

# SYSTEM DEVELOPMENT MAP 2011

entsog Avenue de Cortenberg 100 T +32 2 894 51 00 info@entsog.eu  
B-1000 Brussels F +32 2 894 51 01 www.entsog.eu

gie Avenue de Cortenberg 100 T +32 2 209 05 00 gie@gie.eu  
B-1000 Brussels F +32 2 209 05 01 www.gie.eu

The System Development Map 2011 presents existing infrastructure & capacity and planned infrastructure and capacity outlook from the perspective of the year 2011. The respective data are based on the ENTSOG TNSP 2011/2012, GIE's 2012/2013, GIE 2011 Storage Map, GIE 2011 LNG Map and ENTSOG's GIEP 2012/2013 business respective ENTSOG members provided their own data. The 2011 historical data on demand & supply, incl. the Winter 2010-2012, are based on data from the TSOs and GIE 400 Platform.

The Country Profiles present transmission capacities between countries (after application of the Loss-of-Fuel) storage & LNG capacities according to the interconnection to the country's transmission system and installed gas-fired power generation capacity, and the capacity outlook for the next 5 years. The gas production reflects the maximum deliverability achieved. The demand data represent actual country demand for the respective year/years.

All data provided in the map are for information purposes and shall be treated as indicative only. Under no circumstances shall they be regarded as data for commercial use.

\* A storage facility is considered to be multiple transmission systems in different countries, the respective storage capacity is indicated only under the country in which the storage is located.

**KEYS**

- Virtual Trading Points
- Intra-country or intra balancing zone points
- Cross-border interconnection point within EU (and with non-EU third country export)
- Cross-Border EU or non-EU export (Under construction or Planned)
- Cross-border interconnection point with non-EU third country import (Under construction or Planned)
- LNG Import Terminal (Under construction or Planned)
- LNG Terminal entry point into transmission system
- LNG Export Terminal (Under construction or Planned)
- Small scale LNG liquefaction plant (Under construction or Planned)
- Non-EU Cross-border interconnection point

**Countries**

- ENTSOG Member Countries
- ENTSOG Associated Partner
- ENTSOG Observers
- Other Countries

**Transport by pipeline**

- under 24"
- 24" to 36"
- 36" and over
- project
- unknown

**Transport by tanker**

- LNG route
- LNG route project

**NATIONAL PRODUCTION**

- RUSSIA
- NORWAY
- ALGERIA
- LIBYA

**Gas Reserve areas**

- gas field
- drilling platform

**Gas storage facilities**

- LNG Rack-Storage
- Acquirer
- Salt cavity - cavern
- Displaced Gas/field on shore / offshore
- Other type
- Unknown

**Gas storage project**

- multiple storage facilities operated by different TSOs

**UGS**

- LNG
- LNG STORAGE
- Outlook for the next 5 years

**EU Daily gas demand profile**

EU Total 2011: 5,058,875 GWh

EU Apr 2011 - Sep 2011 (Summer): 1,809,371 GWh  
EU Min. Day (14/08/2011): 7,288 GWh/d

EU Oct 2011 - Mar 2012 (Winter): 3,202,302 GWh  
EU Max. Day (07/02/2012): 29,090 GWh/d

**EU Supply Sources Shares / Yearly-Seasonal / %**

**EU Supply Sources Shares / EU Min - Max Day / %**

**EU Storage Seasonal Profile / GWh/d**

**EU Storage Withdrawal / GWh/d**

**EU Storage Injection / GWh/d**

**EU Storage Stock Level / GWh**

**EU Storage Seasonal Profile / GWh/d**

Key: Maximum delivery, Minimum delivery, Total entry capacity, Amount of total entry capacity

