



Building and monitoring security of gas supply in the EU

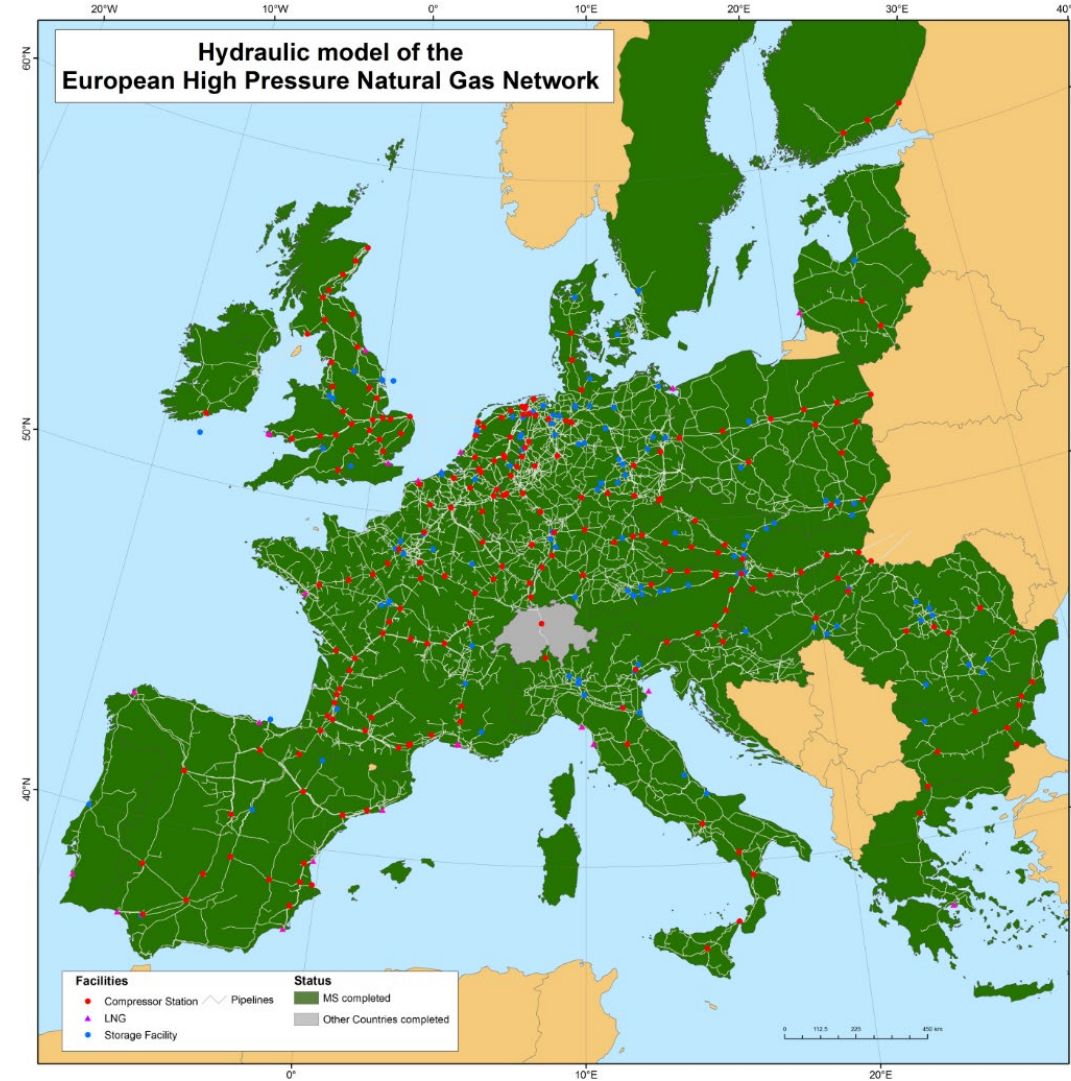
JRC. C.3 – Energy Security Distribution and Markets

UNECE 10th session of experts on gas

Geneva, 23 March 2023

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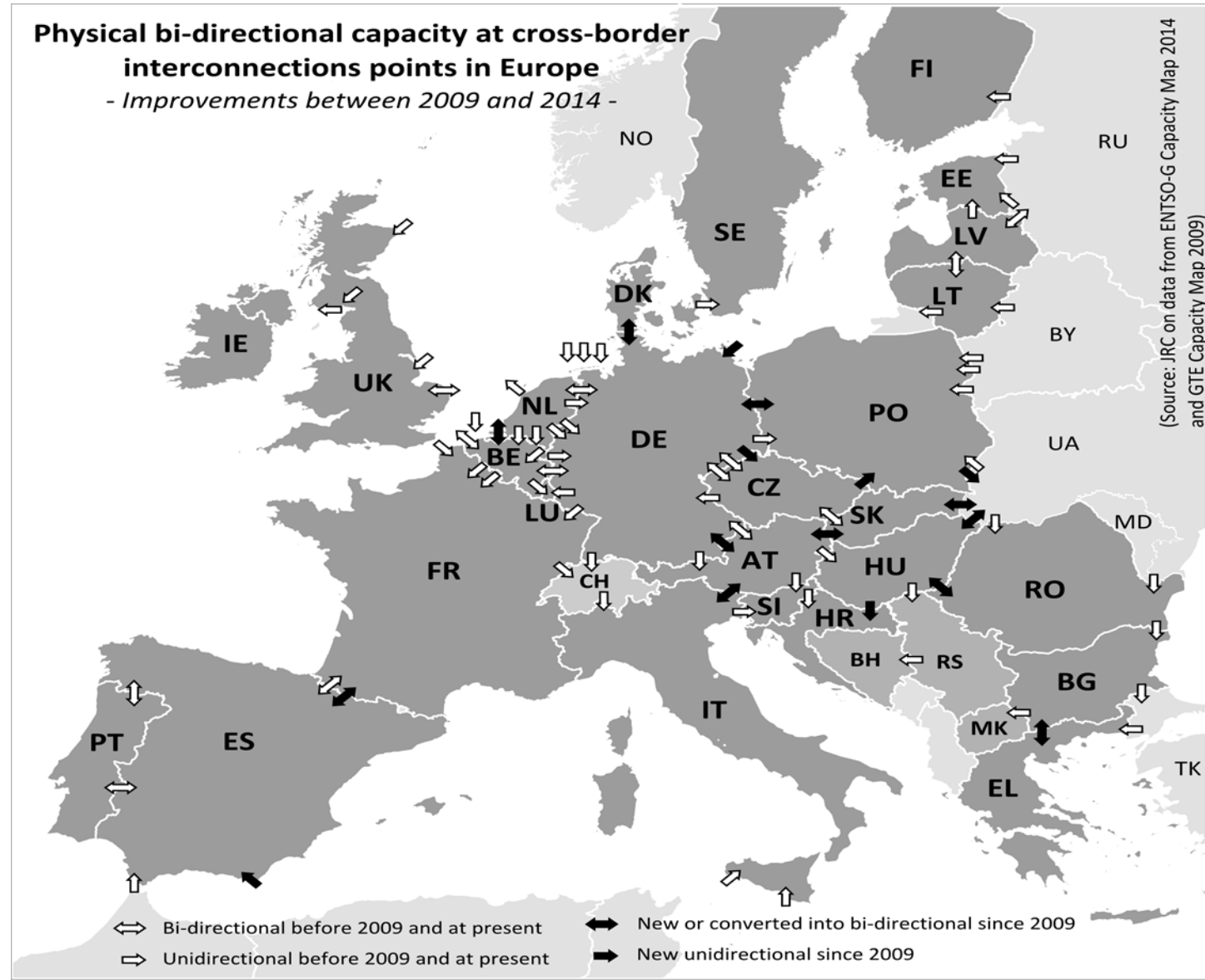
- **Building Security of Gas Supply (SoGS) in the EU**
 - Regulation 994/2010 on SoGS
 - New Regulation 2017/1938 on SoGS
 - Initiatives developed in the period 2022 - 2023
- **Monitoring key flows and volumes concerning SoGS**



