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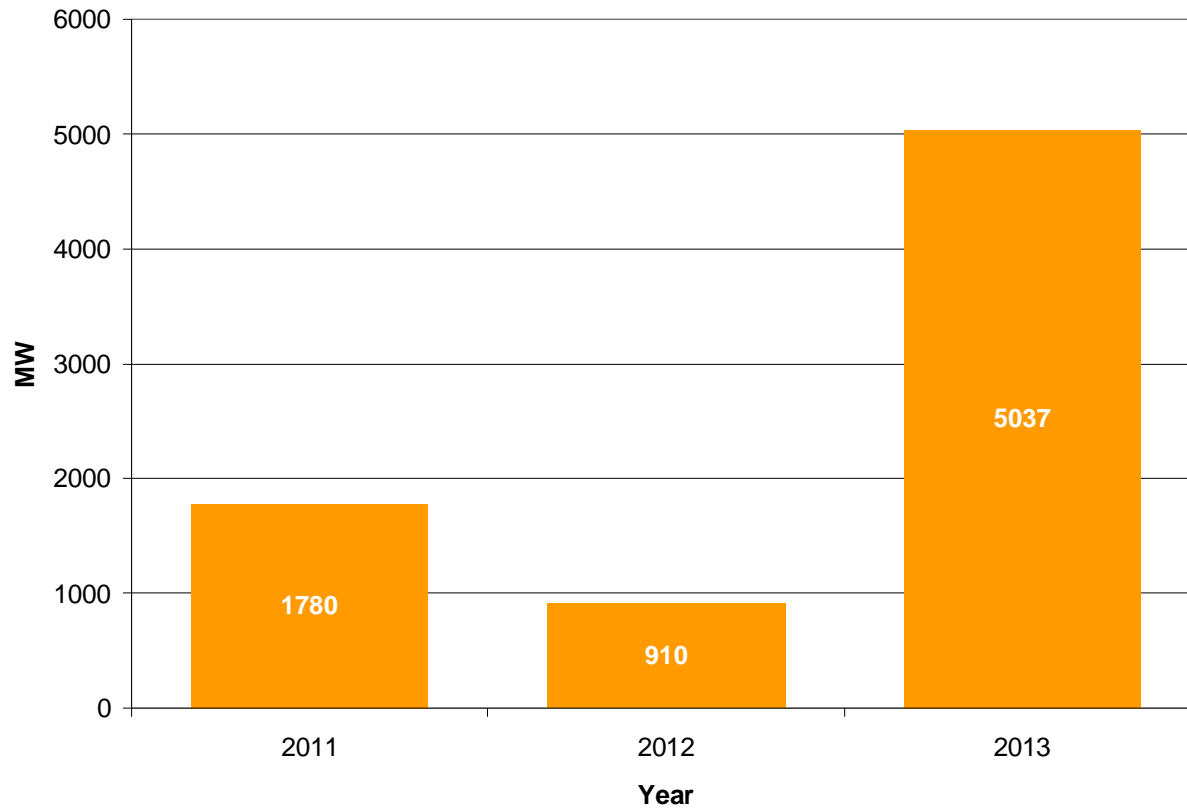
BNetzA´s view on grid operation and generation adequacy

