

GTE+ Winter Outlook 2009/2010

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Background







- In preparation for an upcoming ENTSOG task, GTE+ publishes a yearly European Winter Outlook
- Analyze at EU level
 - ✓ EU capacity / demand balance
 - ✓ Integrated flow patterns
 - \checkmark Member State capacity / demand balances
 - for
 - ✓ Normal cold conditions
 - ✓ Exceptional cold conditions



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Background



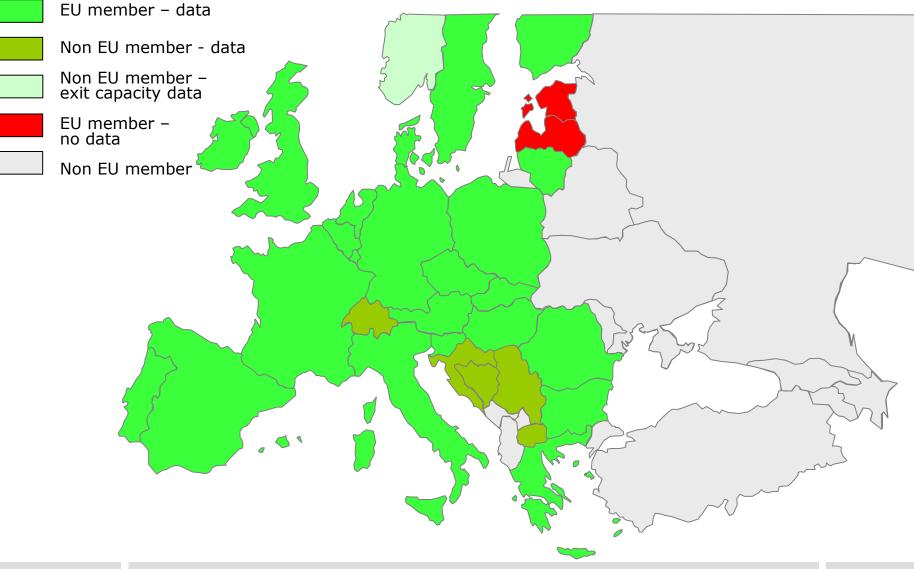


Data received from 29 countries

- Austria, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Former Yugoslav Republic of Macedonia, Germany, Greece, Hungary, Ireland, Italy, Lithuania, Luxembourg, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and United Kingdom
- Assumptions taken for exit points to countries for which no data was received



Involved countries / data provision



GTE+ Winter Outlook 2009/2010



EU capacity / demand balance

S EN S	
	(GWh /d)
Total capacity connected with import	12.918
Total capacity connected with LNG	4.834
Total national production	8.386
Total storage	13.669
Sum	39.807
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Total Market (Normal cold conditions)	28.557
A Constant 2 m	
Total Market (Exceptional cold conditions)	35.546 >
Con Dependence	





Integrated EU flow patterns

- \rightarrow normal cold conditions *
- \rightarrow exceptional cold conditions *

Capacity / demand balances

- \rightarrow normal cold conditions *
- \rightarrow exceptional cold conditions *

* Exceptional cold conditions and normal cold conditions as defined in the individual Member States.



Integrated EU flow patterns

Derivation of an integrated EU flow pattern, taking into account the following conditions:

- \checkmark Entry flows from another country \leq IP capacity at entry points
- \checkmark Flows from national production \leq national production past flows*
- ✓ Flows from storages \leq storage send out capacity**
- \checkmark Exit flows to another country = national intakes mkt. demand
 - * taking into account the depletion of production fields
 - ** taking into account the decrease of storage performance during winter

For the avoidance of doubt:

• The integrated flow patterns represent hypothetical cases just for the purposes of this Winter Outlook



Capacity / demand balances

- + IP capacity at entry points*
- + National production past flows**
- + Storage send out capacity***
 - **Capacity usage to other countries**

Market demand forecast

- normal cold conditions
 - exceptional cold conditions

Capacity / demand balance

- normal cold conditions
- exceptional cold conditions
- * lesser of entry capacity and upstream exit capacity at the IP. At bidirectional borders only the capacity for the applied direction (see arrows in the flow direction maps) is used
- ** taking into account the depletion of production fields
- *** taking into account the decrease of storage performance during winter