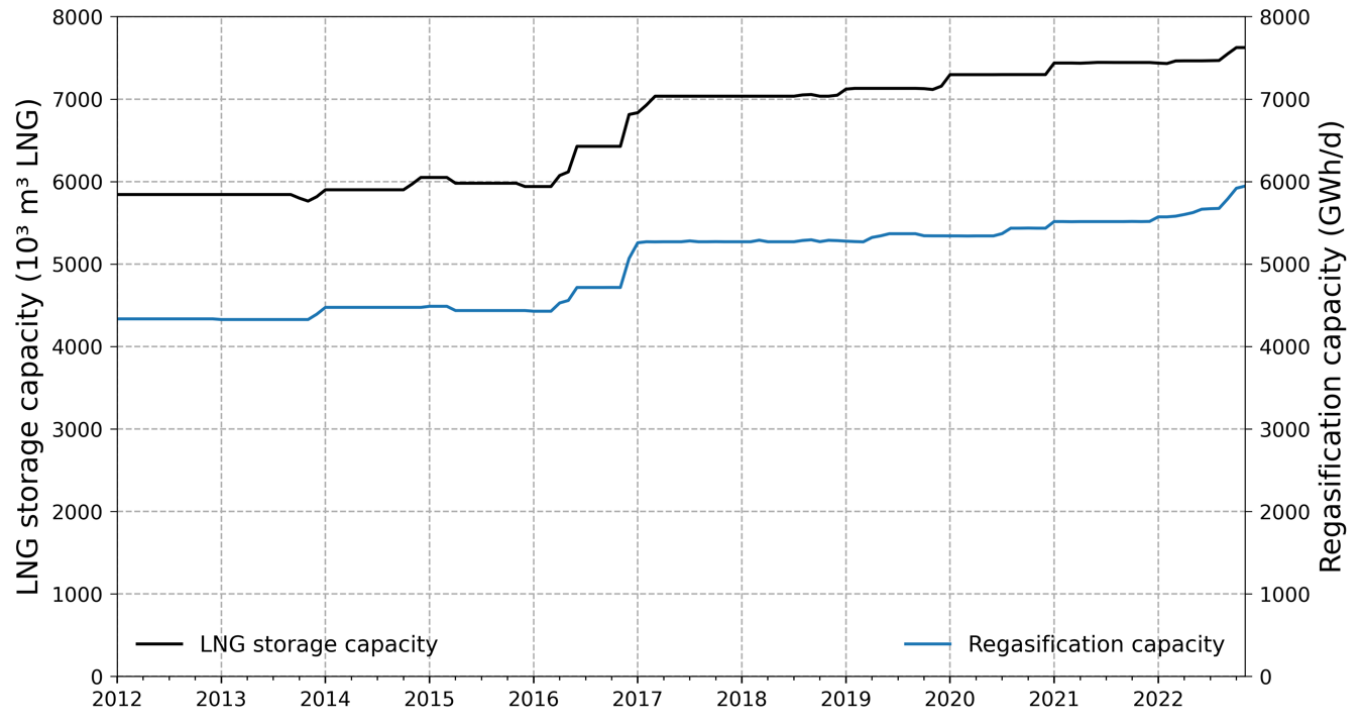
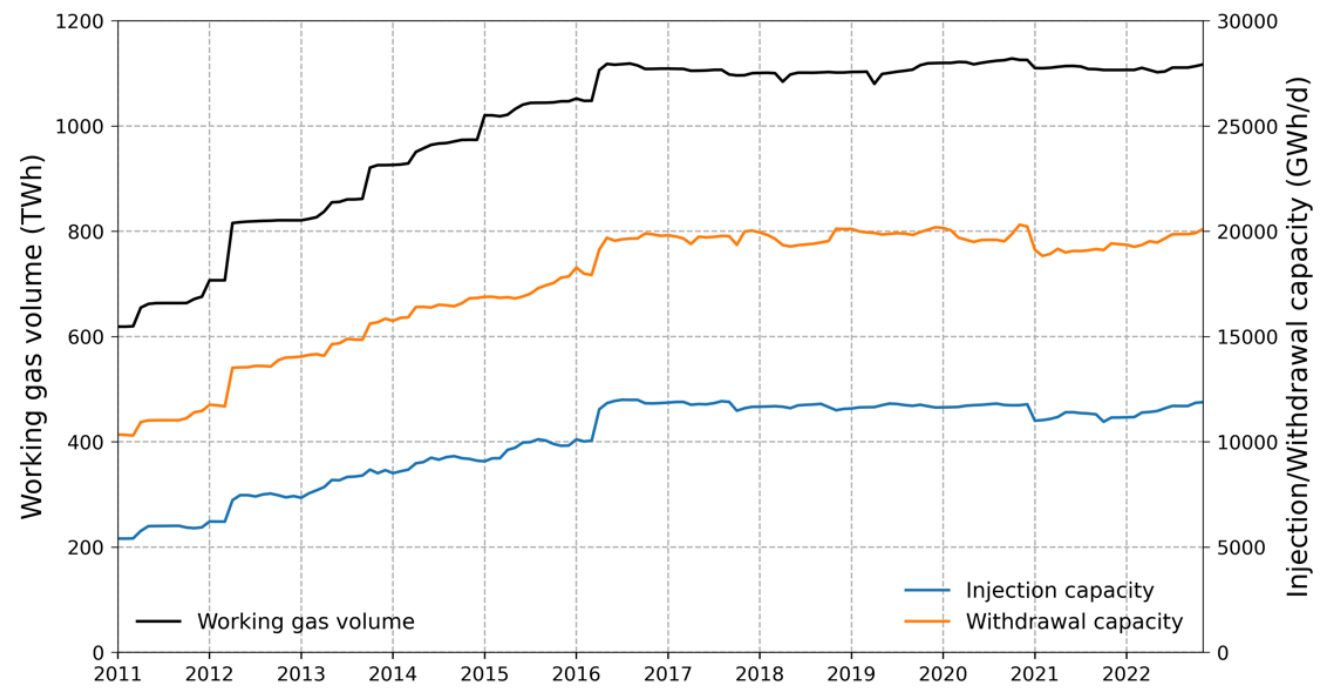
Regulation (EU) 994/2010 & 2017/1938

