**: *Any public policy giving a financial advantage to those who install a solar thermal system or who make use solar thermal energy*
  - *Direct grants, tax reductions, reduced or zero interest rate loan, green certificates*
- **Non Financial Incentives**: Any public policies aimed at increasing the use of solar thermal except those above mentioned

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# Incentive scheme in the Renewable Energy Sources directive (2009/28/EC)

- The recitals from a directive highlight important points that the text is trying to address
- Mandatory questions in the template:
  - *All measures to achieve targets,*
  - *Promotion of use of renewables,*
  - *Integration of renewables in buildings,*
  - *Certification of installers,*
  - *District heating,*
  - *Support schemes for renewable heat*
- Follow up: evaluation → action

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## Non financial incentives are crucial!

- Promotion and information
- R&D and demonstration projects
- Training and certification
- Standards and quality
- Building regulations and solar ordinances

*They provide the required basis for a sustainable development!*

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## Promotion and information

- Large scale advertising like in Austria
  - [http://www.youtube.com/watch?v=Vr-NAGH7D8I&feature=player\\_embedded](http://www.youtube.com/watch?v=Vr-NAGH7D8I&feature=player_embedded)
- Targeted information on solar thermal
  - Irish system configurator:  
<http://forms.sei.ie/calc/seicalculator.html>
- Targeted campaigns like the European Solar Days
  - <http://www.solardays.eu/>

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## R&D and demonstration projects

- Technology platforms
  - Europe: [www.rhc-platform.org](http://www.rhc-platform.org)
  - Austria: [http://www.asttp.at/index\\_1280.htm](http://www.asttp.at/index_1280.htm)
  - Germany: DSTTP:  
<http://www.solarthermietechnologie.de/dsttp/>
- Demonstration projects
  - <http://www.solarmarstal.dk/SUNSTOR>

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## Training and certification

- Qualisol – A Quality Scheme for Installers  
[www.qualit-enr.org](http://www.qualit-enr.org)
- Qualicert: This project aims at providing to the EU Member States input for accreditation & certification schemes for installers of small-scale renewable energy installations.  
<http://www.qualicert-project.eu/>



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## Standards and quality

- List of products and technologies  
Czech republic incentive financial incentive  
<http://www.zelenausporam.cz/sekce/586/>
- Quality marks: NF-CESI in France
- Solar Keymark: [www.solarkeymark.org](http://www.solarkeymark.org)

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# Building/heating regulations and solar ordinances

- France: The RT 2012 norm aims at limiting the primary energy consumption of new buildings at a maximum of 50 kWhEP/m<sup>2</sup>/year
- Wärmegegesetz in Germany: 15% of heat demand with solar thermal
- Implementation of the European Performance of Buildings Directive (EPBD) in the 27 European countries ([www.buildup.eu](http://www.buildup.eu))

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## Financial incentives a necessary evil?

- Fossil technologies still too cheap
- Difficult to sell long term “pay back”
- Competition with renewable electricity
- Competition with renewable heat
- Emerging markets
- However they provide results...

*They lead to strong market uptake  
BUT have unwanted effects*

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# Financial incentives I

	Direct financial incentives		Tax incentives	
	Investment grants	Feed-in Tariffs	Tax reduction	VAT reduction
-	<ul style="list-style-type: none"> <li>- Effect on prices</li> <li>- Red tape</li> </ul>	<ul style="list-style-type: none"> <li>- Energy output?</li> <li>- Control?</li> </ul>	<ul style="list-style-type: none"> <li>- Indirect effect</li> <li>- Black market</li> </ul>	<ul style="list-style-type: none"> <li>- VAT EU reglementation</li> <li>- Indirect effect</li> </ul>
+	<ul style="list-style-type: none"> <li>- Most common</li> <li>- Very efficient</li> </ul>	<ul style="list-style-type: none"> <li>- Increase of ST share</li> <li>- Long term impact</li> </ul>	<ul style="list-style-type: none"> <li>- No application</li> <li>- “Emersione”</li> </ul>	<ul style="list-style-type: none"> <li>- Little effect on public finances</li> </ul>
Examples	Poland, Czech republic, Slovakia, Ireland	UK in 2011	Italy, France	France



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# Financial incentives II

	Low or zero interest rates loan	White, green certificates
-	<ul style="list-style-type: none"> <li>- Little impact</li> <li>- Processing of requests</li> <li>- Overhead can be high</li> </ul>	<ul style="list-style-type: none"> <li>- General measure</li> <li>- Complexity</li> </ul>
+	<ul style="list-style-type: none"> <li>- Good flanking measure</li> <li>- Relevant also for specific targets (large installations-R&amp;D)</li> </ul>	<ul style="list-style-type: none"> <li>- Long term</li> <li>- Self financed</li> </ul>
Examples	France, Poland, Germany	Sweden, ESD (France)



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Any questions?

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