Brussels, 20 July 2011

Matthias Kurth
President Bundesnetzagentur



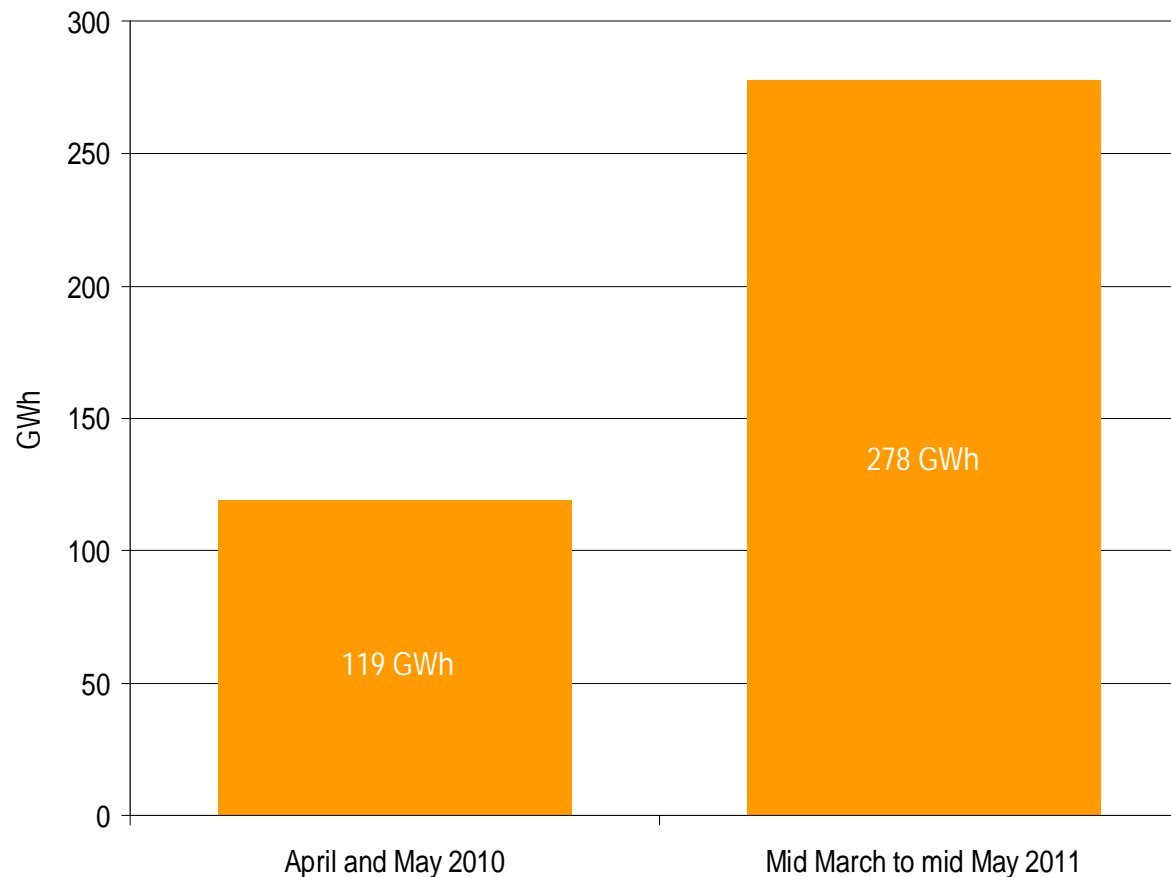
Generation capacity: Planned net increase



- n Decommissioned nuclear generation: 8400 MW
- n Remaining reliable generation capacity is sufficient to meet demand on national scale
- n Planned developments of thermal generation and pump storage will lead to a considerable net increase of reliably available capacity in Germany per year

