JODI Gas – Gas Data Collection(s) in Germany

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Facts on German Gas Market (2012):

- 5 Gas Exploration Companies
- 17 Transmission System Operators
- ~700 Distribution System Operators
- ~60 Gas Trading Companies
- 23 Gas Storage Companies
- ~850 regional/local distributors

- ~3.150 PJ Gross Inland Cons.
- ~22% of TPES

Source: NEP Gas 2013
Energy Statistics Act

- Most important legislation for surveying energy data in Germany
- In general State Statistical Offices of the Länder are responsible for the data collection – Data is processed and forwarded to the Federal Statistical Office
- Statistic comprises data collections for Electricity, Gas, Heat, Coal, Renewables and the yearly energy use in the industry
Energy Statistics Act – Natural Gas Data Collection

- Monthly, partial survey with biggest companies (exploration and import/trading companies) and yearly total population survey

- Surveyed data points in the monthly statistic:
  - Extraction/ Production
  - Inland Purchases
  - Imports by origin
  - Exports by destination
  - Own use
  - Storage balance
  - Deliveries (Distributors, Power Generation, Heat Generation, Industry, Households, Other)
Energy Statistics Act – Issues

**Issue: Timeliness**
- Since 2012 for Natural Gas monthly data collection: Länder no longer responsible, **Central data collection** from the Federal Statistical Office – more timely data, still M-1 remains challenging!

**Issue: Stock Levels**
- Currently, there are no administrative/statistical surveys on site-based storage levels; however, data on deliveries to, and withdrawals from storage sites are collected

**Issue: Power Generation**
- Data available but data quality insufficient (for sells to distributors respondents do not know if gas is finally input to power generation) -> Monthly electricity data! M-1?

**Presently:**
- Amendment of the Energy Statistic Act and the Federal Statistic Act
  - Monitoring of the Energiewende, more flexibility in the legislation, easier use of administration data (reduce reporting burden), Gas: short-term statistics on physical flow
Physical Flow Data Collection

- Project started in 2008 at the Federal Network Agency in close cooperation with DVGW (German Technical and Scientific Association for Gas and Water)
- Background: Security of Supply - EU Regulation Nr. 67/2004 and Nr. 994/2010
- 17 TSO`s reporting hourly data on physical flows in their network at cross-border points, between market areas and at production and storage sites
- Gas storage companies reporting storage levels on a daily basis
- Since March 2013 data transfer and database functional – at the moment data checking and quality control
- Data is available from October 2012 on
Physical Flow Data Collection - Issues

**Issue: Power Generation**
- At the moment there is no possibility to identify the gas volumes delivered to power generation
- Might be included in future

**Issue: Own use and losses in the natural gas industry**
- No data on consumption in gas extraction and pipeline system available

**Issue: Conversion to Cubic Meters**
- Data is collected in energy units (kWh)
- Conversion to Cubic Meter with standard conversion factor of 10.8 kWh/m³
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