Approaches for integrative energy planning

Possible integration of energy in the planning process

1. Develop a citywide strategy on development of energy network
2. Setup and keep active a special committee to debate energy issues
3. Work on commitment and aims in the formal urban developing contract
4. Work on feedback from Eco-district label to fix criteria / data / process

Some recommendations for integrative energy planning

Total energy consumption in buildings by source (2015)

Final energy consumption (buildings) - total (2014): 30.100 GWh
Final energy consumption per capita (buildings) (2014): 14.186 kWh/cap*a
CO₂ emissions- total (Buildings) (2014): 5.489.249 t CO₂ eq
CO₂ emissions per capita (Buildings (2014): 2,47 t CO₂ eq / cap*a

City Facts

<table>
<thead>
<tr>
<th>General data</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (km²)</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>% of green area</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>% of water (incl recreational)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Size (population)</td>
<td>2.365.898</td>
<td></td>
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<tr>
<td>Density (inh./km²)</td>
<td>21.147</td>
<td></td>
</tr>
<tr>
<td>Density (houses/km²)</td>
<td>1.158</td>
<td></td>
</tr>
<tr>
<td>Annual population growth (%)</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>Purchasing Power (GDP/capita in EUR)</td>
<td>112.980</td>
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</tbody>
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Important issues of the current processes towards energy

- Lack of transversality between urban planning matters and energy matters
- Responsibility for energy planning is not clearly established
- No instrument specially dedicated to energy planning
- Lack of energy data for energy production and consumption
- Lack of control from the city during the development of private urban planning projects
- Lack of monitoring after the implementation

PARIS' urban planning process

Modal Split (2017)

Cars per 1.000 inhabitants (2014): 422

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