


Microgeneration - Green Architecture Day 

Howard Johns
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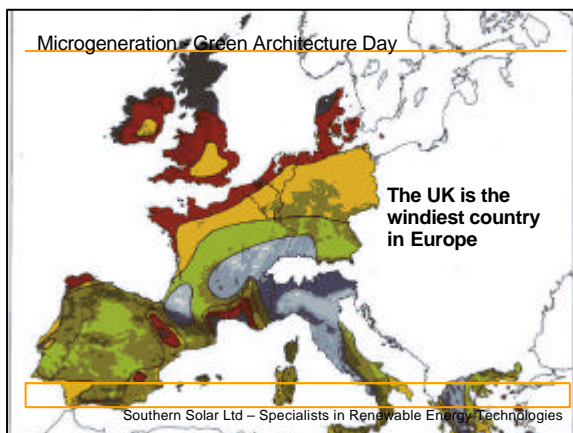
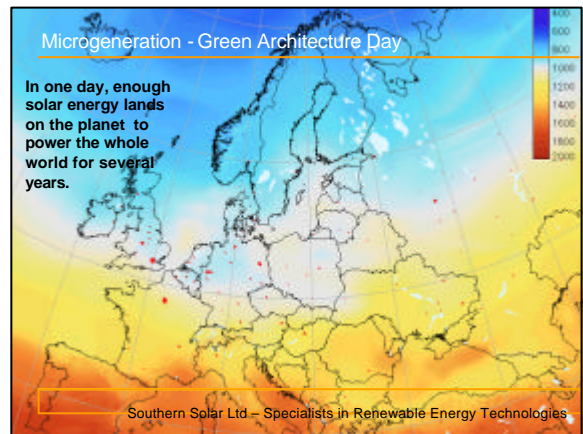
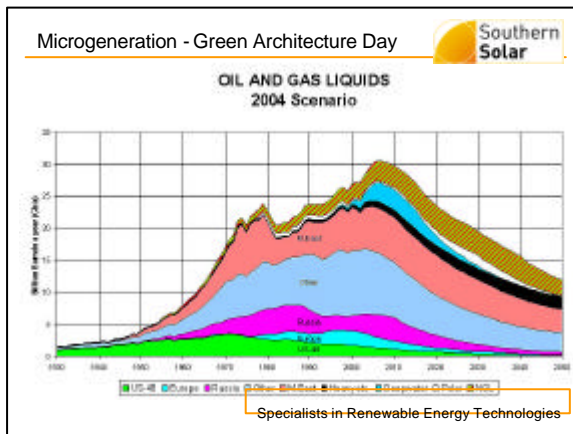

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Conservation

If all 23 million domestic electricity consumers switched one light bulb to an energy efficient one, then we could turn off two nuclear power stations.

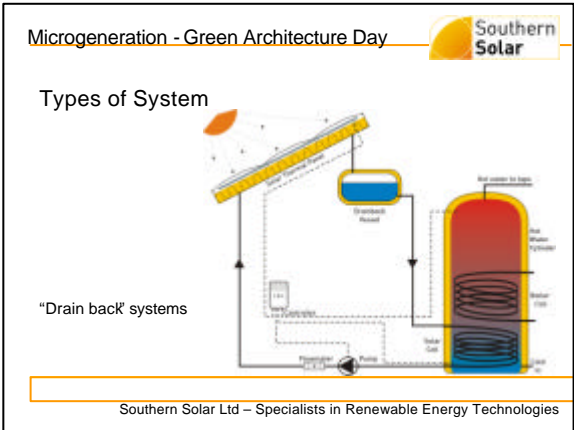
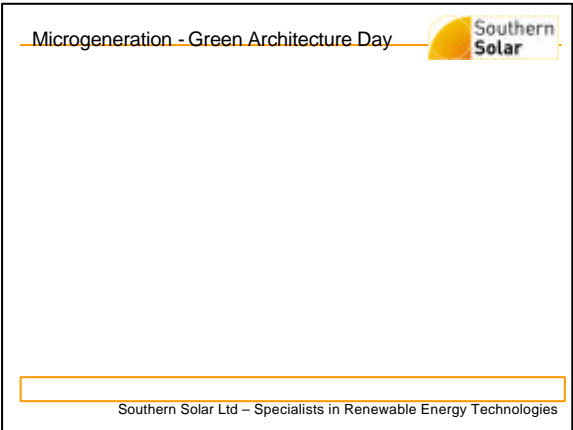
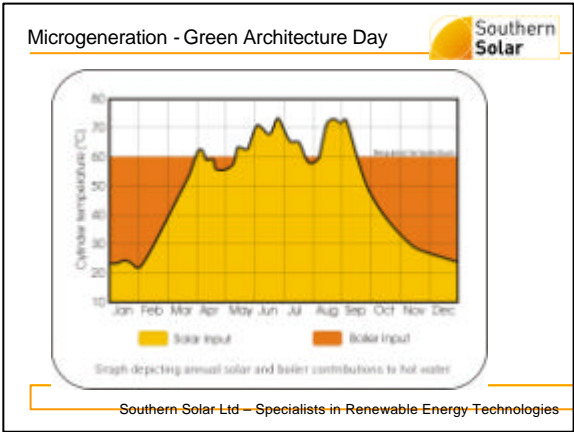
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Microgeneration Technologies - How we capture those resources