- Key elements
 - National Risk Assessments + Preventive Action Plan and Emergency Plan
 - Standards (infrastructure and Supply)
 - Protected Customers and solidarity
 - Obligation of reverse flows at all cross-border points
 - Monitoring role of the European Commission
- Regulation (EU) 2017/1938
 - Further development of regional aspects → mandatory Common (Regional) Risk Assessments
 - Further development of the concept of solidarity; development of bilateral solidarity agreements

Improvements / extensions in the EU network



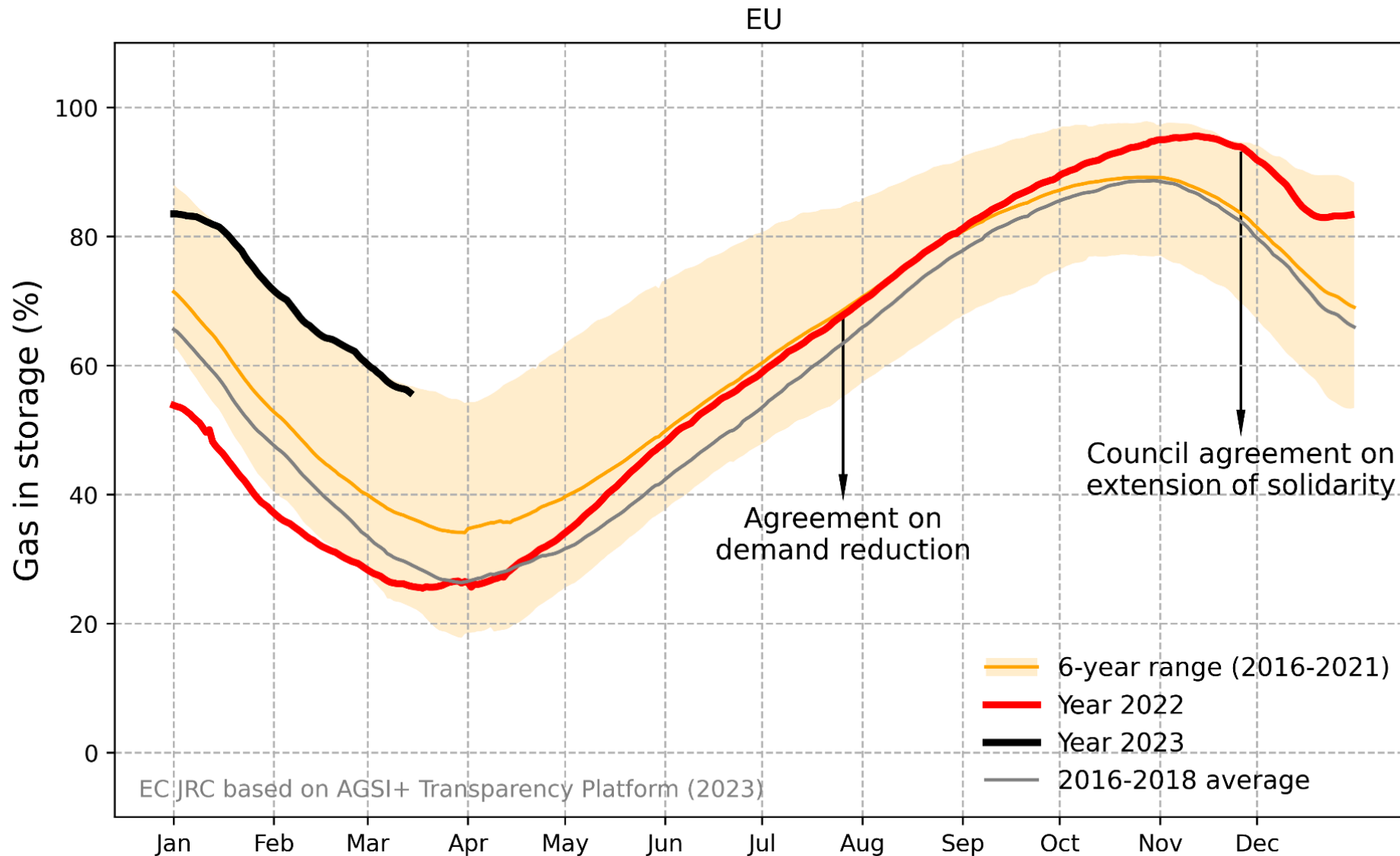
Improvements / extensions in the EU network



