

“Renewable Energy potential in local energy planning. A vision from the Mediterranean countries



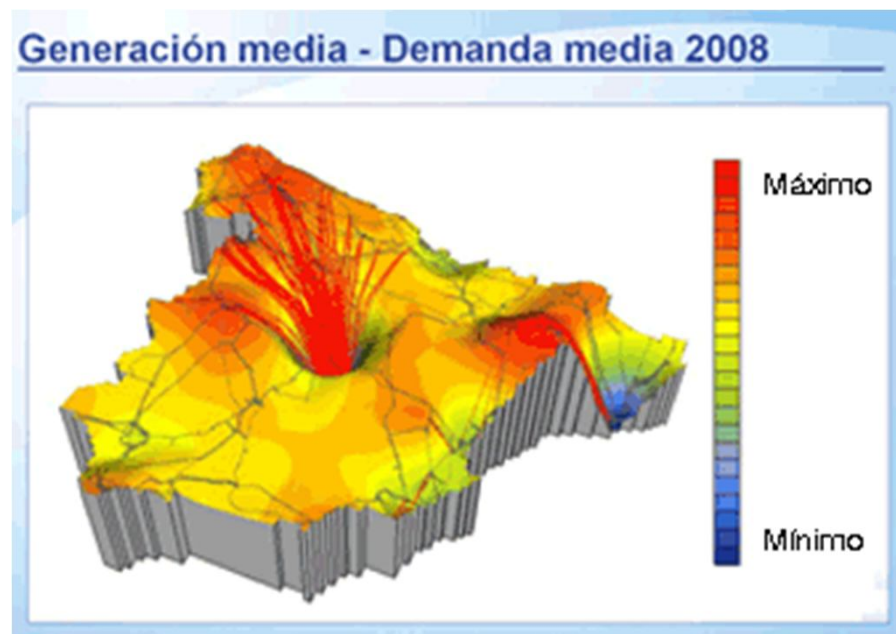
“New Directive - New Energy for Housing? –
Clearing the way for local, participatory energy transition”
Brussels, September 12th 2011



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80% of European Population live in Cities



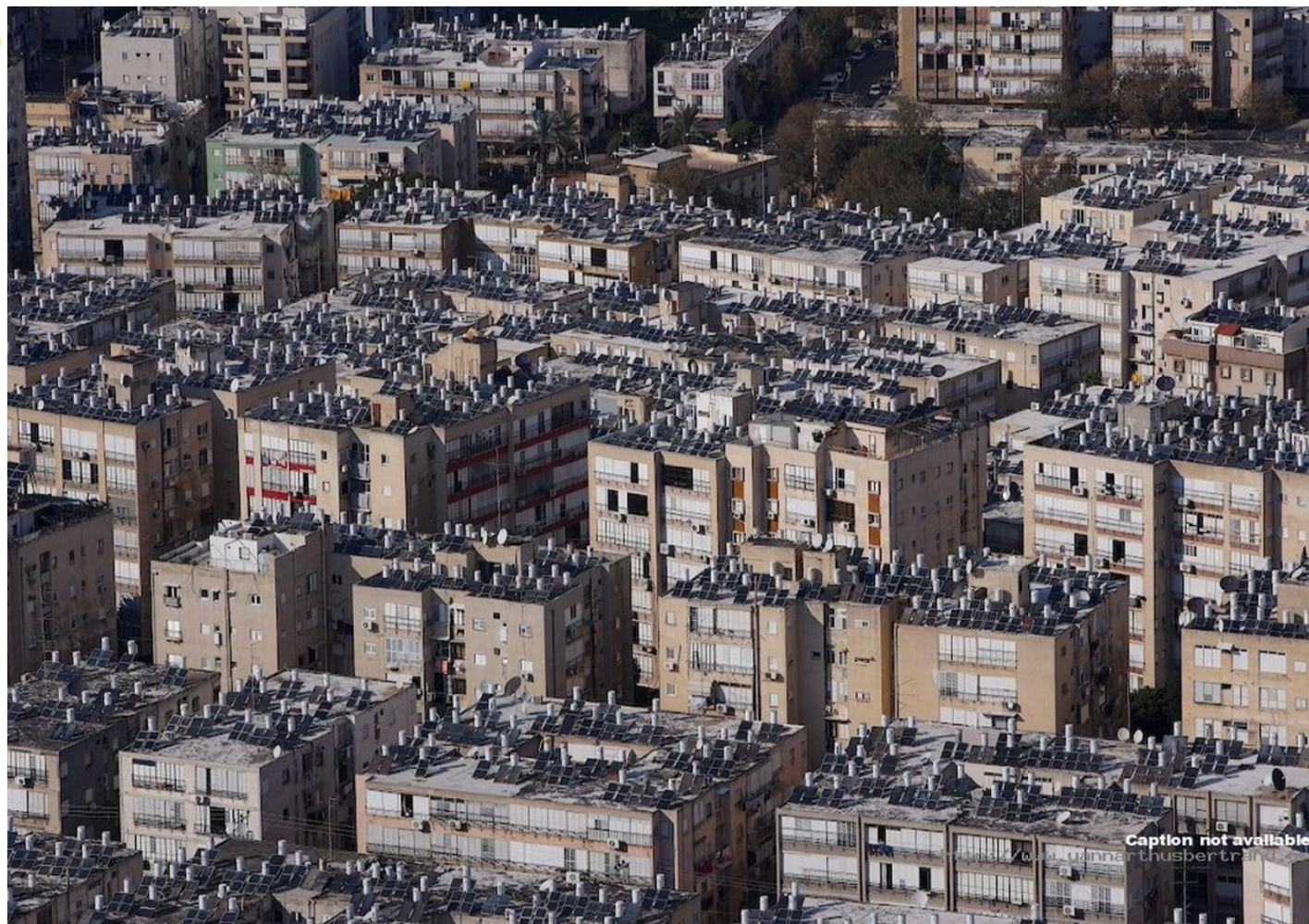
And today **Cities** are real **Energy Drains**

