

The German Gas Network Development Plan

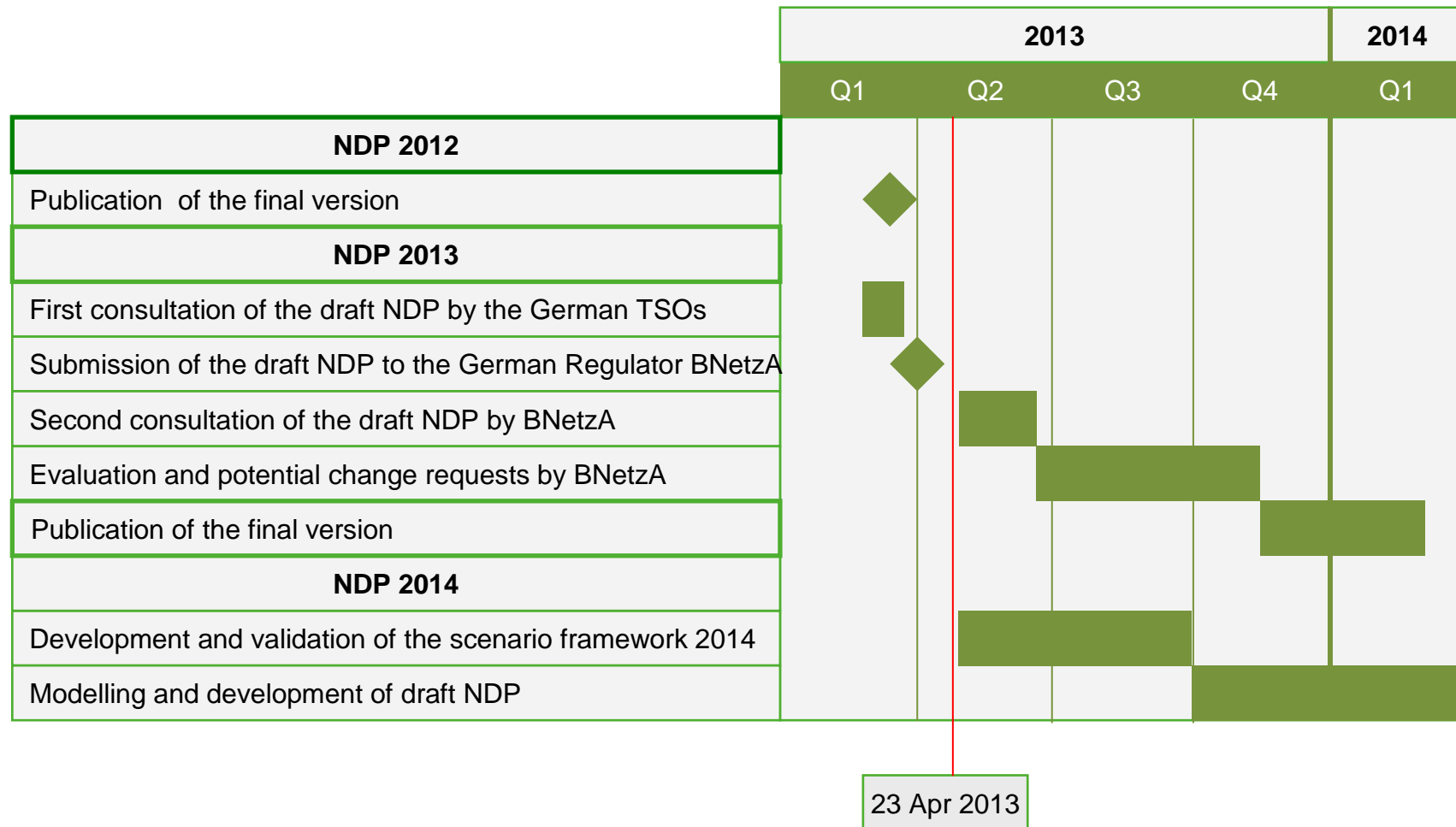
A contribution towards the effective implementation of the German Energiewende