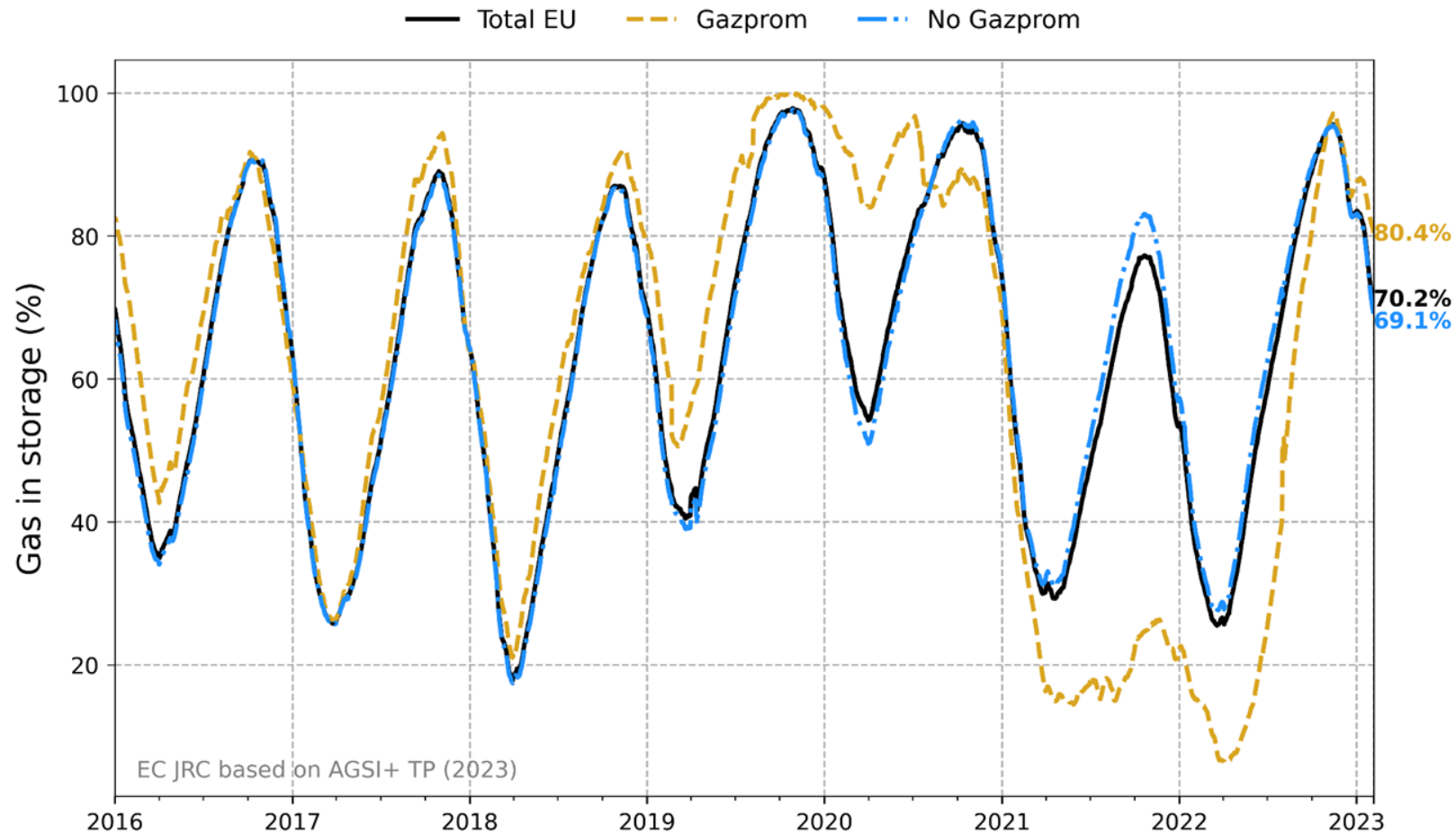
Building Security of Gas Supply the EU

- Regulation (EU) 2022/1032 with regard to gas storage
- Regulation (EU) 2022/1369 on coordinated gas demand reduction
- Regulation (EU) 2022/2576 enhancing solidarity
 - First dedicated Dry-run exercise on EU gas emergency
- Proposal to extend coordinated gas demand reduction until 31-03-2024 (just published; 20-03-2023)