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- Local governments can become the drivers of low carbon energy systems, because they can:
 - Assess renewable energy sources, and energy saving potential, at LOCAL LEVEL, and TO SET CLEAR OBJECTIVES.
 - Create new models for strategic sustainable planning, based in the Energy Efficiency and Renewable Energy local potential in an integral approach, understanding the city as a whole, and taking into account all players.
 - Encourage the deployment of innovative projects which could be replicated and to increase the sense of pride of the inhabitant.
 - Raise awareness of local citizens, influencing in USERS BEHAVIOUR

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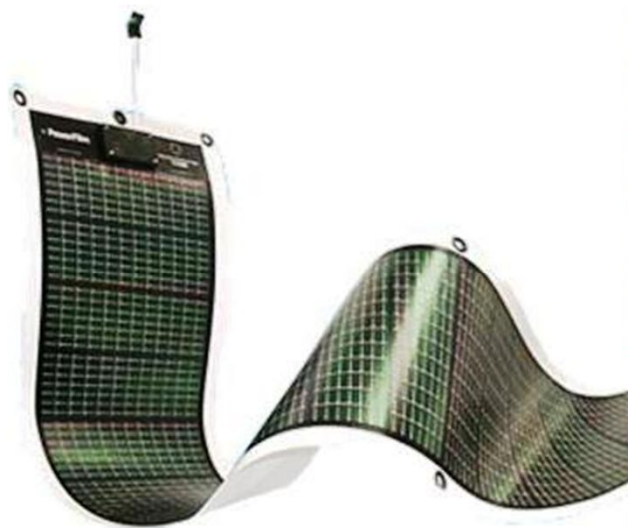
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☼ SOLAR PHOTOVOLTAIC.

- ☼ Mature technology , Easy to integrate in the built environment.
- ☼ Cost-effective in Mediterranean Countries, but...
- ☼ Need to have a feed in tariff to shorten payback time
- ☼ The challenge: improve the global efficiency of the system (around 13%) in smart grids.

