

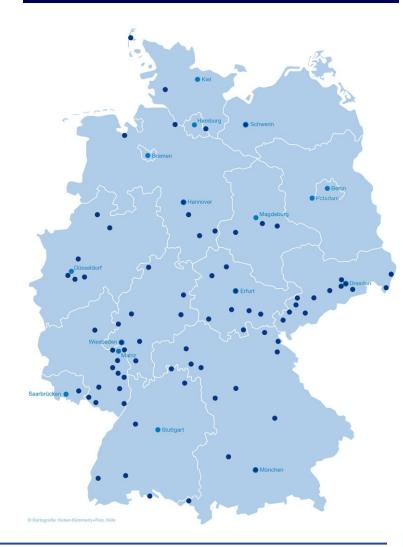
## Costs and Benefits Roll-out

Johannes Wieser, Thüga AG

Brussels, 08 October 2010

# Thüga represents the core of the largest public Energy Network in Germany

#### Thüga Portfolio



#### Thüga Business activity

- Shareholdings in approx. 90 public utilities
  - Minority shareholdings with Thüga providing Expert advice
- Value-increasing monitoring through Thüga
  - Transparency with regard to the quality of the capital management and risks
  - Moderation of the cooperation
  - Performing benchmarks
- Direct energy supply
- Shared services

DIE ENERGIEGRUP

#### Key figures of the Thüga group

|   | Sales volume:          | € 15.3 billion    |
|---|------------------------|-------------------|
|   | Sales volume.          | £ 15.5 DIIION     |
| • | Investments:           | € 2.4 billion     |
| • | Gas sales:             | 123.7 billion kWh |
| • | Electricity sales:     | 36.6 billion kWh  |
| • | Gas customers:         | 2.2 million       |
| • | Electricity customers: | 3.1 million       |
| • | Employees:             | 16,800            |

Johannes Wieser ERGEG Hearing, Brussels, 08 October 2010

### **Costs and Benefits**

#### associated with different market roles

|  | Market Role                             |  |
|--|---|--|
| Costs  |   |  |
| <ul> <li>investments in infrastructure</li> <li>operation of IT systems</li> <li>etc.</li> </ul> | grid operators                          |  |
| Benefits   |   |  |
| e.g.<br>•service-oriented/ bundled products  | sales and distribution department (S&D) |  |
| e.g.<br>•transparency  | customers                               |  |

Some benefits for S&D need changes referring to market rules.

As grid operators are strongly affected by regulatory framework conditions, costs for meters with basic functionalities have to be acknowledged by national regulatory authorities.



## **Roll-out**

Referring to a smart meter roll-out solution the following aspects should be considered:

| Cost/Benefit Analysis          | <ul> <li>Specific national conditions/ market structures<br/>always have to be adequately taken into<br/>account.</li> <li>The focus should be on the most effective<br/>extent level of roll-out (electricity/gas)</li> </ul> |  |
|--------------------------------|--|--|
| Influence on Energy Efficiency | <ul> <li>electricity: achievable, with additional consulting services</li> <li>gas: uncertain referring to domestic customers</li> </ul>   |  |
| Need for Standards             | <ul> <li>minimum standards prevent misdirected<br/>investments</li> </ul>  |  |
| Functionalities of the Meters  | <ul> <li>basic features under regulation (regulated market design)</li> <li>additional features under competition (competitive market design)</li> </ul>   |  |
| ••                             |  |  |

