

AN ENERGY SUSTAINABLE... **CRAILSHEIM**

Crailsheim is a medium-sized town in the south German region Baden-Württemberg. It is an industrial site and it has 32.000 inhabitants.

The City of Crailsheim has a strong connection with the STW Crailsheim, local stakeholders and citizens, together with the will to find jointly smart and innovative energy

SEC TARGETS

Today, Crailsheim's total end energy consumption is at an average level with about 50 000 kWh per capita and year. Energy supply still depends to 77 % on fossil fuels. Main consumers are private households(45 %), followed by industry (19 %). The share of renewable energies (6.3 %) and the use of energy efficiency technologies (2.4 %) strongly increased in the last decade, mainly based on private and commercial initiatives. Local sustainable energy policy is at a starting level.

The SEC targets set by the MUSEC Crailsheim partners are derived from the ambitious goals of the Comprehensive Energy and Climate Programme approved by the German government. Through this package of concrete measures Germany's green house emissions shall be reduced by 40 %.



| Sector | Crailsheim 2005 | Crailsheim's 2020 target |
|---|-----------------|--------------------------|
| Reduction of electricity, heat and cold consumption | - | 11 % |
| Share of cogeneration in electricity generation | 2.5 % | 25 % |
| Share of renewable energy sources in electricity generation | 23.8 % | 30 % |
| Share of cogeneration in heat sector | 2.4 % | 10 % |
| Share of renewable energy sources in heat sector | 2.4 % | 20 % |
| Increase of energy efficiency in the mobility sector | - | 17% |

SEC STRATEGY

- Energy efficiency and renewable energy supply in the industrial and the housing sector: this sector will be developed by new cooperation schemes between the utility as energy supplier and enterprises.
- Renovation and Heating modernisation in private residential buildings: Private investments are stimulated by an information campaign, promoting also the available subsidy programs.
- Policy and SEC infrastructure at municipal level: Improvement of the SEC policy and installation of structures for continuous management, monitoring and communication of the SEC process.
- Energy awareness: Raising public energy awareness and involvement through a MUSEC Crailsheim campaign.

Crailsheim's strategy builds on two main issues:

- Amplifying the existing sustainable energy co-operations mainly on the business-to-business and energy services sector.
- Improving public policy and structures and stimulating private investments.

SEC ACTIONS



Contact

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- **Solar district heating** Hirtenwiesen II (in construction): Stadtwerke Crailsheim are realising Germany's largest solar thermal plant with a peak capacity of 7 MWth and a collector area of 10,000 m². The solar district heating plant generates 3.000 MWh of thermal energy per year in an equal-zero-emission way for supplying heat to a recently developed residential area. By this more than 1,000 tons CO₂ are avoided.
- Stadtwerke Crailsheim in cooperation with 27 municipalities built a plant for **thermal mineralisation of sewage sludge** in combination with a biomass power plant (in operation).
- Two important industries, Procter&Gamble and Voith Turbo, performed exemplary **industry energy efficiency measures** in their Crailsheim plants (in operation).
- Stadtwerke Crailsheim scheduled an **public energy awareness campaign** 'Who will be Crailsheim's energy hamster?' for autumn 2008 and a marketing campaign on new CHP contracting offers targeted to industry and enterprises for spring 2009 (scheduled).