

# SYSTEM DEVELOPMENT MAP 2015 / 2016

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The System Development Map 2015 / 2016 presents existing infrastructure & capacity and planned infrastructure and capacity outlook from the perspective of the year 2016. The respective data are based on the TNSDF 2017, GIE 2015 Storage Map, GIE 2015 LNG Map and ENTSOG 4 SQM 2014-2016 (\*) (unless respective ENTSOG members provided their own data). The 2015 / 2016 historical data on demand & supply, incl. the winter 2015-2016, are based on data from the TSOs and GIE AGS and AGS+ Platforms. The Country Profiles present transmission capacities between countries (after application of the Laser-of-rules, storage & LNG capacities according to the interconnection to the country's transmission system) and installed gas-fired power generation capacity. The gas production reflects the maximum deliverability achieved. The demand data represent actual country demand for the respective days/months. 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.

### KEYS

**Countries**

- ENTSOG Member Countries
- ENTSOG Associated Partner
- ENTSOG Observer
- Other Countries

**Transport by pipeline**

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

**Gas Reserve areas**

- gas field
- drilling platform

**Gas storage facilities**

- Acquirer
- Salt cavity - cavern
- Depleted gas field
- on shore / offshore
- Other type
- Unknown

**ETX** Gas storage projects

**Map points**

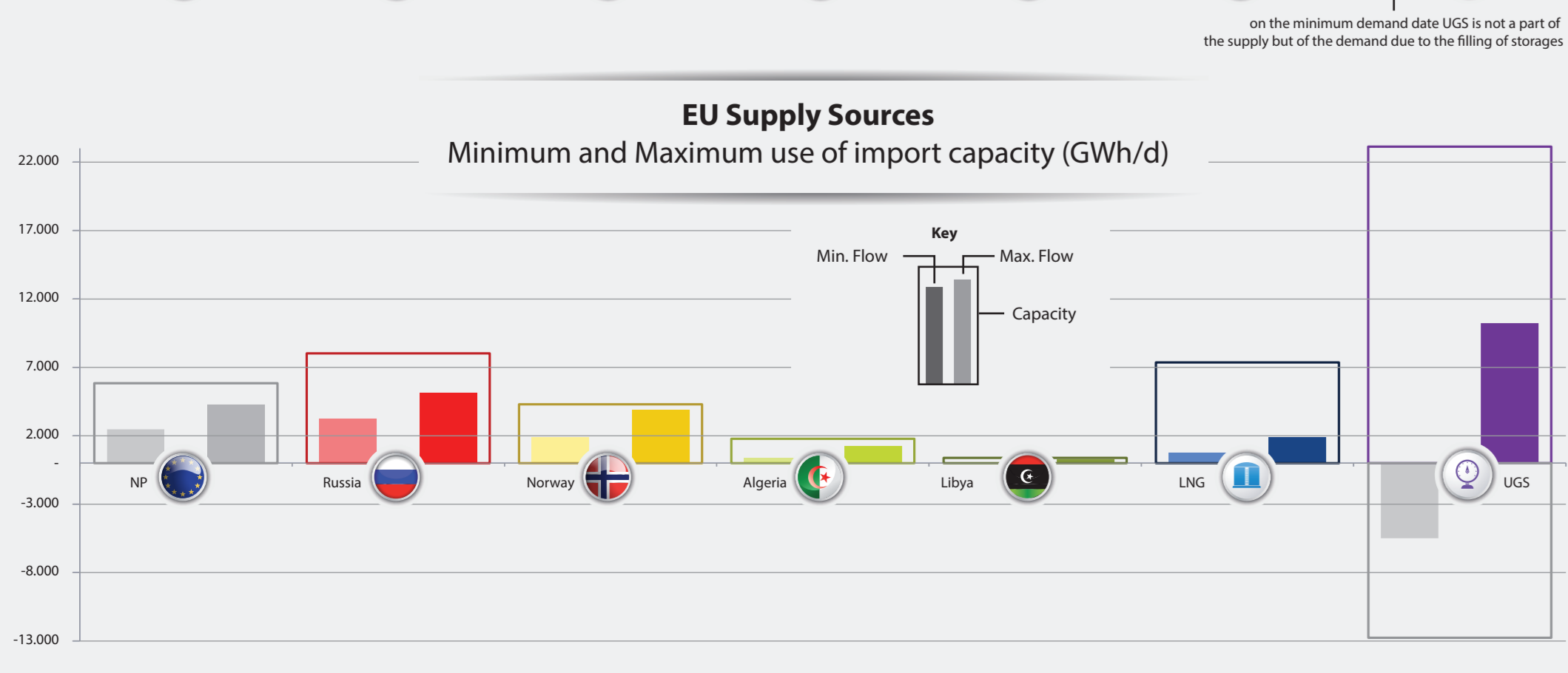
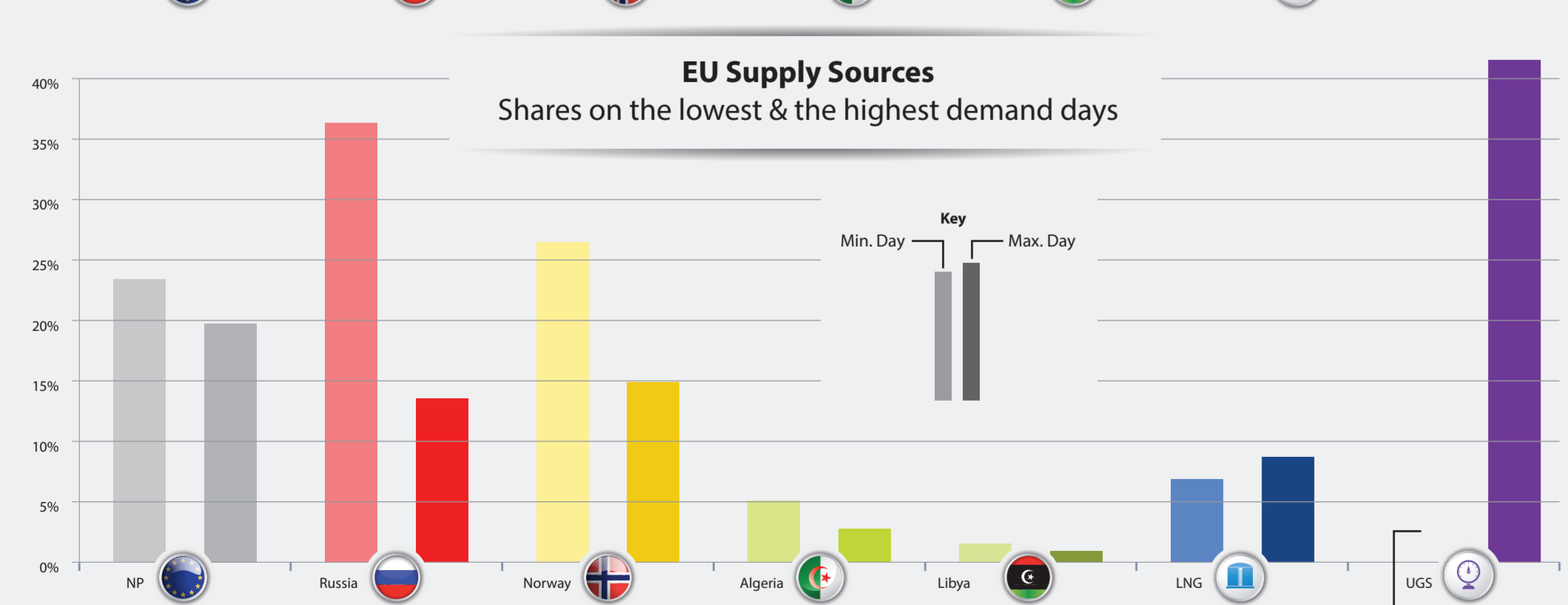
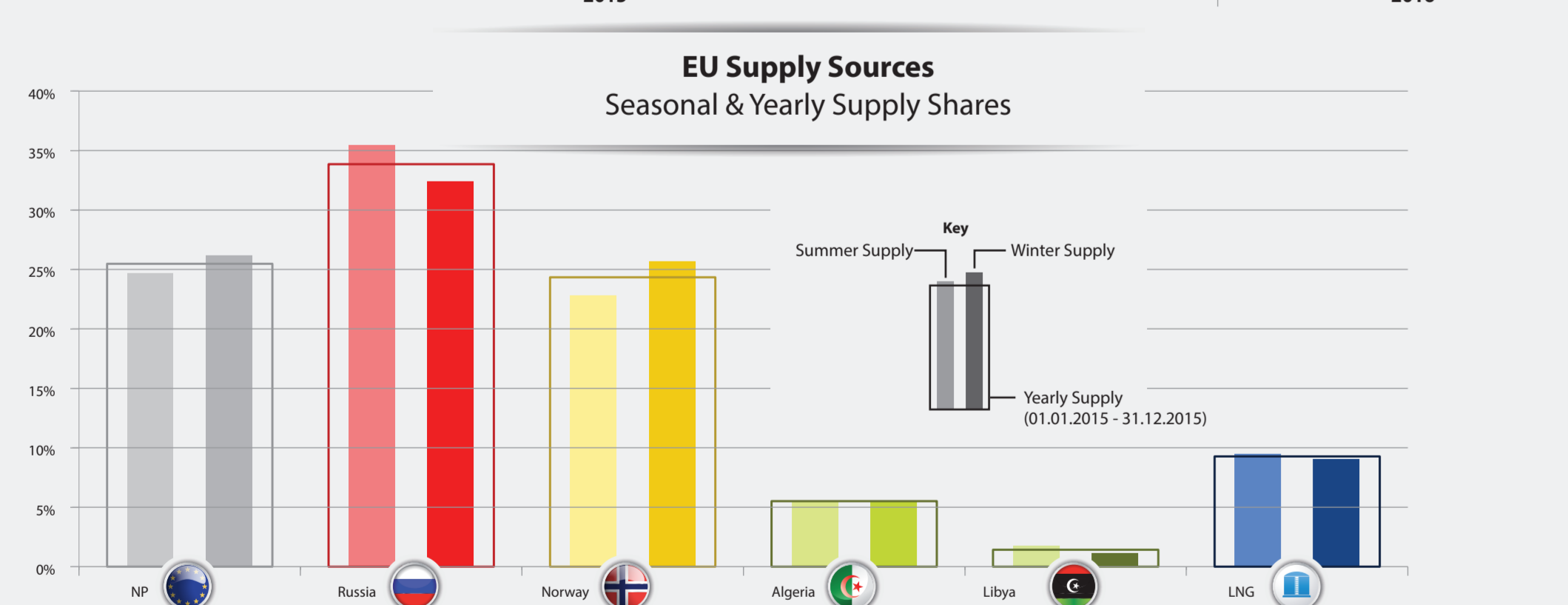
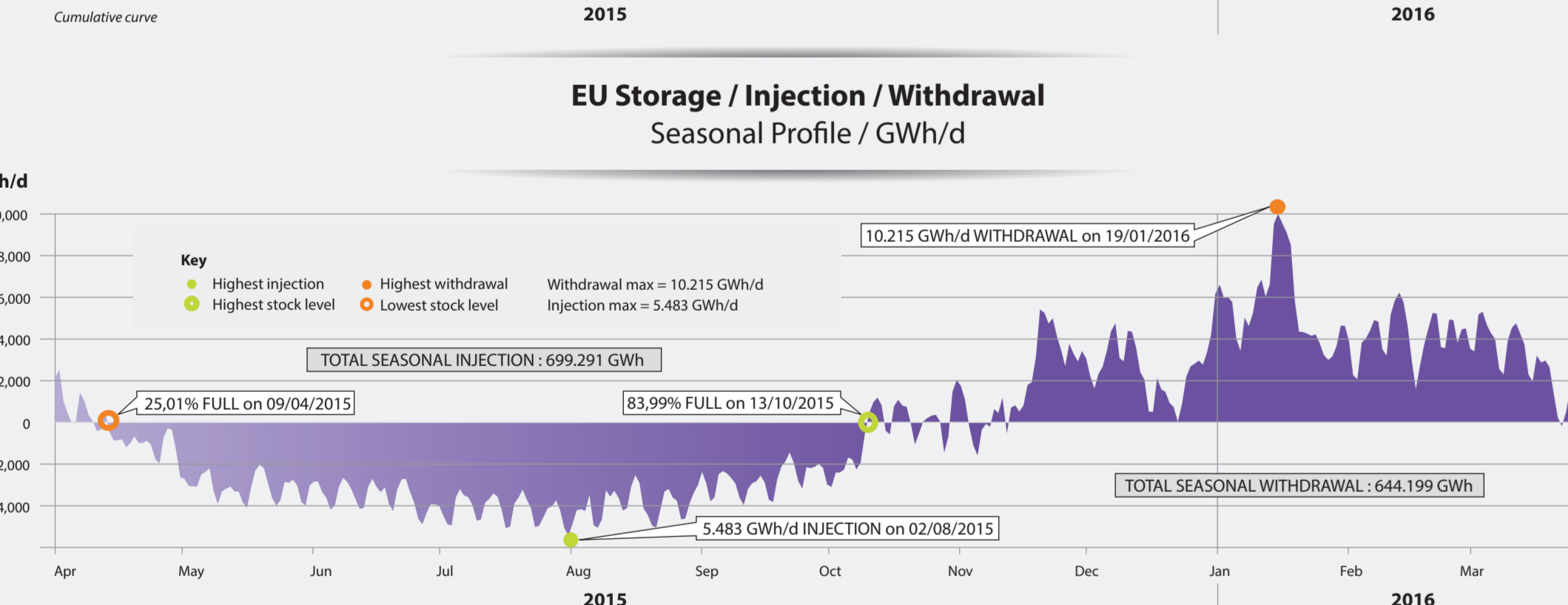
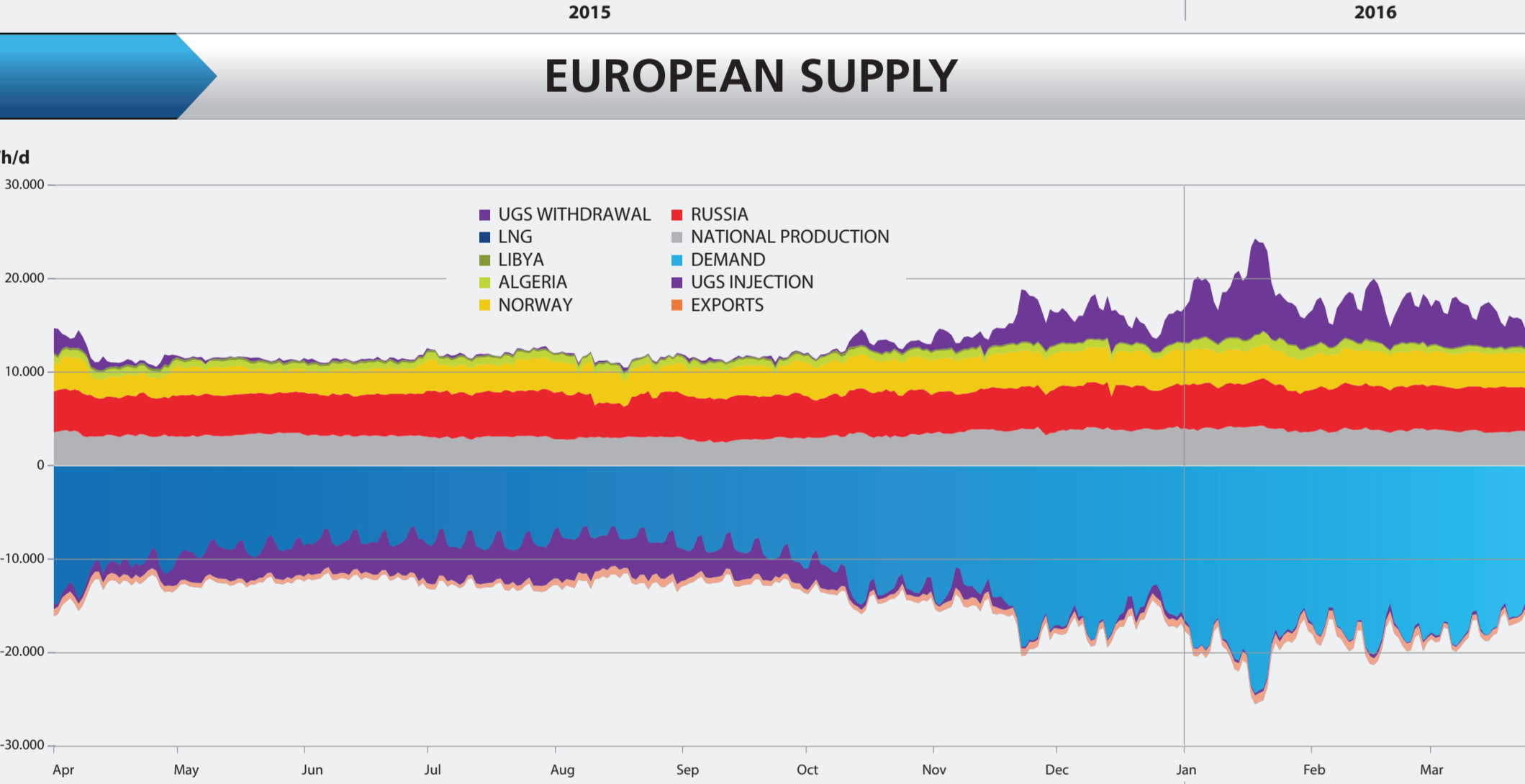
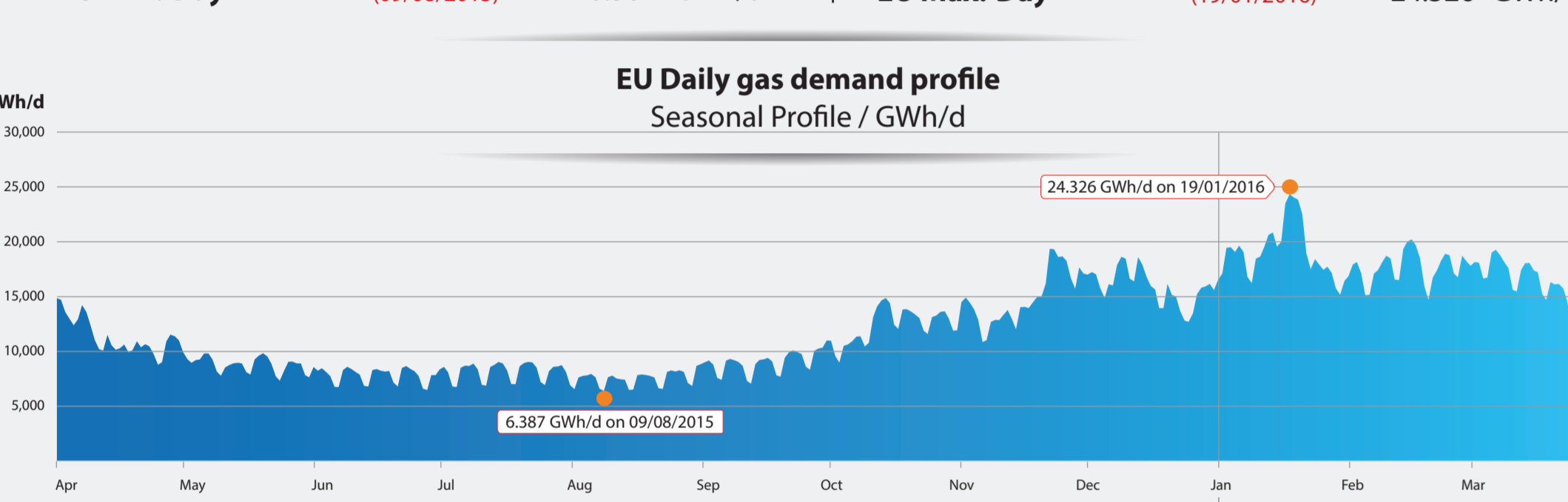
- Trading Points / Market Areas
- Intra-country or intra balancing zone points
- Cross-border interconnection point within Europe or export point to non-EU country
- Cross-border interconnection point with third country (import)
- LNG Terminal entry point into transmission system
- LNG Export Terminal
- Small scale LNG liquefaction facilities
- Third country cross border interconnection point
- Cross-Border Europe Under construction or Planned
- Cross-Border third country import/export Under construction or Planned
- LNG Import Terminal Under construction or Planned
- LNG Export Terminal Under construction or Planned
- Small scale LNG liquefaction facilities Under construction or Planned

