Brexit’s impact on energy markets

Brexit and Security of Supply for the UK and Ireland

Dr Thierry Bros
Senior Research Fellow

Main steps of European gas liberalisation

- 1986: Privatisation of British Gas
- 1996: Establishment of the Network Code (TPA) and NBP
- 1998: Complete abolition of Centrica marketing monopoly
- 1998: Start up of the Interconnector
- 1999: Establishment of the Zeebrugge Hub

- 1998: Directive concerning common rules for the internal market (following telecom deregulation)
- 2007: Third energy package
- 2009: Art 194 of the Lisbon Treaty, carefully crafted compromise between national sovereignty governing energy mix, exploitation of natural resources and energy taxation and a shared EU competence for other areas
- 2015: Energy Union?

- 2017-2019: Brexit?
Energy Union
Dream or a reasonable ambition?

- The biggest change since the 1951 Coal and Steel Community Treaty
  - http://ec.europa.eu/avservices/play.cfm?ref=1098040&vidlang=EN+EN&off=1
  - Pool resources, connect infrastructures, diversify energy sources, reduce energy dependence and unite in order to strengthen EU negotiating power vis-à-vis third countries

  ❖ Energy security, solidarity and trust
    - The Commission will assess options for voluntary demand aggregation mechanisms for collective purchasing of gas during a crisis and where Member States are dependent on a single supplier
    - When the conditions are right, the EU will consider reframing the energy relationship with Russia based on a level playing field in terms of market opening, fair competition, environmental protection and safety, for the mutual benefit of both sides

  ❖ A fully integrated energy market
    - Citizens take ownership of the energy transition and benefit from new technologies to reduce their bills

  ❖ Energy efficiency contributing to moderation of demand
    - 2030 indicative target (EU level): at least 27% for improving energy efficiency (compared to projections)
    - NEW PROPOSAL (30/11/2016): binding EU-wide target of 30% for energy efficiency by 2030

  ❖ Decarbonisation of the economy
    - 40% cut in greenhouse gas emissions compared to 1990 levels
    - The cornerstone of Europe’s climate policy is a well-functioning EU Emissions Trading System
    - Becoming the number one in renewables (27% for the share of renewable energy in the mix in 2030)

  ❖ Research, Innovation and Competitiveness
Markets become price-correlated due to network unbundling

Source: thierrybros.com, company data
Traded volume development

TTF now European largest hub

Source: Heather
## 2 major gas shocks with completely different outcomes

<table>
<thead>
<tr>
<th>Year</th>
<th>Fuel</th>
<th>Event</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1991</td>
<td>Oil</td>
<td>Build-up to Gulf War</td>
<td>IEA strategic stocks release</td>
</tr>
<tr>
<td>2005</td>
<td>Oil</td>
<td>Hurricanes Katrina &amp; Rita in US Gulf of Mexico</td>
<td>IEA strategic stocks release</td>
</tr>
<tr>
<td>2011</td>
<td>Oil</td>
<td>Libya: disruption of supplies</td>
<td>IEA strategic stocks release</td>
</tr>
<tr>
<td>2011</td>
<td>Gas</td>
<td>Fukushima: 7% of global LNG rerouted to Japan</td>
<td>Market answer: higher prices</td>
</tr>
<tr>
<td>2015</td>
<td>Gas</td>
<td>Groningen cap: loss of 9% of European demand</td>
<td>Market answer: lower prices</td>
</tr>
</tbody>
</table>
Brexit’s impact on gas markets

- **Policy**
  - For SoS, UK needs to reshape its energy diplomacy

- **Regulatory**
  - 3 EU-UK interconnectors?

- **Markets**
  - NBP premium and volatility to increase versus TTF
  - Independent trading houses, Norway and LNG producers could take advantage of the increased NBP premium & volatility vs TTF

Source: ENTSOG, thierrybros.com
**Brexit timing: a lengthy uncertainty**

**H1 17**
- Triggering article 50 by the UK – 29 March 2017
- Negotiations guidelines adopted by the European Council – 29 April 2017
- Commission presented to the Council a recommendation to open the negotiations – 3 May 2017
- Council authorised start of the negotiations by adopting first set of negotiating directives – 22 May 2017
- **Starting of negotiations – 19 June 2017**

**Q4 18 – Q1 19**
- Union negotiator will present an agreement proposal to the Council and the European Parliament, taking into account the framework of the future relationship of the UK with the EU
- European Parliament must give its consent, by a simple majority vote (incl. UK Members of the European Parliament)
- Council will conclude the agreement, by a vote of strong qualified majority
- UK must also ratify the agreement according to its own constitutional arrangements

**After leaving**
- “To succeed, we need to devote the first phase of negotiations exclusively to reaching an agreement on the principles of the exit” Michel Barnier at the plenary session of the European Parliament (5 April 2017)
- “Bilateral agreements between the UK and one or more remaining EU countries, would be in breach of the EU Treaties” EU Parliament
- **Intergovernmental agreements (UK-IR, UK-BE & UK-NL) to be renegotiate. As one or as 3?**
Remember pre-markets time?

- On the 22\textsuperscript{st} November 2005, at 170 p/th only 58\% of the Interconnector “reverse” capacity was used.

- Licence obligations prevented Continental European gas companies to release gas at the beginning of Winter.

\textbf{Source: thierrybros.com, IUK}
IUK to balance markets

Source: IUK, thierrybros.com
Brexit’s impact on foreign dependency (1/2)

Source: net flows from BP Statistical Review June 2017, thierrybros.com (Norway foreign for UK alone)
Brexit’s impact on foreign dependency (2/2)

Total foreign dependency pre and post-Brexit

Source: JODI, thierrybros.com (Norway is foreign for all)
Brexit’s impact: storage

LNG optionality could help the UK (short of domestic storage & with unknowns in terms of using Continental storages)

Source: GIE, Eurogas, thierrybros.com
Irish options: IBP, NBP or TTF?
Brexit: already started!

Celtic Interconnector linking for the first time French and Irish electricity systems was awarded €4m grant from the European Commission on 28 June 2017

Source: INEA
Thank you