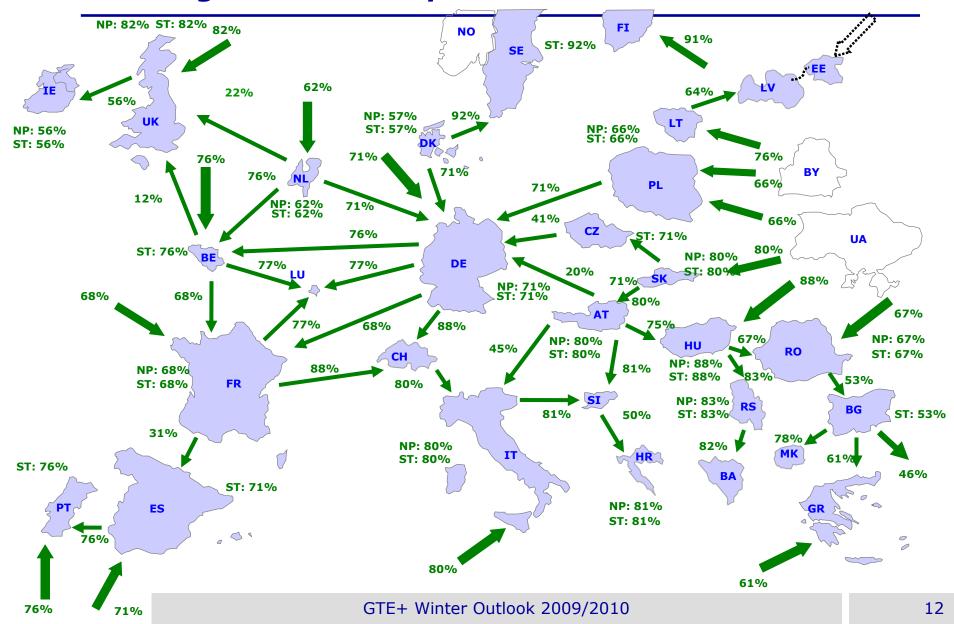


Keys for the subsequent flow pattern maps

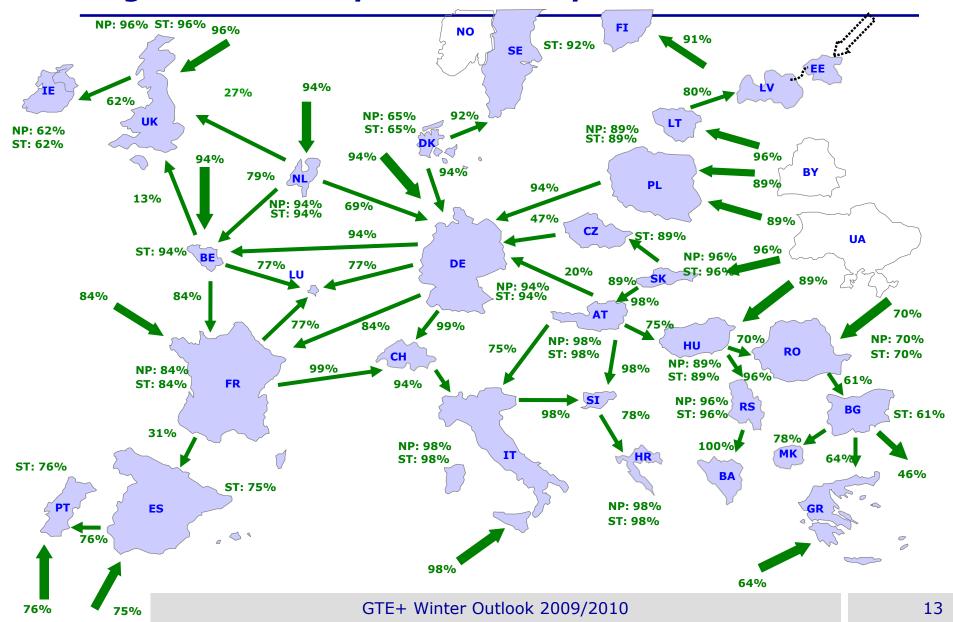
Symbol	Description
\rightarrow	Entry/Exit flows from/to non EU countries
\rightarrow	Entry/Exit flows between EU countries*
NP:	Flows from National Production
ST:	Flows from Storage
%	Utilization ratio of the infrastructure

* *IP* capacities are aggregated values (lesser of rule applies). At bidirectional borders only the capacity for the applied direction (see arrows in the flow direction maps) is used.