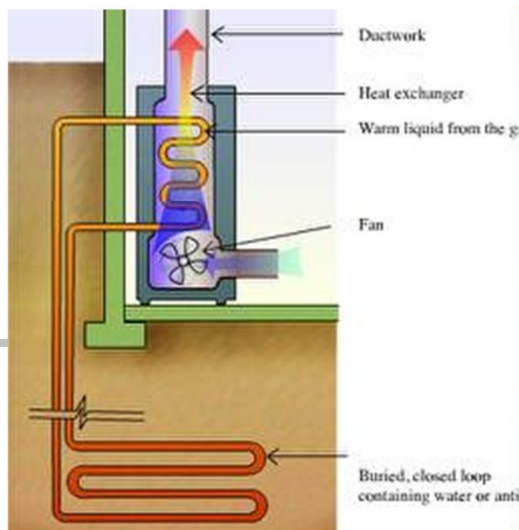
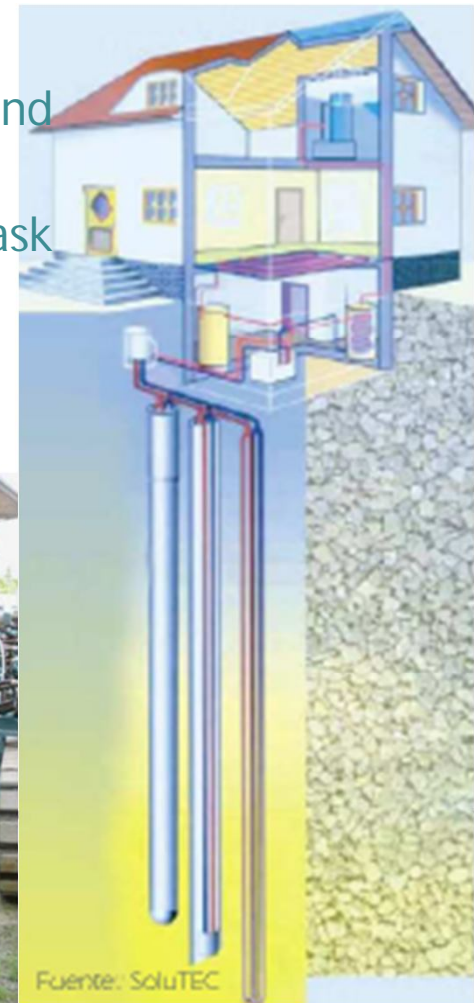


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🌀 GEOTHERMAL ENERGY + HEAT PIPE (Low Entropy).

- 🌀 Good performance when heating and cooling demands are balanced.
- 🌀 Initial investment still high, but low O&M costs and interesting pay back
- 🌀 A threat: still a lack of knowledge and experience in the task force