**Data keys**

- NATIONAL PRODUCTION
- RUSSIA
- NORWAY
- ALGERIA
- LIBYA
- UGS
- LNG

### EUROPEAN DEMAND

|                                 |               |
|---------------------------------|---------------|
| EU Total 2015                   | 4,521,456 GWh |
| EU Apr 2015 - Sep 2015 (Summer) | 1,603,319 GWh |
| EU Oct 2015 - Mar 2016 (Winter) | 2,926,828 GWh |
| EU Min. Day (09/08/2015)        | 6,387 GWh/d   |
| EU Max. Day (19/01/2016)        | 24,326 GWh/d  |



### Import & Transmission Capacity 2016 (GWh/d)

| Imports |       |       |     | Cross-Border |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
|---------|-------|-------|-----|--------------|------|----|-------|-------|-----|-----|-------|-------|-------|-----|-----|-----|-----|-----|-----|----|-----|-----|-------|-----|----|-----|-----|----|-------|-----|
| TO      | DZ    | LY    | NO  | RU           | TR   | AT | BE    | BG    | CH  | CZ  | DG    | DK    | EE    | ES  | FR  | GB  | HU  | IT  | LT  | LV | NL  | PL  | PT    | RO  | RU | SI  | SK  | UK |       |     |
| AT      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| BE      | 515   |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| BG      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| CH      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| CZ      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| DG      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| DK      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| EE      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| ES      | 733   | 1910  |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| FR      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| GB      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| GR      | 410   | 576   | 249 |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| HU      | 150   |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| IE      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| IT      | 1072  | 387   |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| LT      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| LV      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| MD      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| NL      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| NO      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| PL      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| PT      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| RO      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| RU      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| SI      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| SK      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| SE      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| SM      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| TR      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| UA      |       |       |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| UK      | 1,836 | 1,499 |     |              |      |    |       |       |     |     |       |       |       |     |     |     |     |     |     |    |     |     |       |     |    |     |     |    |       |     |
| Total   | 1792  | 4593  | 387 | 3790         | 7246 | 49 | 2,023 | 2,428 | 600 | 823 | 1,829 | 2,019 | 1,602 | 179 | 258 | 369 | 493 | 732 | 270 | 46 | 177 | 248 | 1,509 | 931 | 80 | 719 | 210 | 75 | 2,467 | 978 |

Key: DZ: market area GAZPOOL; LY: market area LIKHT; NO: market area NORSEAS; RU: market area RUSSIA; TR: market area TURKEY; AT: market area Austria; BE: market area Belgium; BG: market area Bulgaria; CH: market area Switzerland; CZ: market area Czech Republic; DG: market area Denmark; DK: market area Denmark; EE: market area Estonia; ES: market area Spain; FR: market area France; GB: market area Great Britain; HU: market area Hungary; IT: market area Italy; LT: market area Lithuania; LV: market area Latvia; NL: market area Netherlands; PL: market area Poland; PT: market area Portugal; RO: market area Romania; RU: market area Russia; SI: market area Slovenia; SK: market area Slovakia; UK: market area United Kingdom.



| Country        | Production (GWh/d) | Imports (GWh/d) | Exports (GWh/d) | Storage (GWh) | LNG (GWh/d) | UGS (GWh/d) | Other (GWh/d) |
|----------------|--------------------|-----------------|-----------------|---------------|-------------|-------------|---------------|
| Austria        | 1170               | 0               | 0               | 0             | 0           | 0           | 0             |
| Belgium        | 0                  | 515             | 0               | 0             | 0           | 0           | 0             |
| Bosnia-Herz.   | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Bulgaria       | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Croatia        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Czech Republic | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Denmark        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Estonia        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Finland        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| France         | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Germany        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Greece         | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Hungary        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Ireland        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Italy          | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Latvia         | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Lithuania      | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Luxembourg     | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Netherlands    | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Poland         | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Portugal       | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Romania        | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Slovakia       | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Slovenia       | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Spain          | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Sweden         | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| Switzerland    | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |
| United Kingdom | 0                  | 0               | 0               | 0             | 0           | 0           | 0             |