Integrated EU flow pattern – normal cold conditions

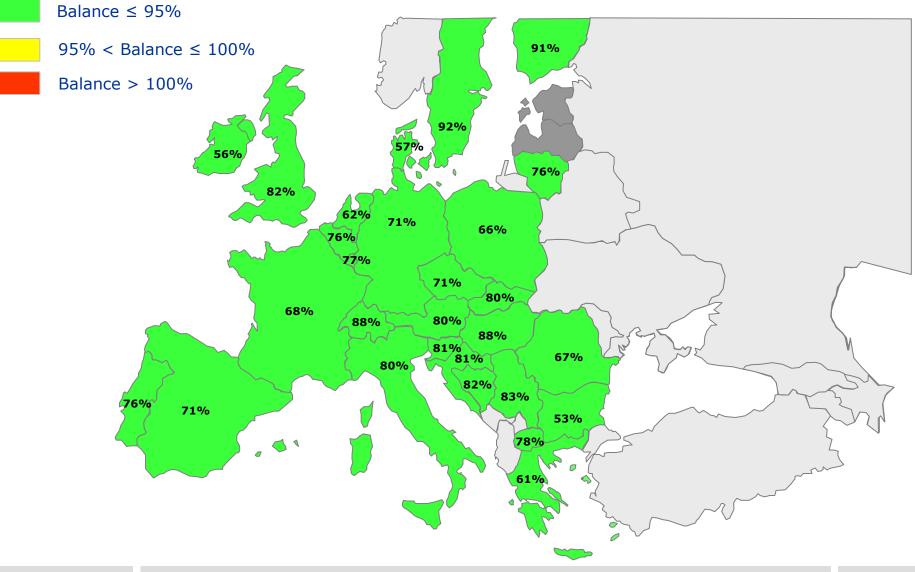


Integrated EU flow pattern – exceptional cold conditions



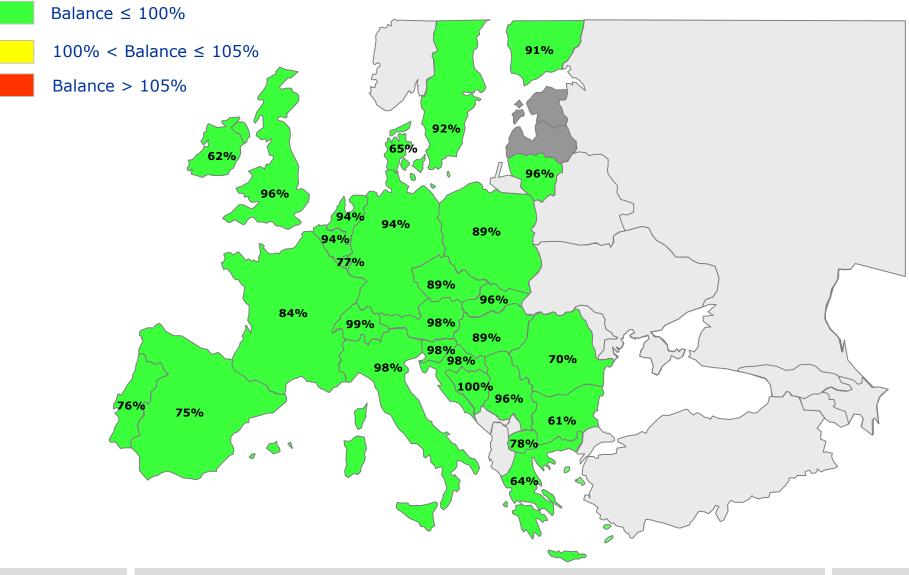


Normal cold conditions – capacity / demand balances





Exceptional cold conditions – capacity / demand balances





Key findings

- Integrated flow patterns show functioning capacity / demand balances in normal cold conditions and in exceptional cold conditions
- Considerable flexibility in normal cold conditions and in several countries even in exceptional cold conditions