Monitoring the SoGS in the EU: Storages

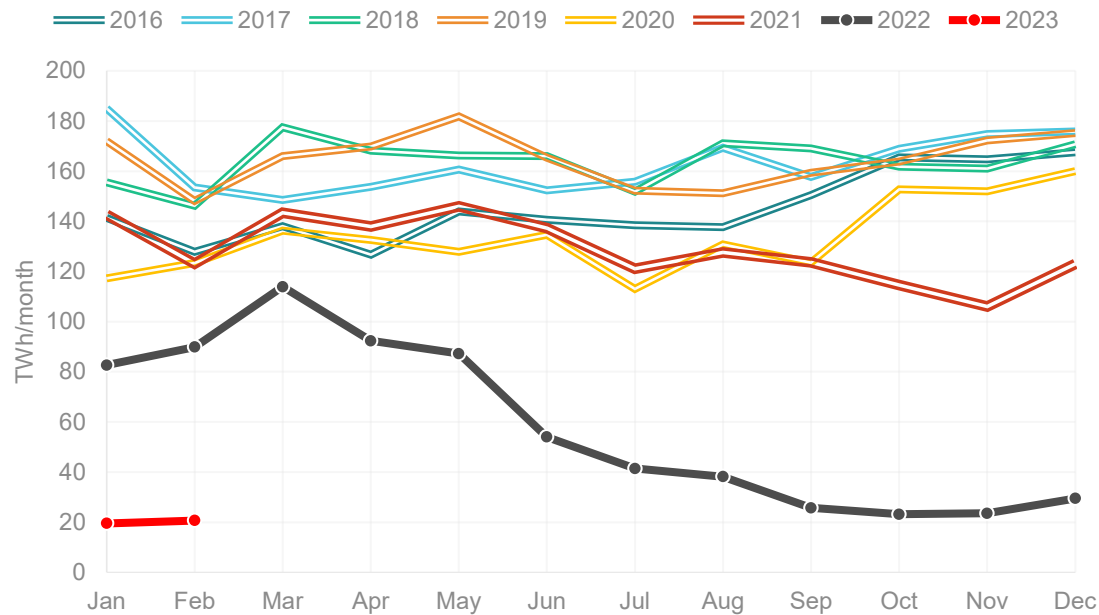


Monitoring the SoGS in the EU: Gazprom storages

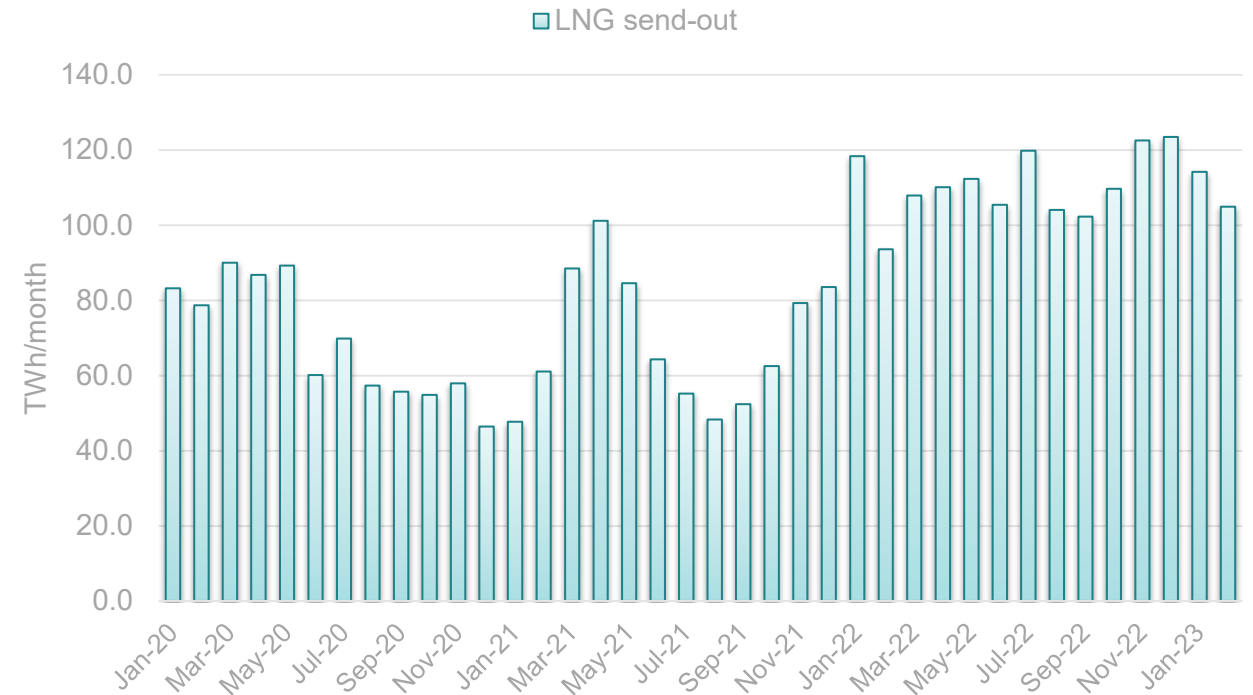


Monitoring the gas SoS in the EU: LNG

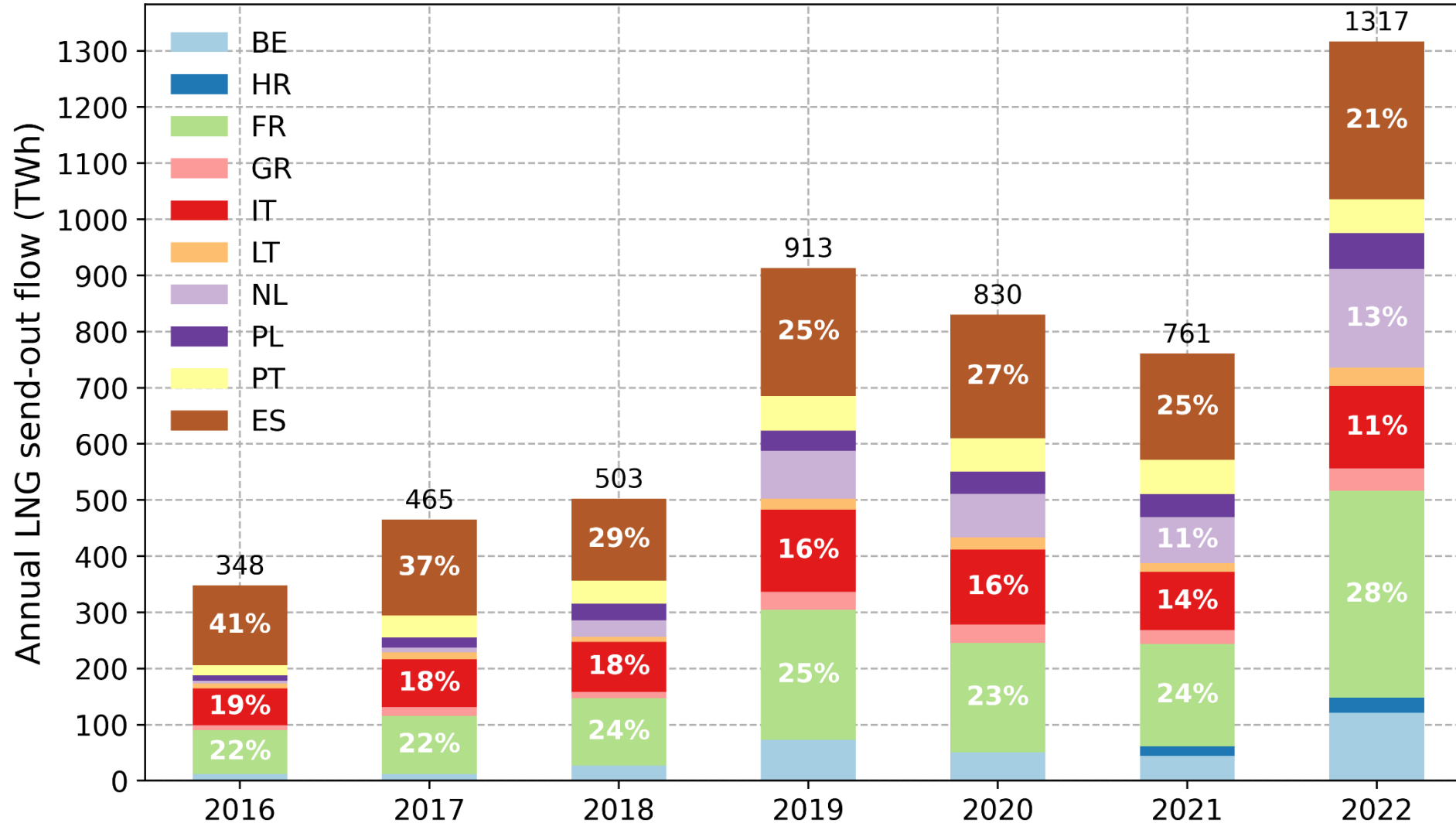
Gas flows from Russia (TWh/month)



LNG send-out (TWh/month)

