

Role of gas infra in SoS

Wim Groenendijk

Gasunie

Specific features of natural gas

Dominated by supply via pipelines for most regions (EU: 80% pipeline, 20% LNG)

➤ Interdependency producer/consumer

Gas market very different from power market: national resource, cross-border transport

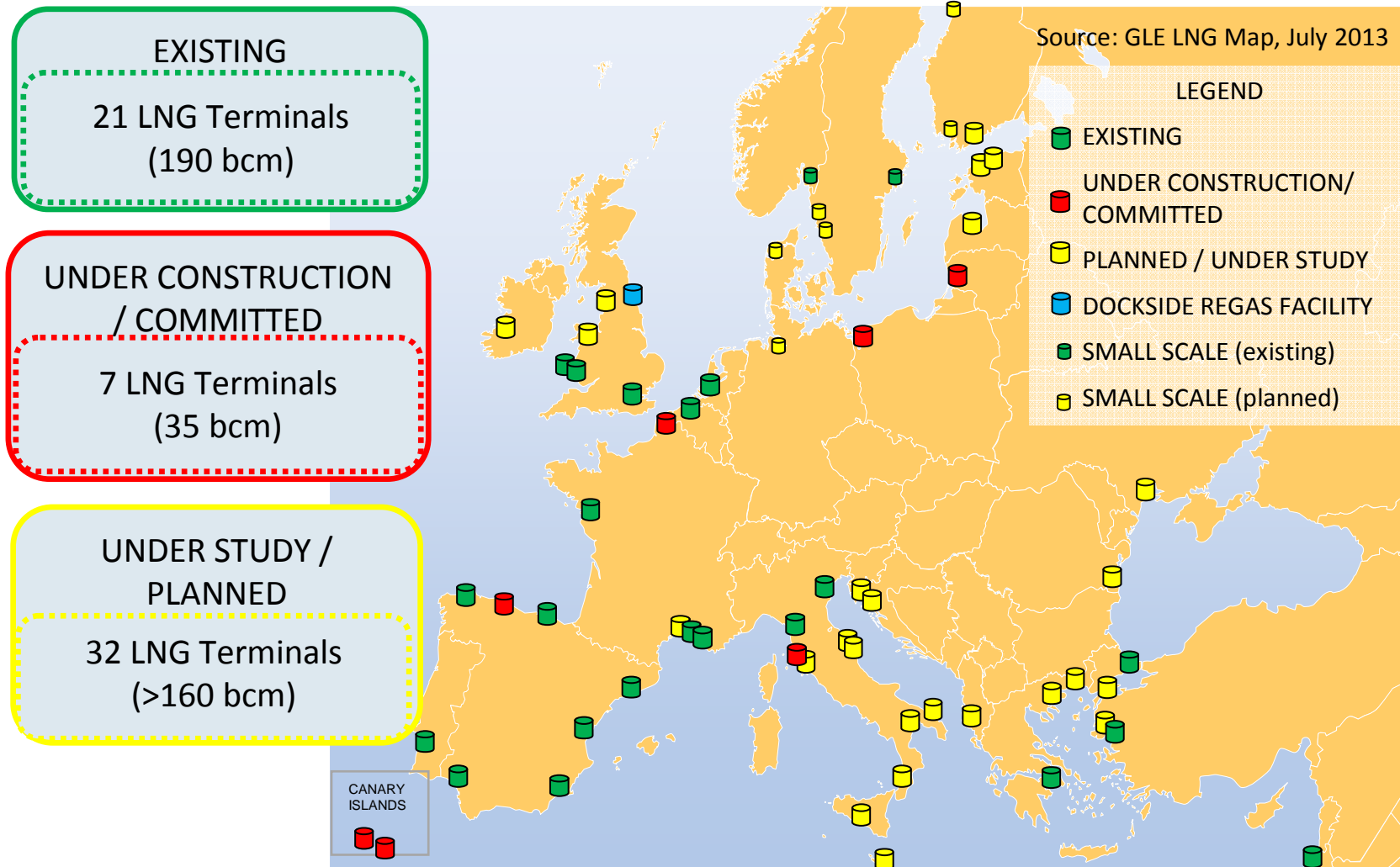
EU	Gas	Electricity	
Peak consumption	1477	560	GW
Storage (out)	1267	38	GW
Interconnection	2487	463	GW
Import (average)	430	3	GW