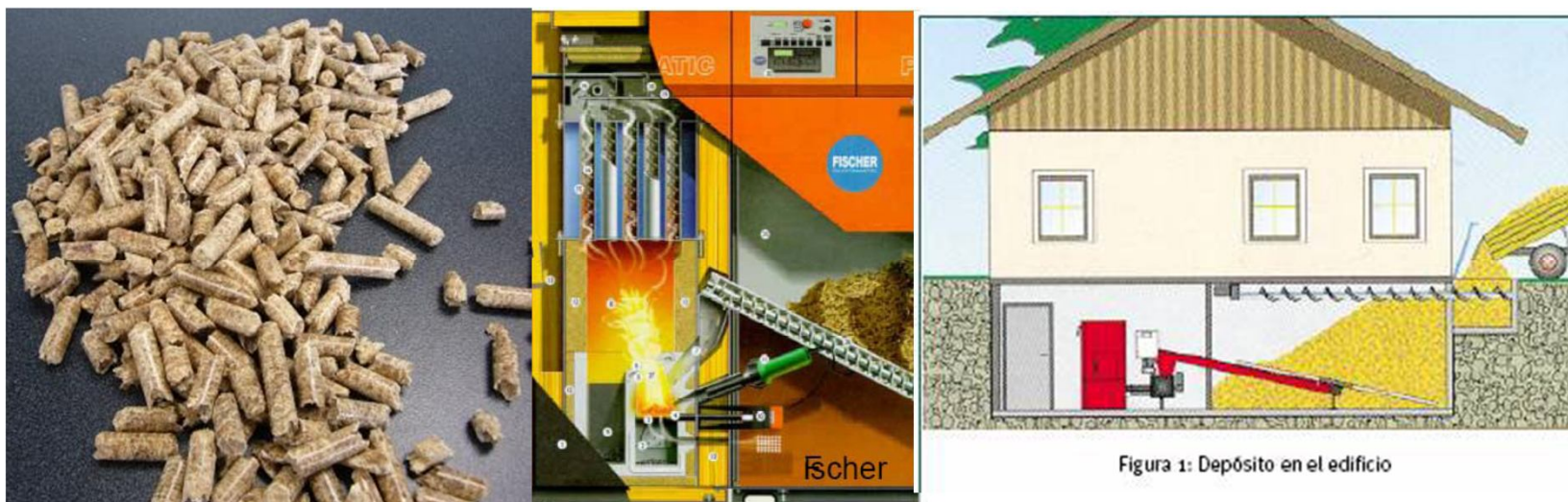


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🌀 ENERGY from BIOMASS

- 🌀 Mature technology. Boilers performance over 90%
- 🌀 Competitive prices vs. fossil fuels.
- 🌀 Logistic (supply, transport and delivery of biomass) and cultural barriers

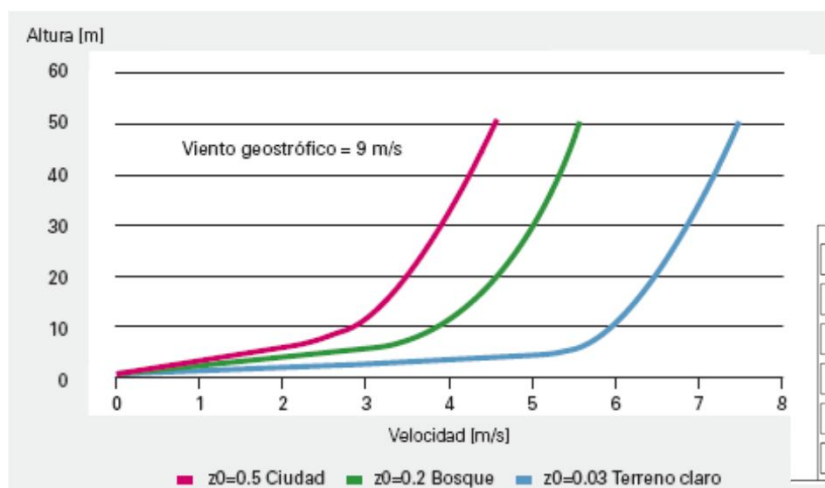


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🌀 URBAN WIND ENERGY





- 🌀 Technology under development. Not always cost effective in urban spaces
- 🌀 A good complement for PV in high rise buildings in smart grids
- 🌀 Great symbolic impact. Awareness rising



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SOLAR THERMAL POWER





-  The great hope. The total solar energy absorbed in one day by the Earth is more energy than the world consumption in one year.
-  Great opportunity for Mediterranean countries
-  Thermal energy can be stored, so it can work 24 hours a day
-  Challenge: to develop decentralized urban solar thermal plants



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TO SUMMARIZE:

-  **LOCAL ENERGY PLANS WITH HOLISTIC APPROACH AND INVOLVING ALL PLAYERS (Administration, Private Companies, Neighbours,...)**
-  **TO ASSESS RENEWABLE ENERGY SOURCES AND POTENTIAL ENERGY SAVINGS AT LOCAL SCALE, AND TO SET UP CLEAR OBJECTIVES.**
-  **STICK: MANDATORY RULES FOR COST EFFECTIVE TECHNOLOGIES**
-  **AND CARROTS (FEED IN TARIFFS, SUBSIDIES,...) FOR TECHNOLOGIES UNDER DEVELOPMENT**

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EQUIVALENTE AL CONSUMO DE 911.000 HOGARES

Navarra cubrió el 81,2% del consumo eléctrico con energías renovables

- La Comunidad Foral supera los objetivos europeos de renovables fijados para el año 2020
- Navarra produce electricidad limpia para más de cuatro veces el número de hogares

EP - Martes, 26 de Octubre de 2010 - Actualizado a las 14:25h.

☆☆☆☆☆ (2 votos) | [¡comenta!](#)

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THANKS FOR YOUR ATTENTION
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