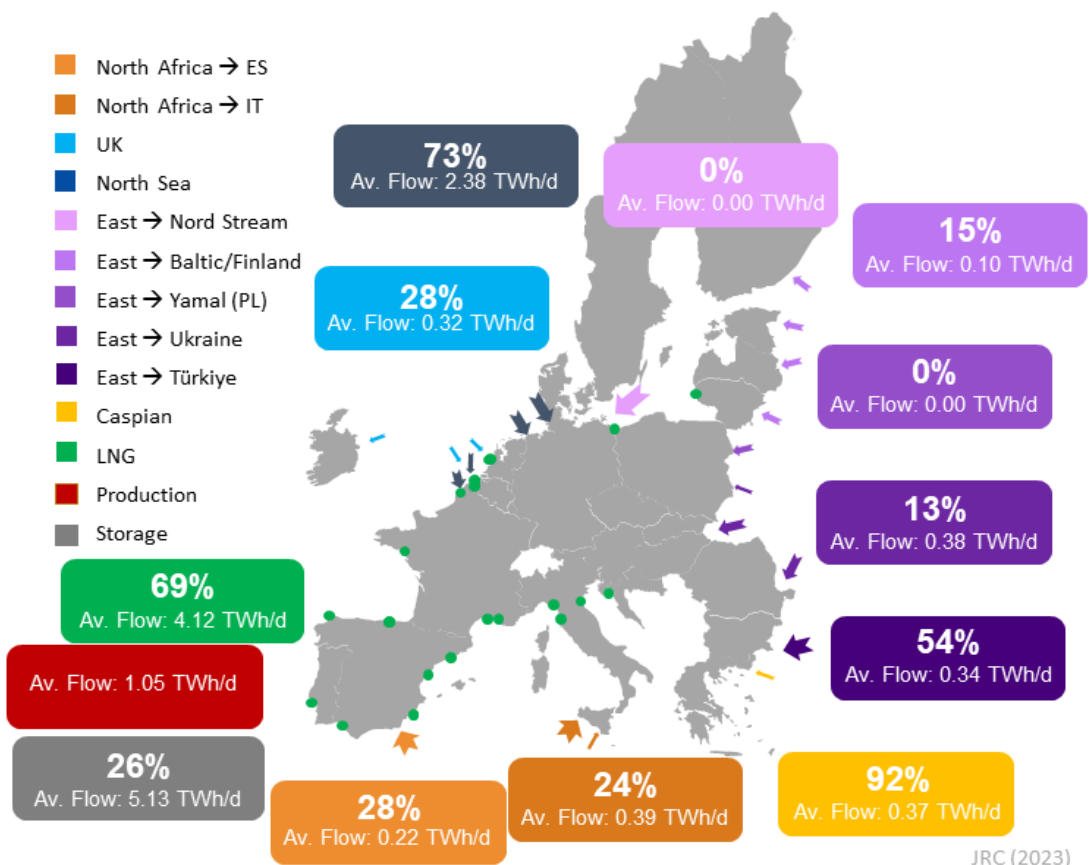


Monitoring the gas SoS in the EU: LNG

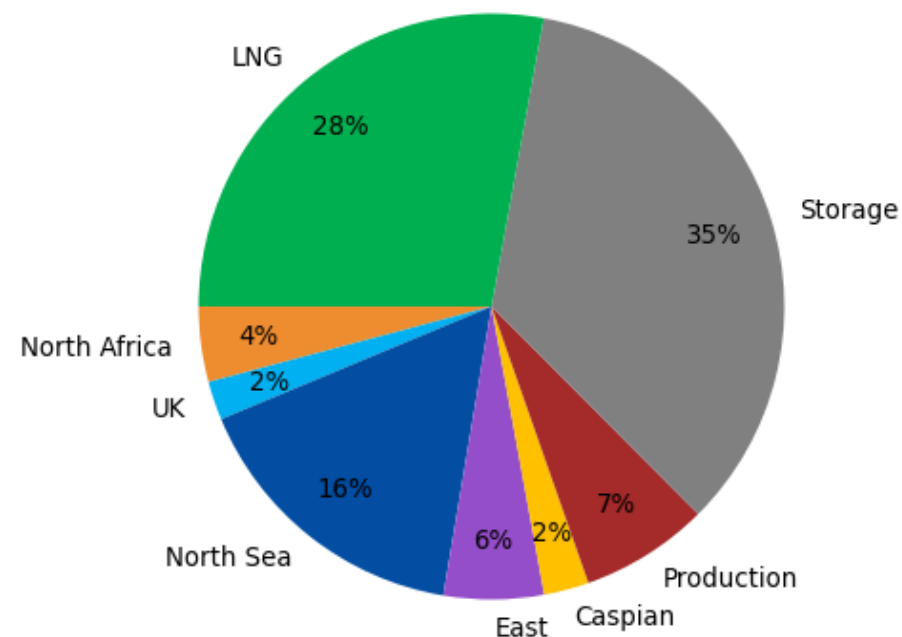


Monitoring the gas SoS in the EU: gas flows

Week 1-7 March 2023



Share of inflow

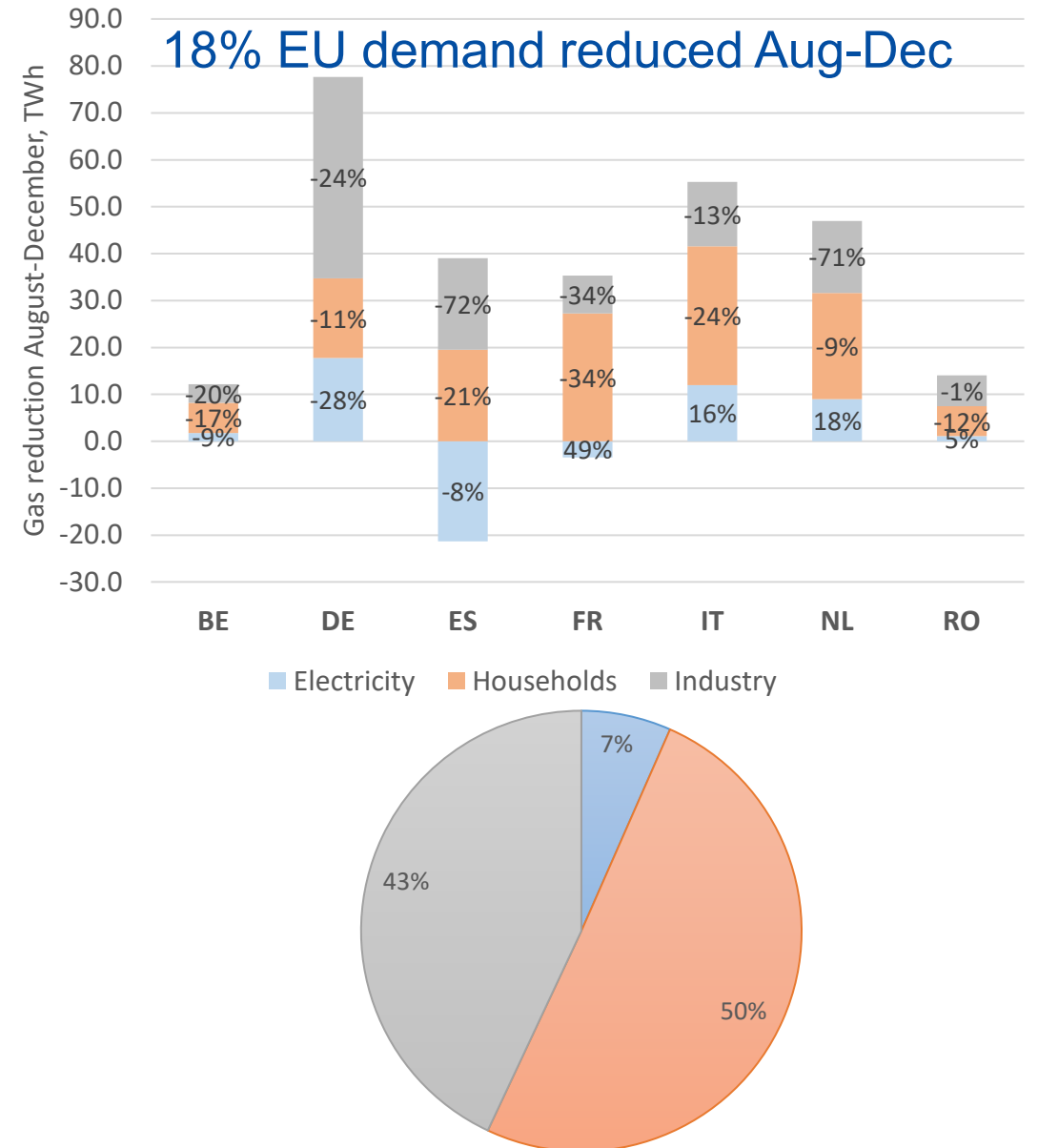


Utilization capacity (%) and average daily flows (TWh/d)

EU Demand reduction by sector

- **15% voluntary gas demand reduction** from August 2022-March 2023 in comparison with same period of previous 5 years.
- Mandatory reduction if EU enters in **alert level** (significant deterioration of the gas supply situation occurs but the market is still able to manage)
- Demand reduction August - December ~ 18 %

Save gas for a safe winter



Dry run exercise