**EU Storage Withdrawal / GWh/d**

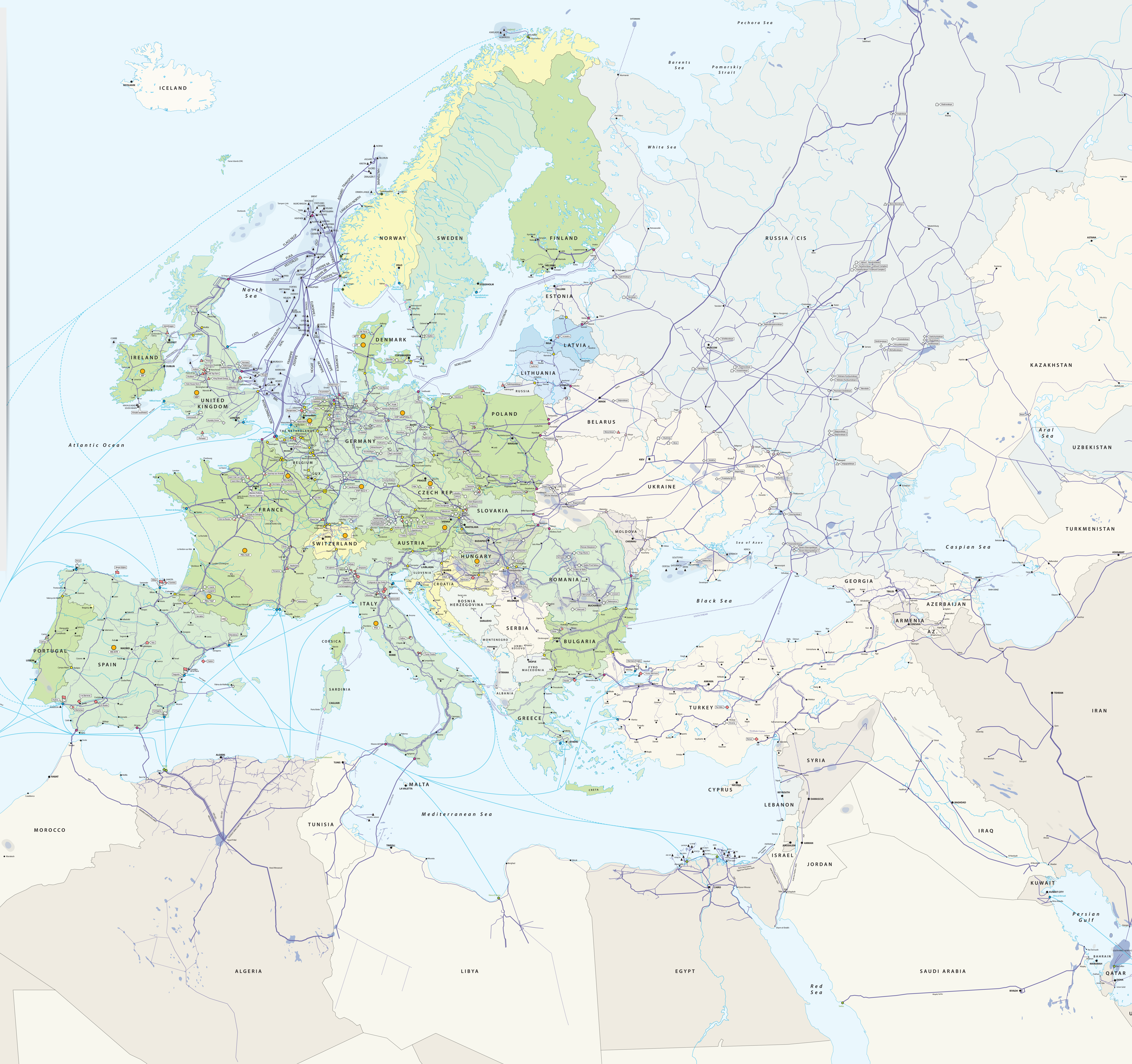
Key: Maximum withdrawal / injection, Minimum stock level, Minimum stock level, Technical Capacity, Amount of Technical Capacity

**EU Storage Injection / GWh/d**

Key: Maximum withdrawal / injection, Minimum stock level, Minimum stock level, Technical Capacity, Amount of Technical Capacity

**EU Storage Stock Level / GWh**

Key: Maximum withdrawal / injection, Minimum stock level, Minimum stock level, Technical Capacity, Amount of Technical Capacity



| Country        | Transmission | Storage | LNG | Production | Demand |
|----------------|--------------|---------|-----|------------|--------|
| Austria        | ...          | ...     | ... | ...        | ...    |
| Belgium        | ...          | ...     | ... | ...        | ...    |
| Bulgaria       | ...          | ...     | ... | ...        | ...    |
| Croatia        | ...          | ...     | ... | ...        | ...    |
| Czech Republic | ...          | ...     | ... | ...        | ...    |
| Denmark        | ...          | ...     | ... | ...        | ...    |
| Estonia        | ...          | ...     | ... | ...        | ...    |
| Finland        | ...          | ...     | ... | ...        | ...    |
| France         | ...          | ...     | ... | ...        | ...    |
| Germany        | ...          | ...     | ... | ...        | ...    |
| Greece         | ...          | ...     | ... | ...        | ...    |
| Hungary        | ...          | ...     | ... | ...        | ...    |
| Ireland        | ...          | ...     | ... | ...        | ...    |
| Italy          | ...          | ...     | ... | ...        | ...    |
| Latvia         | ...          | ...     | ... | ...        | ...    |
| Lithuania      | ...          | ...     | ... | ...        | ...    |
| Luxembourg     | ...          | ...     | ... | ...        | ...    |
| Netherlands    | ...          | ...     | ... | ...        | ...    |
| Poland         | ...          | ...     | ... | ...        | ...    |
| Portugal       | ...          | ...     | ... | ...        | ...    |
| Romania        | ...          | ...     | ... | ...        | ...    |
| Serbia         | ...          | ...     | ... | ...        | ...    |
| Slovakia       | ...          | ...     | ... | ...        | ...    |
| Slovenia       | ...          | ...     | ... | ...        | ...    |
| Spain          | ...          | ...     | ... | ...        | ...    |
| Sweden         | ...          | ...     | ... | ...        | ...    |
| Switzerland    | ...          | ...     | ... | ...        | ...    |
| United Kingdom | ...          | ...     | ... | ...        | ...    |
| Guinea-Bissau  | ...          | ...     | ... | ...        | ...    |
| Nigeria        | ...          | ...     | ... | ...        | ...    |