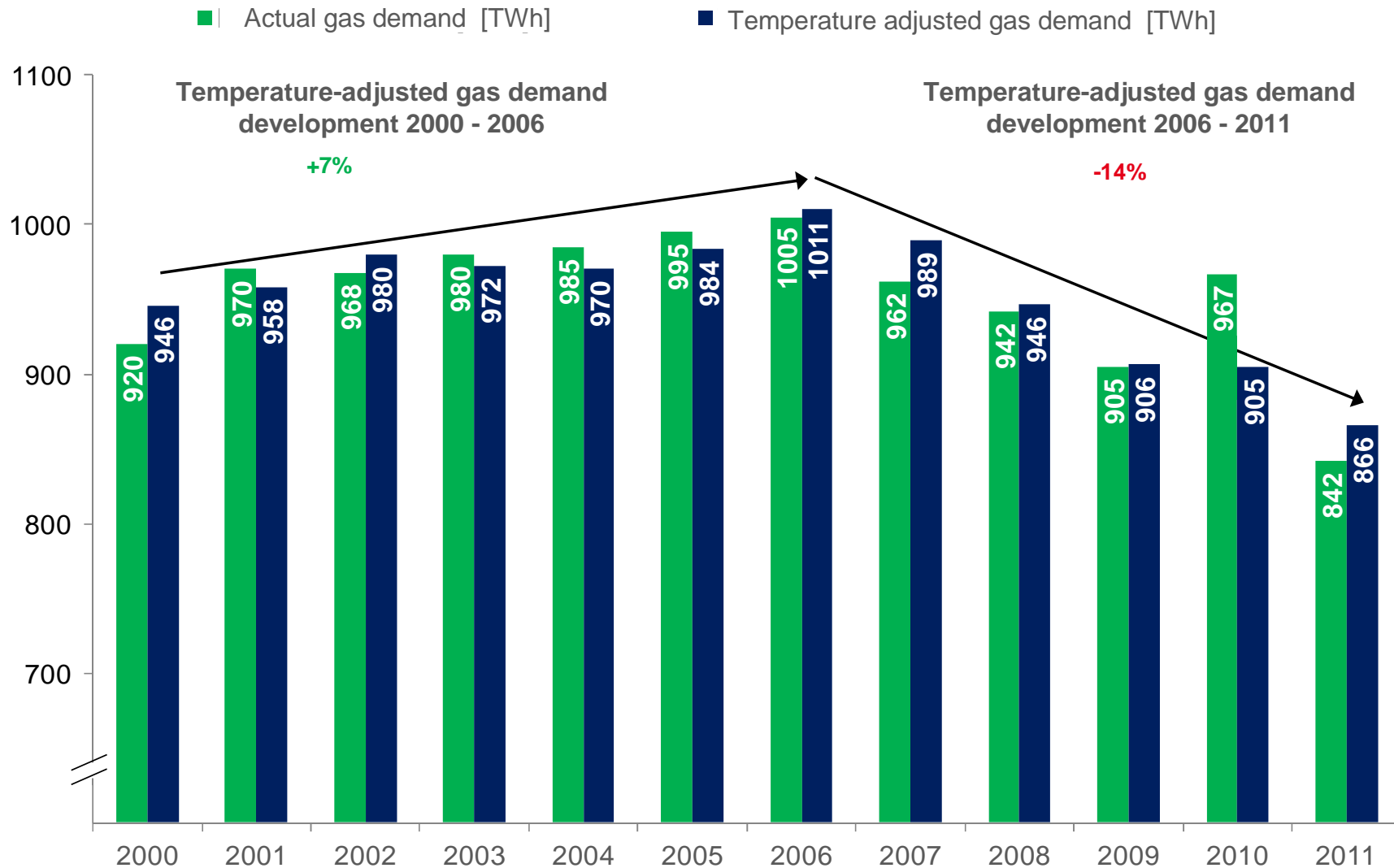
Agenda

Schedules of the German NDPs for Gas
Development of German natural gas consumption
Efficient investments to connect
power plants, and
new gas storages
Current draft NDP 2013