- Participants were: National authorities of the MS, transmission system operators (gas and electricity), European Commission and ENTSO
- MSs were put in an extreme situation where some MS were in need of solidarity.
 - **Objective**
 - To test and improve the capacity of the EU for reacting to gas emergencies and solidarities requests.



Conclusions

- Over more than a decade the EU has developed legislation and taken steps to increase significantly SoGS
- The EU gas system has shown its resilience over the last 1 ½ year
- Usefulness of public data available in Transparency Platforms (ENTSOOG, GIE) and webpages of operators

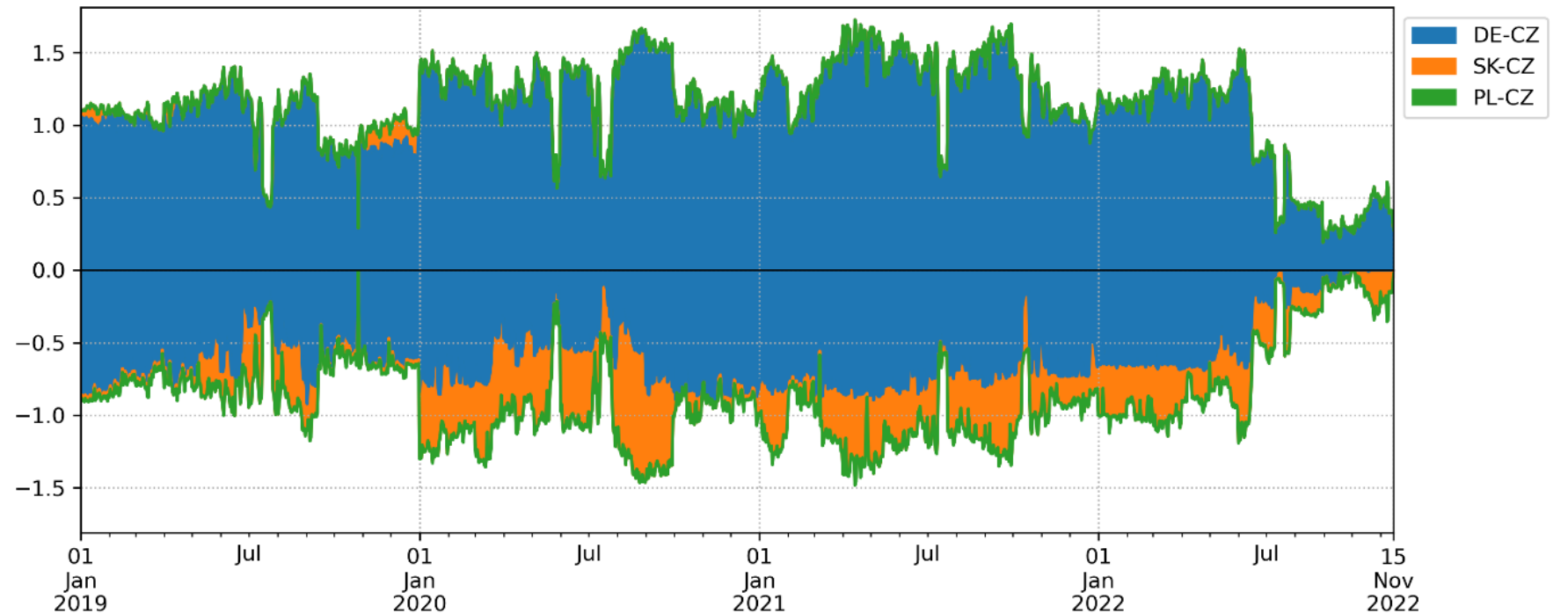
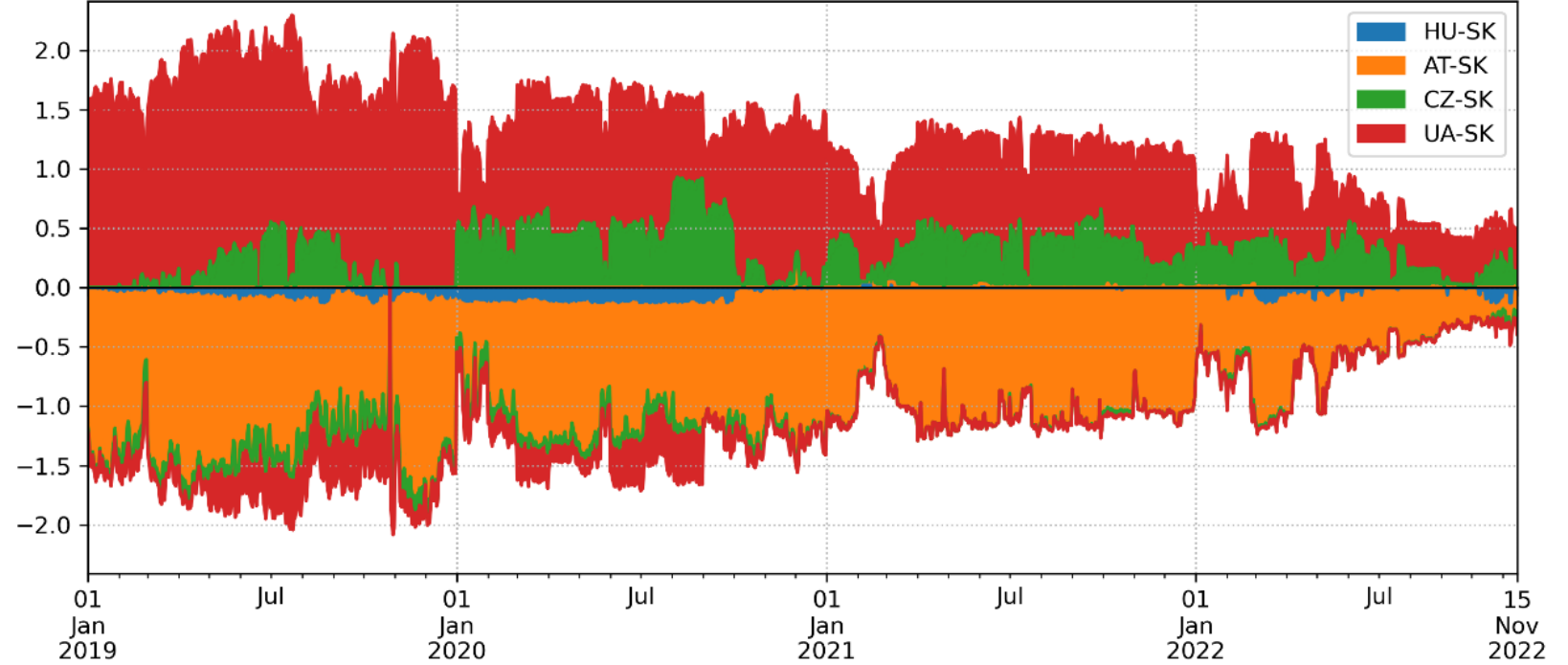
Thank you



