# The role of the European grids in seeking energy independence

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2012 Annual EURO-CASE Conference PARIS – November 13, 2012



Shaping the future of gas transmission



# EU Energy consumption : the 3rd worldwide market



#### Importance of oil, gas and coal



# Significant market differences

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Crude Oil	<ul> <li>Worldwide market</li> <li>Imports: mainly via oil tankers</li> <li>Low transportation costs</li> <li>Large crude oil storages</li> </ul>
Electricity	<ul> <li>National / European market</li> <li>Domestic production</li> <li>Limited interconnection capacities</li> <li>High transportation costs</li> <li>No storage</li> </ul>
Natural gas	<ul> <li>European market / LNG linking markets in the world</li> <li>Imports: mainly via gas pipelines</li> <li>key importance of cross border flows</li> <li>Structural dependence of central Europe on Russian gas</li> <li>Large natural gas storages</li> </ul>
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# EU-27 energy import dependence



#### **Russia & Norway: the 2 main oil exporters**





#### Russia & Norway: the 2 main gas exporters





#### **European energy grids**





#### **Priority corridors in Europe**





#### **European energy roadmap**



# Challenges for the European gas grid



- Connection of new supply sources to Europe
- Security of supply





Competition between gas sources

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- Market integration
- Electricity & gas markets interactions



# Impact of the future gas pipelines



#### Gas pipelines and new projects in France





### Smart grids for a global efficient energy system



- Limited costs compared to gas prices
- A major contribution to security of gas supply
- A major contribution to competition on the wholesale market benefiting to final consumers
- A key role for promoting indigenous energy production and preparing the future European energy mix



# Thank you for your attention



For more information: www.grtgaz.com



#### Shaping the future of gas transmission