Source: TYNDP ENTSO-E/ENTSOG

Gas and SoS

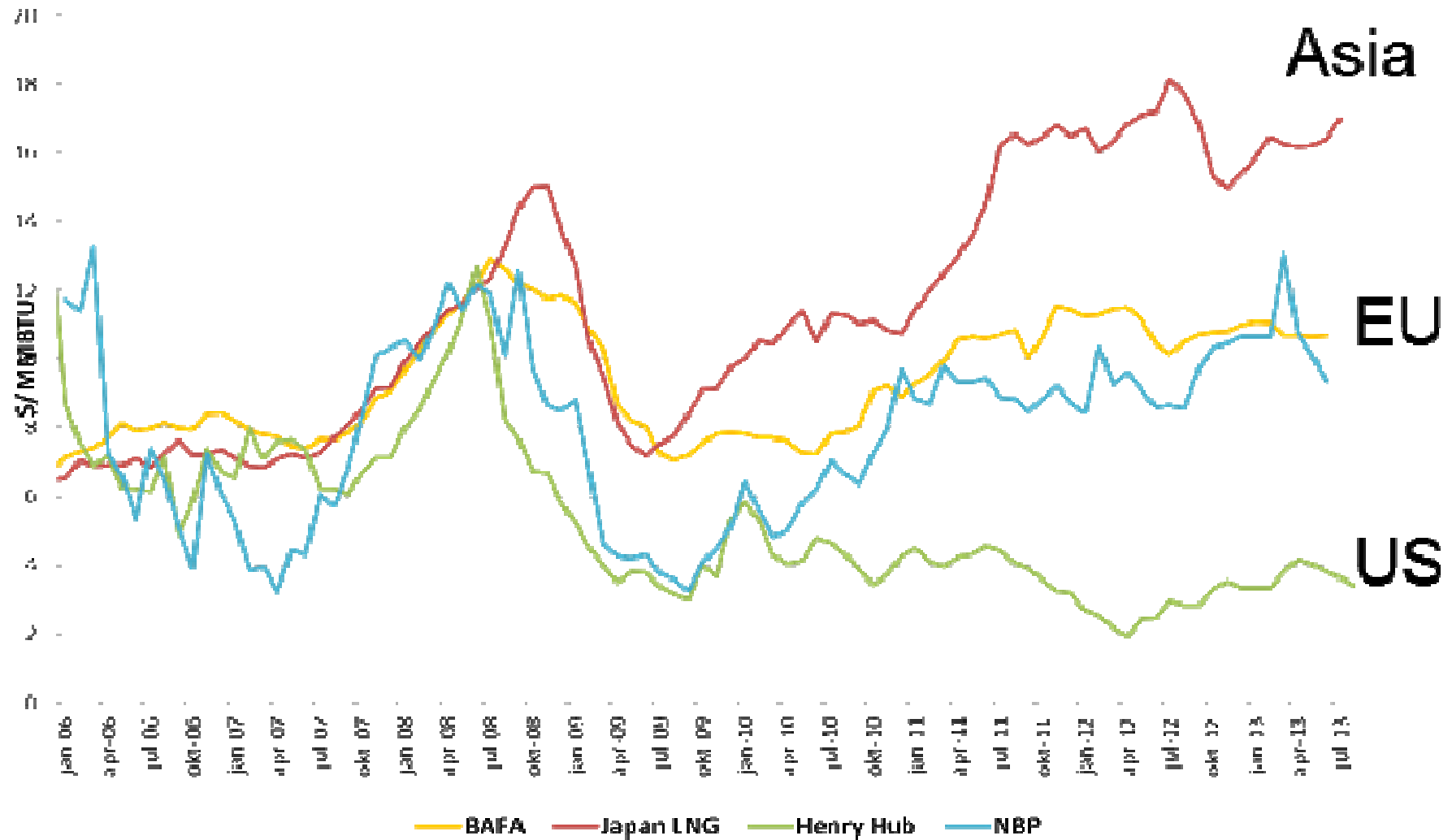
- ‘2009 gas crisis’: was it a gas crisis or a gas infrastructure crisis?
- The importance of diversity
 - Supply sources
 - Supply routes
 - Fuels
- EU initiatives
 - Promote diversity
 - Minimum standards for interconnectivity
 - Financial support
- Role market versus centralised approach
 - Investment signals for SoS?

