



## Cost-effective Supply of Renewables

Presentation by Karl Kellner

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## Cost-effective Supply of Renewables: STREPs on Innovative design of automated biomass heating systems



**Aim:**

- reduce capital costs for introduction to mass market in the domestic and tertiary buildings sector

**Priority given to:**

- innovative designs and systems which permit the use low quality fuels (e.g. pellets from agricultural by-products or wastes) with high emission standards

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## Cost-effective Supply of Renewables: STRPs on solar heating and cooling



**Aim:**

- Heating and cooling

**Priority given to:**

- New generation of solar water heating,
- solar space heating/cooling systems
- combi-systems,
- solar industrial process heating or solar desalination systems

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## Cost-effective Supply of Renewables: STRPs on wind farms: components and design tools



**Aim:**

- reduce costs,
- increase efficiency and reliability,
- address low wind speeds,
- extreme load cases,
- complex terrains, advanced micro-siting, micro-climates

**Priority given to:**

- Actions that will facilitate the large scale deployment and grid integration including storage and closer cooperation

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## Cost-effective Supply of Renewables: STRPs on the next generation of PV technologies / products



**Aim:**

- reduce costs

**Priority given to :**

- innovative integrated solutions for supplying solar electricity at lower costs,
- innovation in manufacturing concepts to be integrated into production facilities,
- lower cost components, devices for grid connection and panels

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## Cost-effective Supply of Renewables: STRPs on Geothermal energy


**Aim:**

- Heat and cold production at acceptable costs

**Priority given to:**

- Innovative integrated systems with optimised efficiency and reduced costs for using environmentally sustainable technologies

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**Cost-effective Supply of Renewables:  
STRPs on Ocean/Marine energy  
technologies**

**Aim:**

- bring wave, ocean current and tidal stream technologies close to commercial exploitation

**Priority given to :**

- new systems ready for commercial exploitation

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