Schedules of the German NDPs for Gas

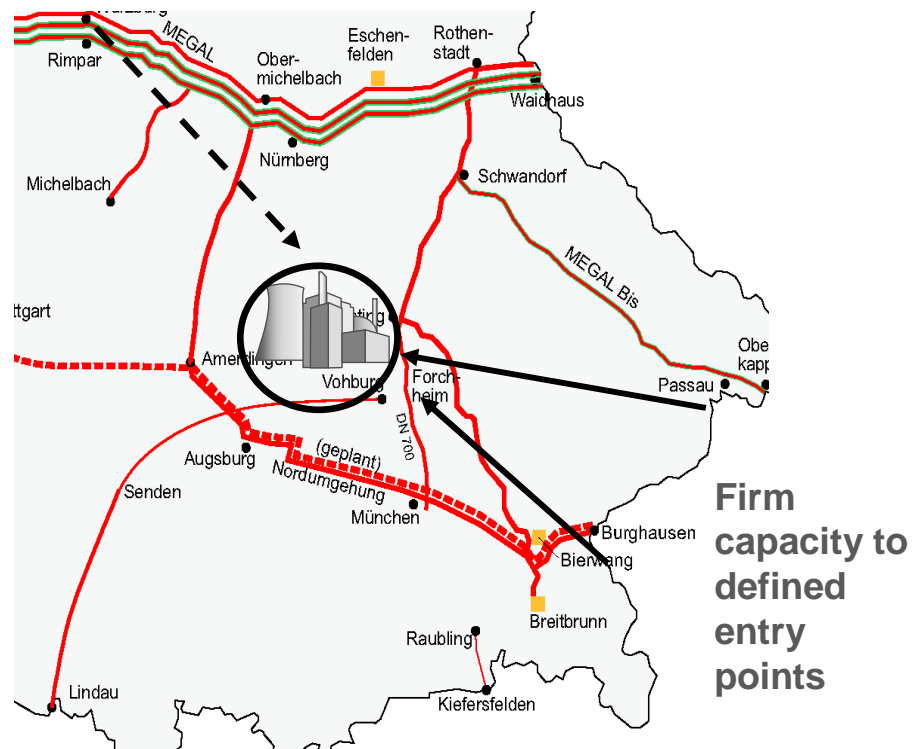


Natural Gas Consumption in Germany



Efficient investment to connect new gas power plants

Interruptible access to the virtual trading point



Capacity product I

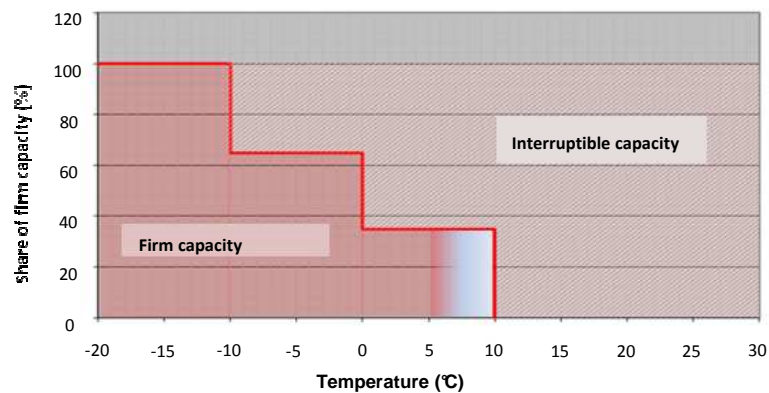
- Access to the virtual trading point on an interruptible basis
- Firm transmission capacities to one or several pre-defined entry points (IP, storage entry)
- Alternative entries dependent on location of the power plant

Huge savings for public/cost benefits

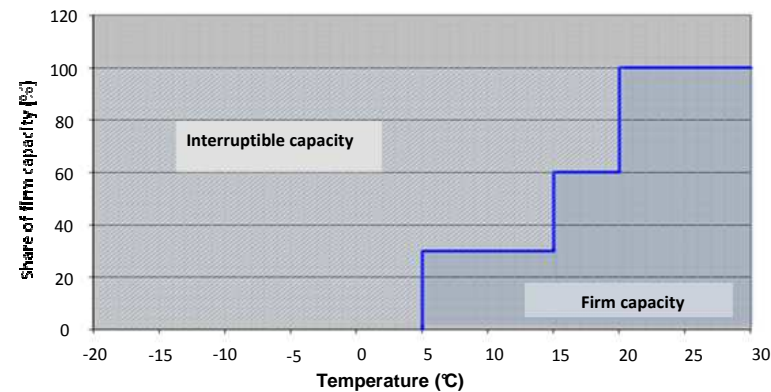
compared to provision of firm and freely allocable capacity

Efficient investment to connect new gas storages

Network entry (withdrawal of gas from storage)



Network exit (gas storage filling)



Capacity product II

- Firm transmission capacity depending on an agreed temperature range
- Based on temperature forecast of the previous day
- Supply safety and flexibility to trade

