Energy sector coupling session

Rodolphe de Beaufort – Digital Director
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Saclay DHC ongoing projet – live in 2018
Evolving towards a backbone of the local energy transition

1.740.000m² being built between 2015 & 2028 with associated infrastructure

Integration between electricity and heat is already possible, with a real time optimization.

Cold integration allows a competitive business model even with “energy positives” or “carbon neutral” buildings.

**Energy mix**

- Geothermal: 60%
- Electricity: 36%
- Gas: 4%

40GWh Annual heat production delivered by the network

37GWh maximal heat production

10GWh Annual cold production delivered by the network

10MWh Average heat & Cold production
Decentralised energy trend favors sector coupling

- At European level traditional energy planning is done through a long term processes involving electricity and gas TSOs mainly.

- Decentralization brings a massive part of the energy infrastructure planning at regional or even local level. In France, 90% of the new capacity production is connected on the DSO network.

- Regulation is evolving every year to favor this trend everywhere in Europe.

- DHC stands at the local crossroads of electricity and gas networks and can contribute to integrate decentralized production with some flexibility.

- DHC may have a huge untapped potential, on brownfield and greenfield projects.

- This requires to put DHC in the hot topics of the regulatory and policy makers.

Source: National Grid UK
Sector coupling relies on DHC optimisation

Digitization will support the evolution of the business model

<table>
<thead>
<tr>
<th>Sector coupling</th>
<th>Some digitalization levers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holistic vision at the planning stage</td>
<td>GIS &amp; Open Data</td>
</tr>
<tr>
<td>Open Business Model</td>
<td>System Modeling</td>
</tr>
<tr>
<td>Intraday Supervision &amp; Production schedule Optimisation</td>
<td>Sensors, Scada, forecast, integration between production network and retailers, D-1 forecast</td>
</tr>
<tr>
<td>Develop Services &amp; Flexibility</td>
<td>Energy Efficiency management, flexibility forecast and demand response</td>
</tr>
<tr>
<td>Intraday Arbitrage</td>
<td>System Modeling, Intraday forecast</td>
</tr>
<tr>
<td></td>
<td>Merit Order management, integration with Aggregators IT systems and market mechanisms</td>
</tr>
<tr>
<td>Virtual Power Plant</td>
<td>Multi Energy Aggregator IT system</td>
</tr>
<tr>
<td></td>
<td>Integration with energy trading platforms</td>
</tr>
</tbody>
</table>
Digitization is required to connect Stakeholders
Integration of market participants