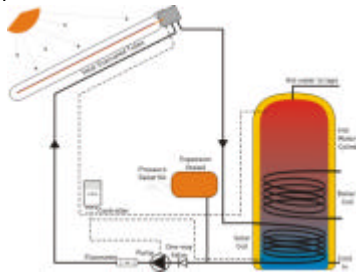
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Types of System

"Pressurised" systems



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Solar Thermal - Development and innovation
District Heating



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Solar Thermal - Development and innovation
Industrial process water heating



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Solar Thermal - Development and innovation
Solar Cooling and Desalination




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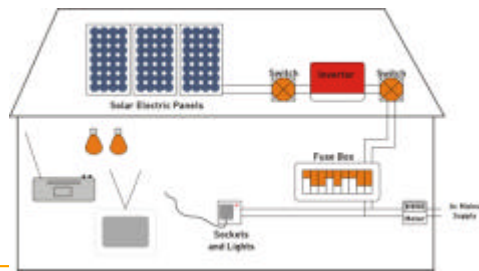
Technologies: Solar Electric




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Technologies: Solar Electric



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Building Integration:




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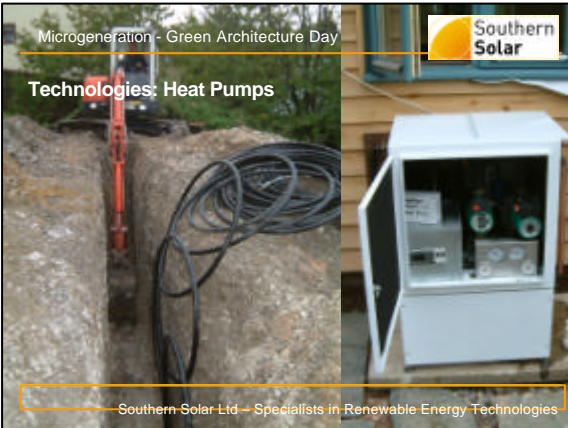
Building Integration:



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Technologies: Heat Pumps



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Renewable heat
Biomass



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Technologies: Biomass



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Technologies: Wind Energy



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"In the last Pre-Budget Report, I announced that within ten years all new homes would have to be zero carbon, and I provided a stamp duty exemption as an incentive to get there. But new homes are only a small percentage of the total. So today I want to extend our ambition to all homes. Over the next decade my aim is that every home for which it is practically possible will become low carbon.

I expect microgeneration - such as solar water heating, micro wind turbines and ground source heat pumps - to take off in this new era. So in the Energy White Paper we will provide new incentives with the aim of raising eightfold the number of households which are producers as well as consumers of energy."

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"Citizen action needs to be backed by government action"

Grant Schemes

- Low Carbon Buildings Program Phase 1 – £28.5 million over 3 years. Householder section £12 million – This month the pot of money ran out in less than 1 hour

- Low Carbon Buildings Program Phase 2 - £50 million in budget – for public buildings

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Planning Policy Statement 22

Government Support

"Local planning authorities and developers should consider the opportunity for incorporating renewable energy projects in all new developments...**Local planning authorities should specifically encourage such schemes through positively expressed policies in local development documents."**

"10% On site generation"

<http://themertonrule.org/>

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Government Support

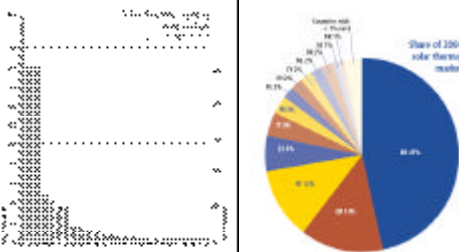
Building Regulations

ODPM mention solar thermal in the new revision of the building regulations Part L 2006. They are looking to include solar thermal in all new houses by 2010.

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Solar Thermal - European perspective



Source – ESTIF Study June 2005

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