Urban Development
Debrecen, 14. October 2011

DATA SOURCES:
- AGFW
- Federal Statistical Office
- Techem study
- GDW statistics
- Heizspiegel
- BMWI = Germany Ministry of Economics

Debrecen, 13.-15. October 2011
Urban Energy Conference

» German Energy Policy - Political Targets of the Government

<table>
<thead>
<tr>
<th>Climate</th>
<th>Renewables</th>
<th>CHP</th>
<th>Energy efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHG Base 1990</td>
<td>Share Elect</td>
<td>Share Heat</td>
<td>Share overall EEC</td>
</tr>
<tr>
<td>2020</td>
<td>-40%</td>
<td>35%</td>
<td>14%</td>
</tr>
<tr>
<td>2030</td>
<td>-55%</td>
<td>50%</td>
<td>30%</td>
</tr>
<tr>
<td>2040</td>
<td>-70%</td>
<td>60%</td>
<td>45%</td>
</tr>
<tr>
<td>2050</td>
<td>-85-95%</td>
<td>80%</td>
<td>60%</td>
</tr>
</tbody>
</table>

AGFW means 40 years of experience in this field

- AGFW is the efficient, independent and impartial association promoting (district) heating, cooling and CHP at national and international levels
- AGFW reunites about 450 (regional and municipal) district energy suppliers and industrial operators of this industry in Germany and Europe
- AGFW represents over 95% of the heat load connected to German district heating systems – the largest scale in Western Europe
- AGFW means 40 years of experience in this field

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» The Phase-out Curve of Technologies

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» Energy Consumption of Residential Buildings by Type of Service

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» Energy Consumption of Residential Buildings by Type of Service

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» Demographic Changes

Sources: Stat. Bundesamt/BBR
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**National Urban Development**


Laws, grants, assistance, R&D

Local Municipal Concepts

Implementation Energy and Environmental Concepts

Integrated Urban Development Concepts

**Urban Development Strategy Saxony in 2020**

Rules:

- Inner development takes precedence over external development
- Living (and business) in the inner city - for young and old
- Heritage (building conservation) has priority (identity)
- Central places
- Innovative energy concepts have priority

**Long Term Courses in Germany**

- Target group:
  - Main group: Municipalities, especially urban developers/planners, environment/construction offices
  - Downstream group: external planners, architects, and supply companies
- Start of the courses: January 2012

**Structure of the Long Term Courses in Germany**

- Module 1 (2 days à 8h): Fundamentals and introduction into the city as a system - technical infrastructure
- Module 2 (2 days à 8h): Basic conditions and characteristics - energy and energy-efficiency
- Module 3 (2 days à 8h): Physical / technical background / forms of energy / energy sources / building
- Module 4 + test 1 (2 days à 8h): Definitions and capabilities / limits of RES
- Module 5 (2 days à 8h): Basic economic data - to module 3 and 4
- Module 6 (2 days à 8h): Creating a concept
- Module 7 + test 2 + excursion (1 day à 8h + 1 day excursion and test 2): Legal framework for the implementation of energy- / climate-political and urban planning objectives
- Module 8 + Certification (1 day 8 hours + 1 day à certification): Implementation measures - Best and Worst Practice with examples

Programme can be found on: [http://www.agfw.de/stadtentwicklung/eu-projekt-up-res](http://www.agfw.de/stadtentwicklung/eu-projekt-up-res)

See you again at the largest DH Trade Fair
Many thanks for your attention!

Thank you for your attention

Dipl.-Ing. Sarah Vautz

For more information please contact:

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