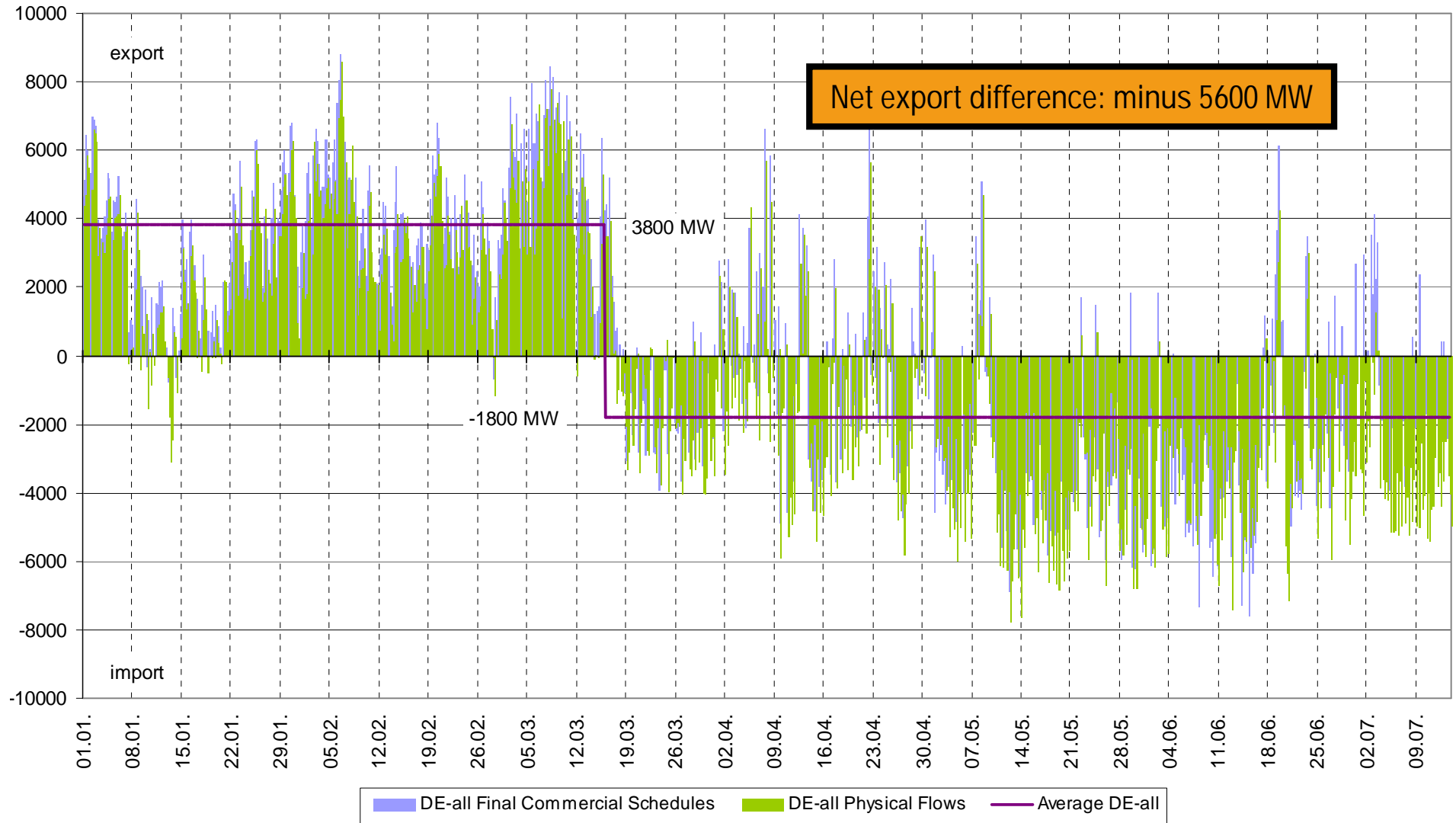


TSO Measures: Operational volumes



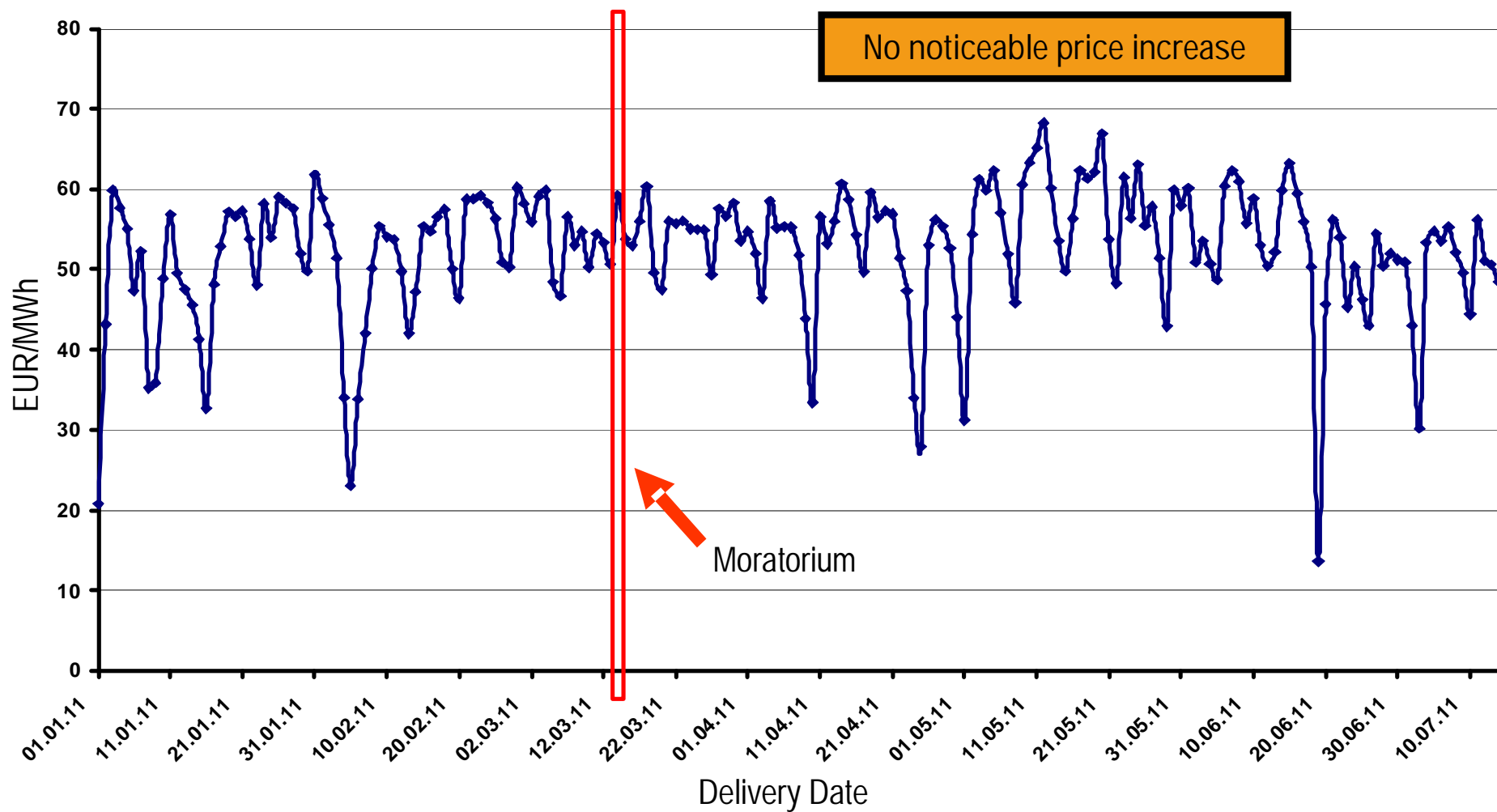
- n A geographical imbalance between generation and load causes increased flows from North to South (generation centred in Northern Germany, load centres in the South)
- n In order to guarantee safe network operation, TSOs must modify market behaviour through measures such as switching operations, countertrading, and redispatch