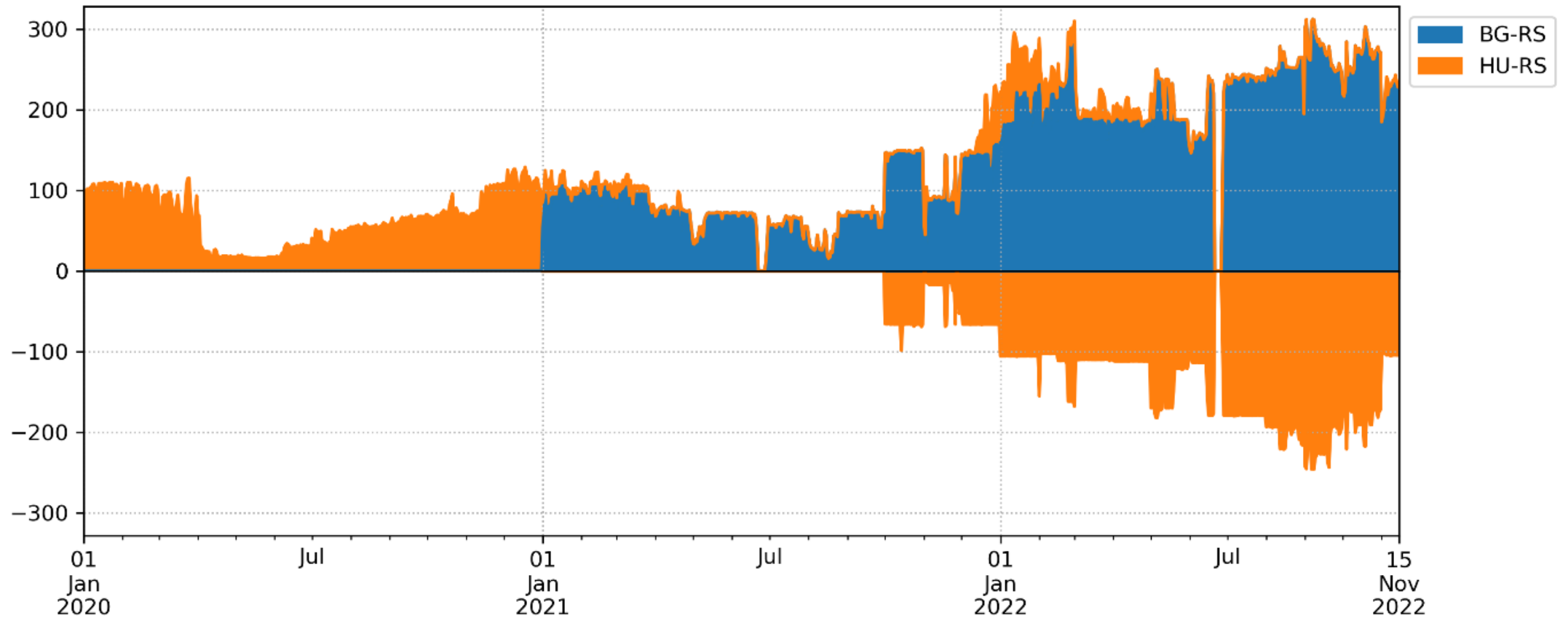
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Additional slides



Additional slides



Additional slides