LNG terminals in Europe

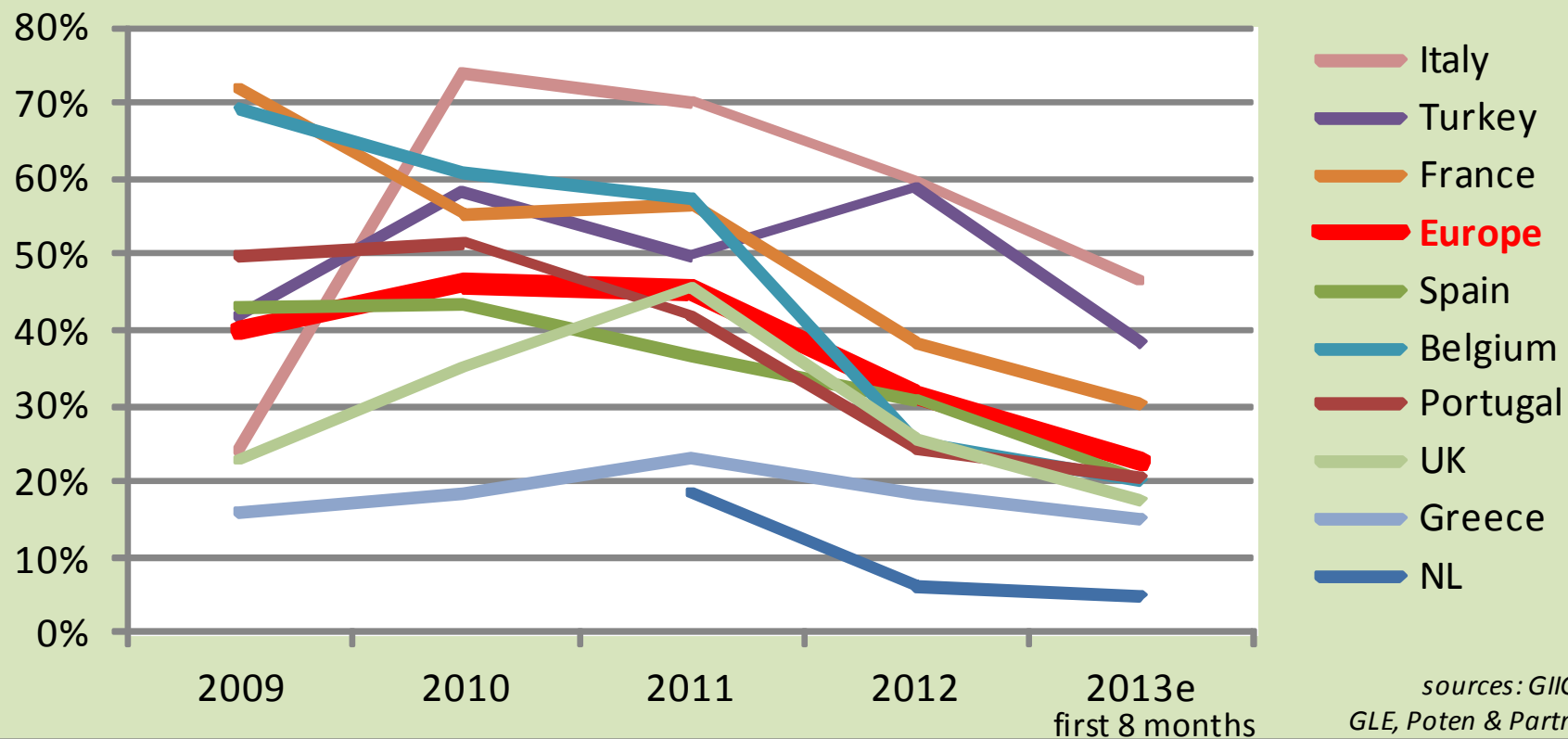


Detailed information on LNG terminals available at <http://www.gie.eu/index.php/maps-data/lng-map>

Global gas prices



Utilisation Rates of European LNG Terminals (based on net import volumes)



With respect to security of supply,
gas infrastructure is the means to an
end in the interplay between
markets and governments