Cross-border electricity exchange



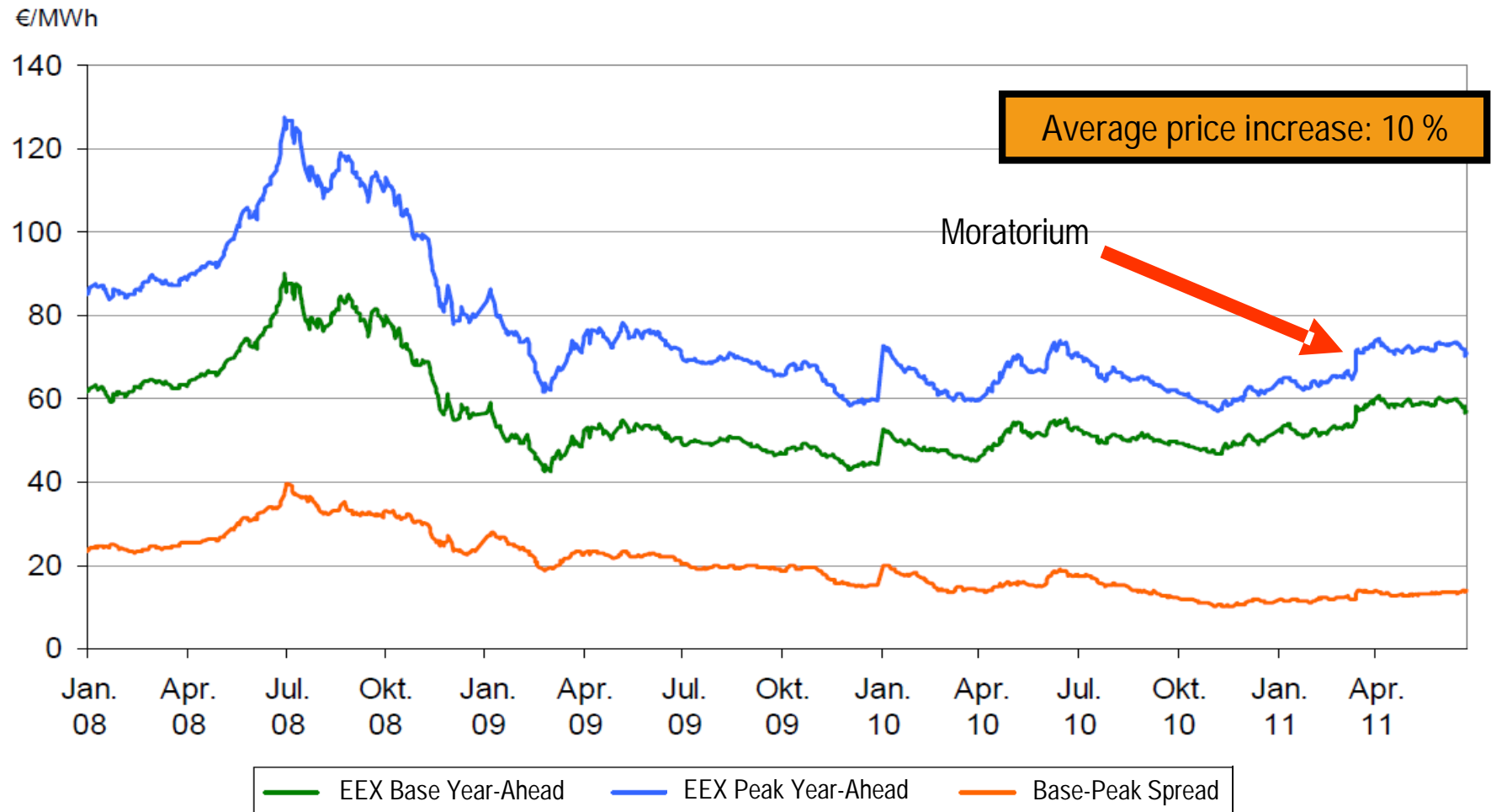


EPEX Spot Prices Phelix Base 2011





The big picture: Post-moratorium price hike is dwarfed by pre-renewable era prices





Transparency:

Publication of both German and English language versions of BNetzA's report / summary

Information:

BNetzA delivers regular briefings to the CEER GA, ACER Board of Regulators, and European Commission working groups

Coordination:

BNetzA has regular bilateral contacts on generation adequacy and grid stability

Cooperation:

BNetzA provides relevant data to CEER's ad hoc group on nuclear shutdowns (AHGNS)

Innovation:

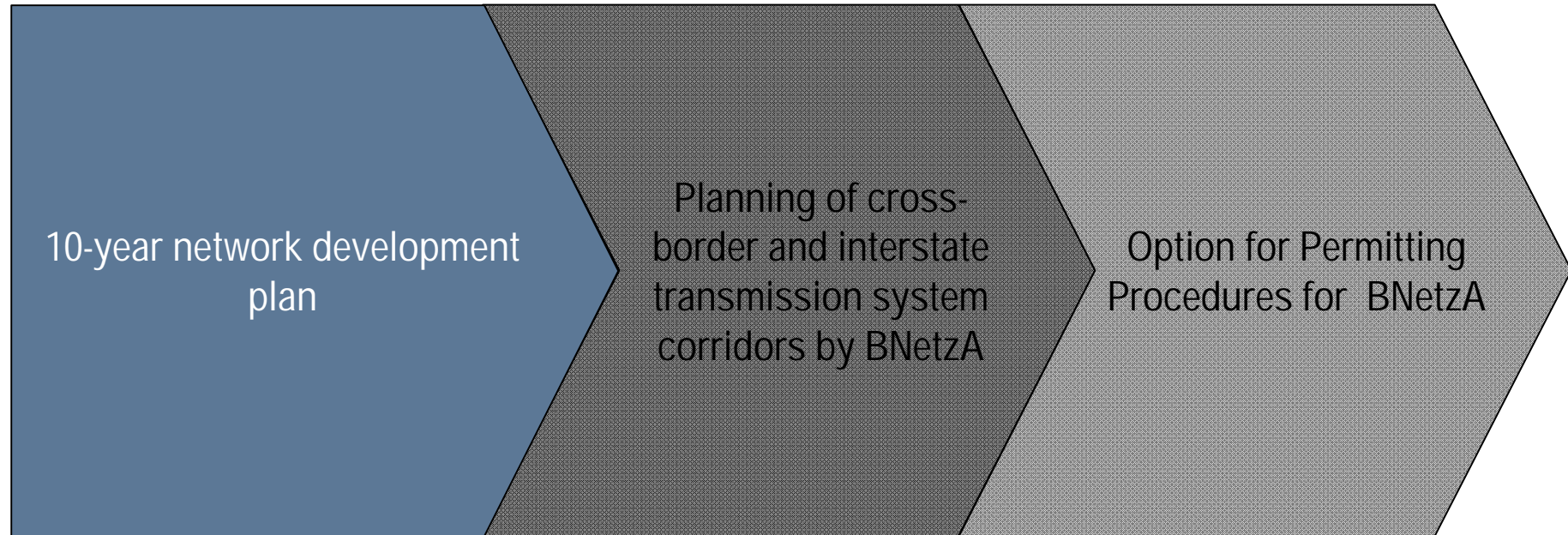
BNetzA actively drives discussions on investment framework in grid and generation



Survey	Reports	Proceedings
<ul style="list-style-type: none">n BNetzA has conducted a survey on installed power plants with a capacity of 20 MW or moren On the basis of this survey, BNetzA is evaluating in detail generation adequacy, flows, and reactive power on a regional scalen If (conventional) generation capacities are found to be insufficient, BNetzA may request one of the shut down nuclear plants to operate in reserve mode	<ul style="list-style-type: none">n BNetzA has published two detailed reports on network stability, security of supply, and generation adequacy (summaries are available in English)	<ul style="list-style-type: none">n Revised energy act (EnWG) grants TSOs powers to call on generators for redispatch measures and activation of reservesn BNetzA has initiated proceedings specifying those powers



Network development as a transparent concept under federal supervision of BNetzA



- n Faster permit procedures are on the way in Germany – legislation passed in June 2011
- n Network expansion is clearly decided: “of highest public interest”
- n Network Expansion against Climate Change - Europe has to deliver changes in environmental legislation



- ✓ Network stability is well under control, even though it requires significant efforts from TSOs
- ✓ Security of supply margins will be met on a national basis
- ✓ Response by the wholesale market has been rational and moderate
- ✓ Network and generation development have been identified as urgent priorities for which new legislation has been adopted



Thank you very much for your attention!