

Gas security and decarbonisation in Europe

Pierre Noël

EPRG, University of Cambridge

Brookings Institution, Washington, DC -- 21 October 2010



European Energy Policy

Brussels' version

1. Sustainability
2. Security of supply
3. Competitiveness

3 objectives are left
largely undefined

British government's version – *more precise*

1. Low-carbon energy
 2. Secure energy
 3. Affordable energy
-
- Undefined
- What are the trade-offs?

Messages

1. Europe's two main instruments (ETS & renewables subsidies) are at war with each other
2. Large-scale intermittent renewables create unmanageable uncertainty – at a very high cost
3. Abundant gas offers relatively cheap de-carbonisation option (by displacing coal)
4. We need
 - To make Russian gas contestable in central Europe
 - A 'rising floor' under the carbon price
 - Subsidies targeted at learning potential

Carbon price too low, too volatile

EUA price October 2004-April 2010

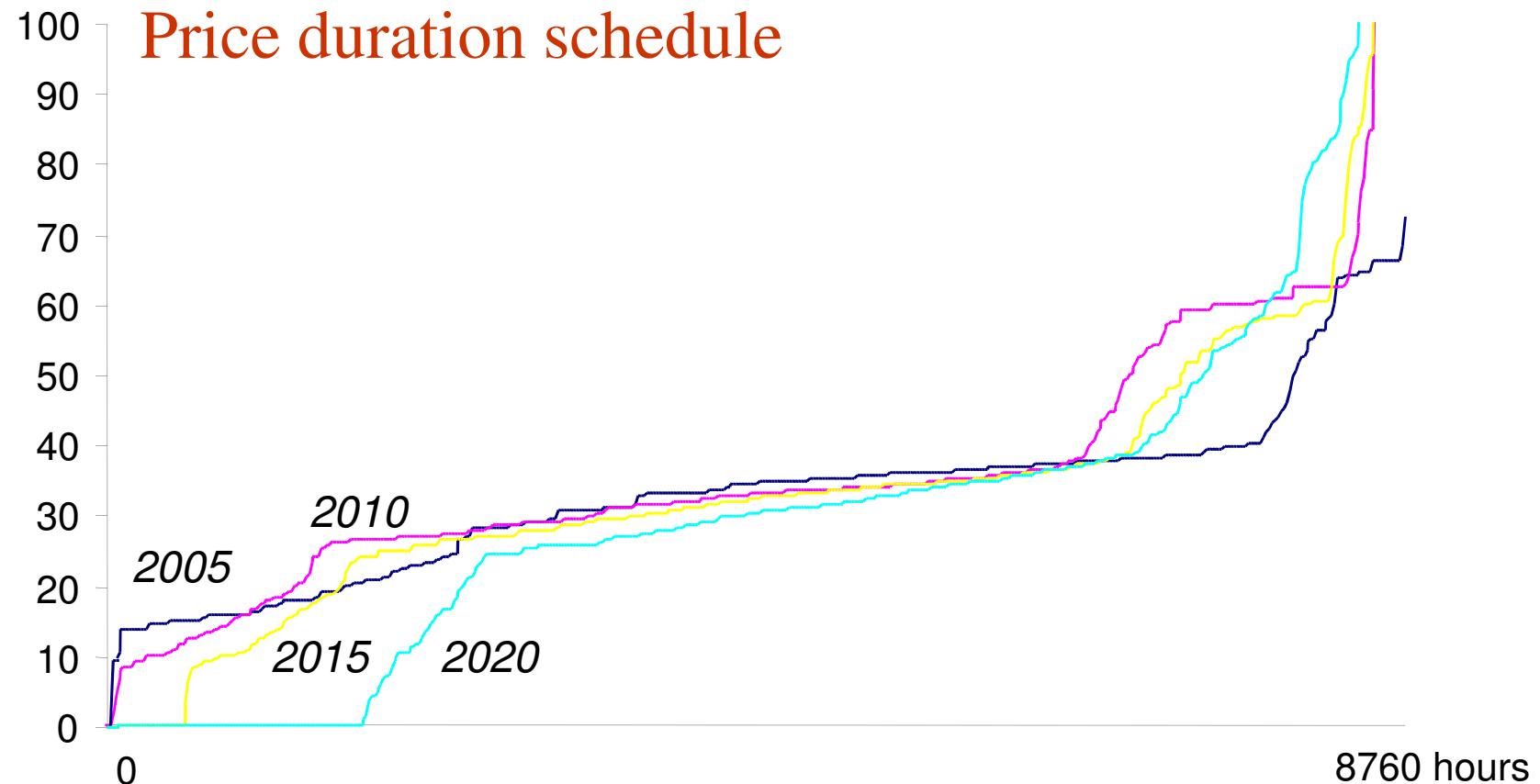


Source: graph by Prof David Newbery, Cambridge

Large-scale renewables increase volatility

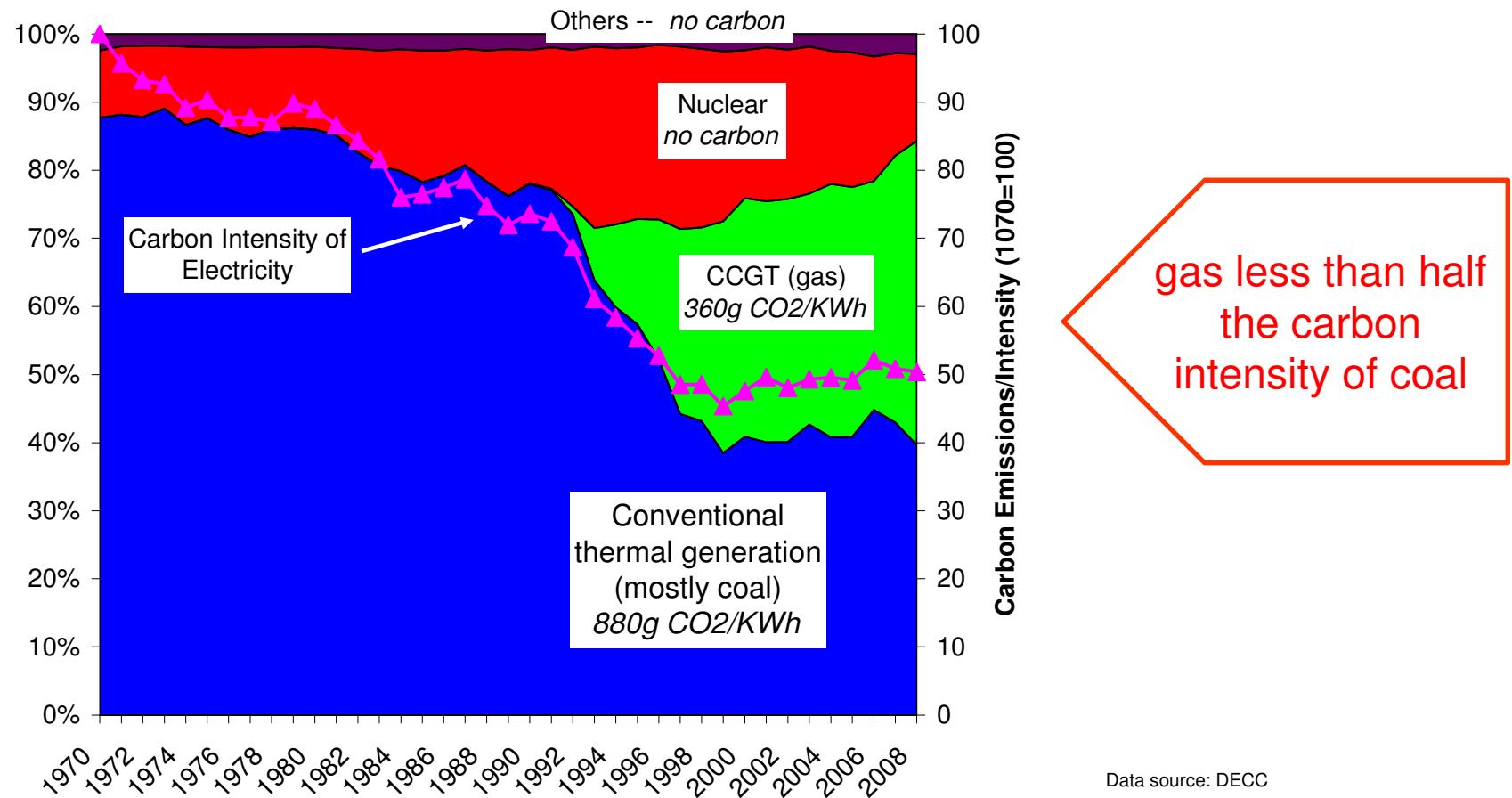
Euro/MWh

Illustrative

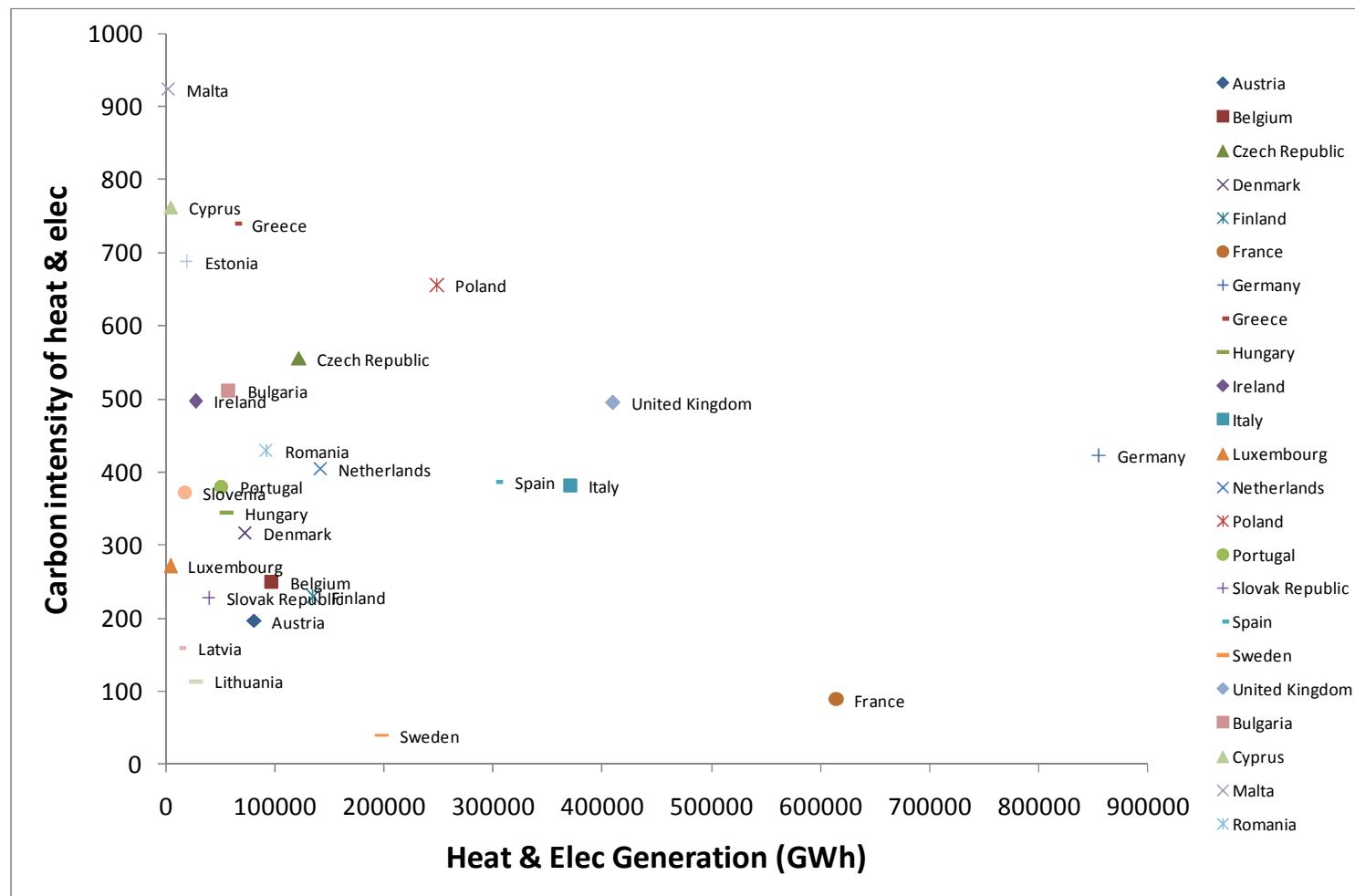


Source: graph by Prof David Newbery, Cambridge

Gas as a decarbonisation option

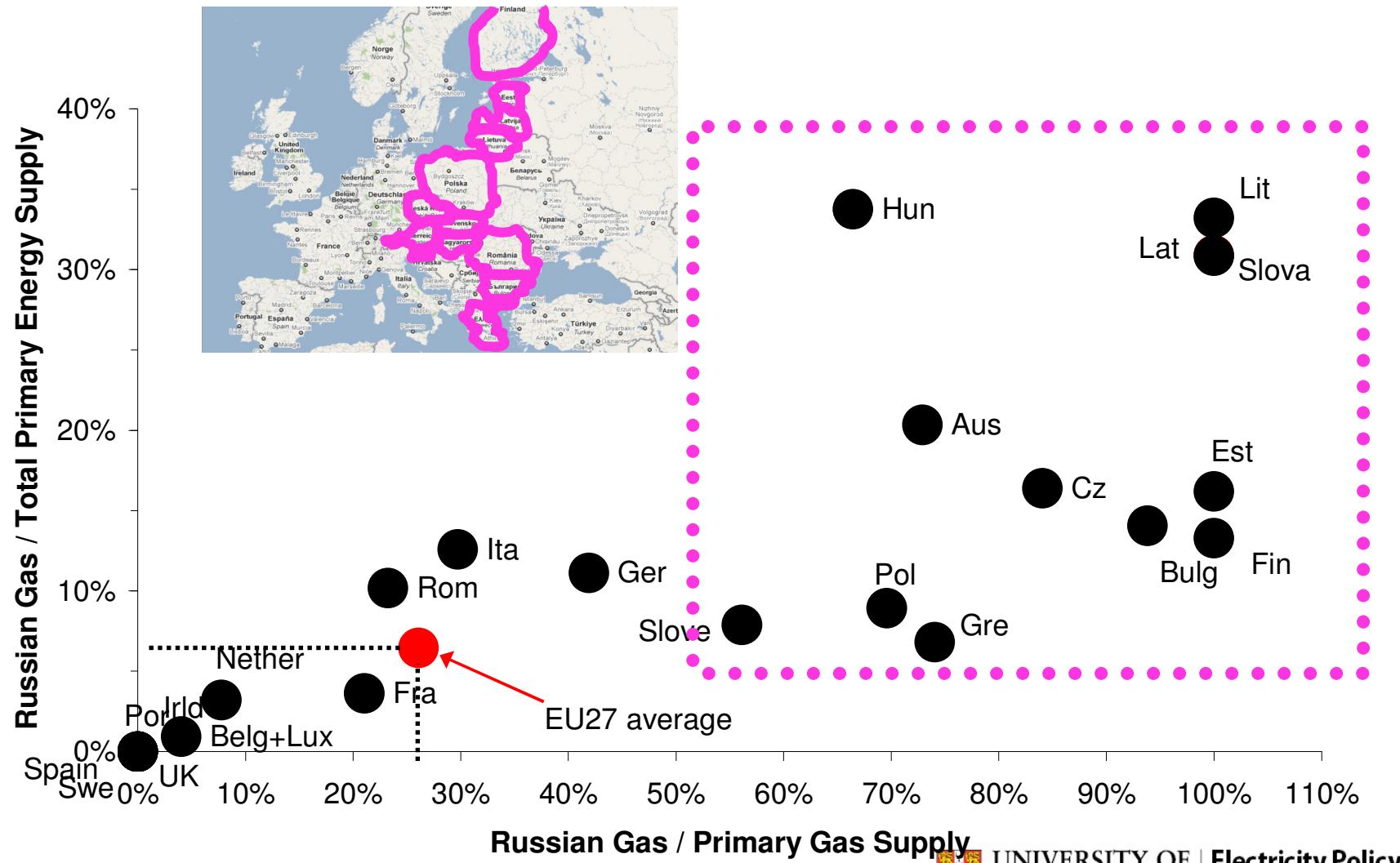


Carbon intensity of heat & power



Data sources; IEA; Eurostat

Russian gas in Europe (3)



Source: National statistics; BP Statistical Review of World Energy 2009

Conclusion

1. Refocus the energy policy on decarbonisation
2. Gas is our friend – short term, affordable decarbonisation
3. We need
 - To make Russian gas contestable in central Europe
 - A ‘rising floor’ under the carbon price
 - Subsidies targeted at learning potential
 - **And let the market work!**