Huge savings for public/ cost benefits

compared to provision of firm and freely allocable capacity

Current draft NDP 2013

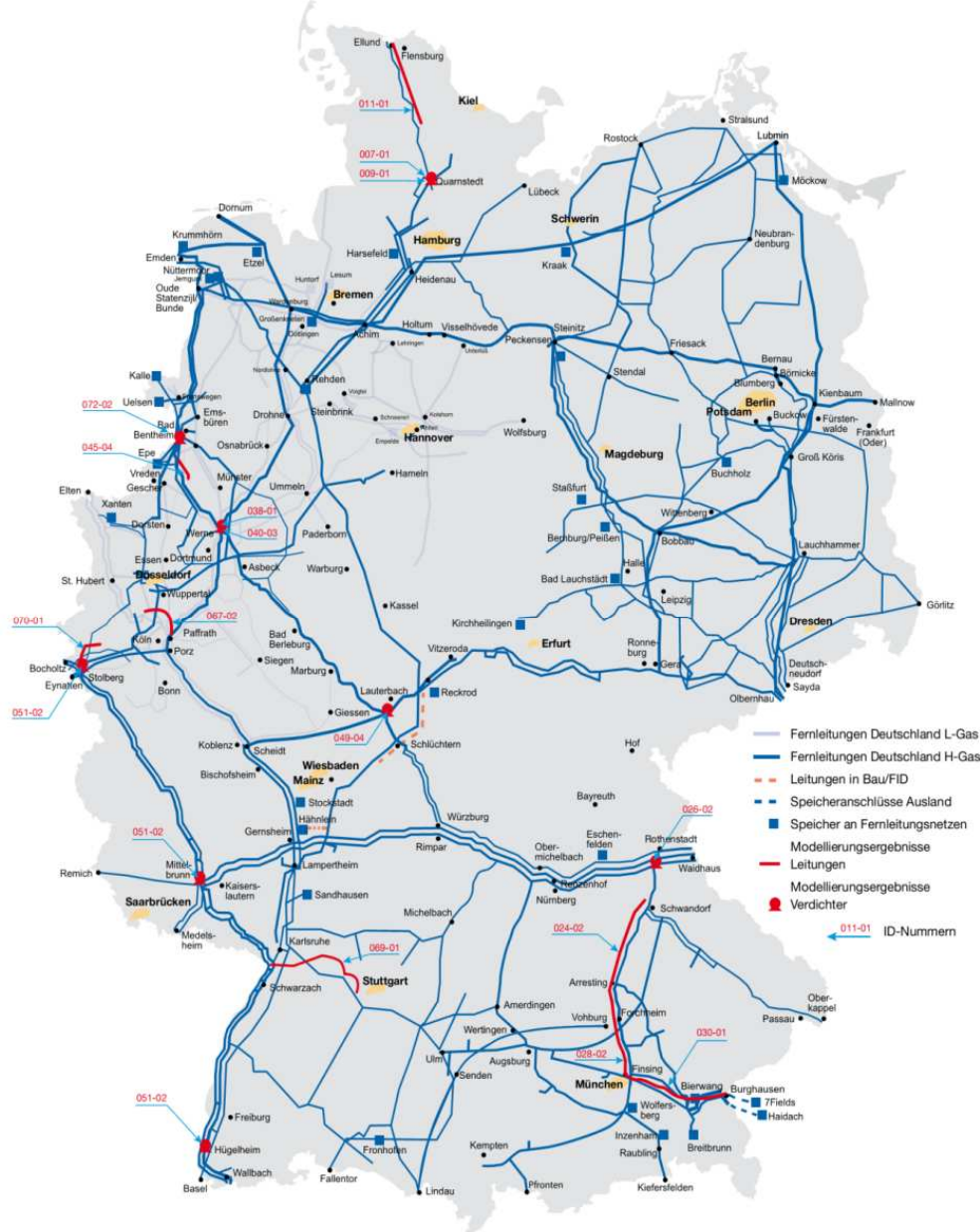


Results of 2023 simulations for the German L gas grid

- Compressor stations: + 0 MW
- Pipeline projects: + 48 km
- Investment costs:

142 mill. EUR

Current draft NDP 2013



Results of 2023 simulations for the German H gas grid

- Compressor stations: + 164 MW
- Pipeline projects: + 393 km
- Investment costs:

1246 mill. EUR

Thank you for your attention.

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