



Energ

for

Offshore Connectivity and European Energy Policy

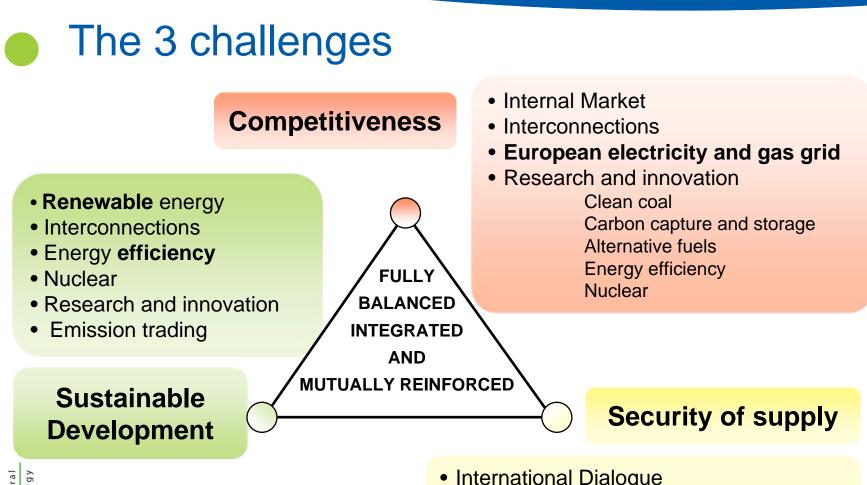
Berliner Energietage 2010

Mr. Georg Wilhelm Adamowitsch, European Coordinator Connection of offshore wind power in Northern

Europe (North Sea – Baltic Sea)

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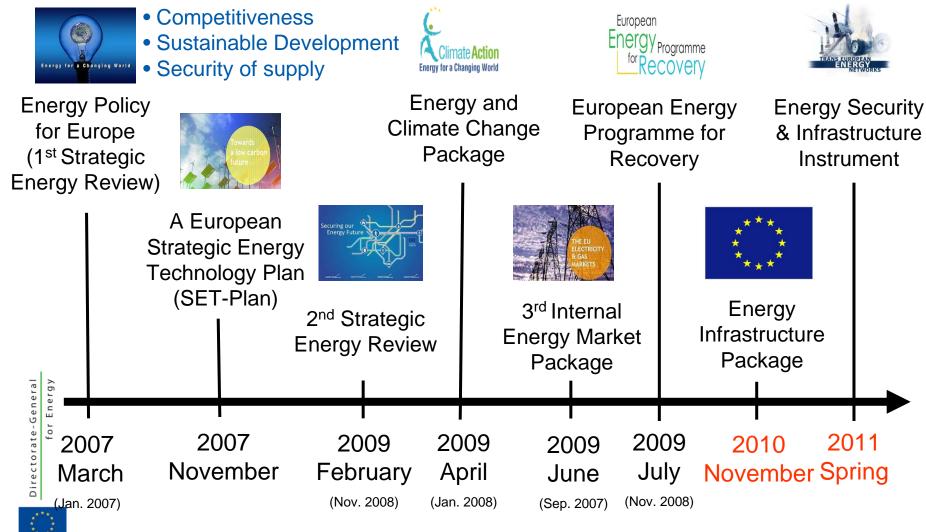


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"In Spirit of Solidarity between Member States"

- International Dialogue
- European stock management (oil/gas)
- Refining capacity and energy storage
- Diversification of sources and routes
- Interconnections

European Energy Policy



Outcome of the European Policy Offshore

- Directive of Renewable Energy (binding targets to reach 20% by 2020)
 - » National Renewable Action Plan (June 2010)
- Energy Market Directives (Unbundling, ENTSO-E, ENTSO-G and ACER)
 - » 10-Year Network Development Plan (March 2010)
- Financing
 - » €565 million for offshore projects
 - » €925 million for electricity infrastructure
- Intelligent Energy Europe Programme
 - » OffshoreGrid study (http://www.offshoregrid.eu)





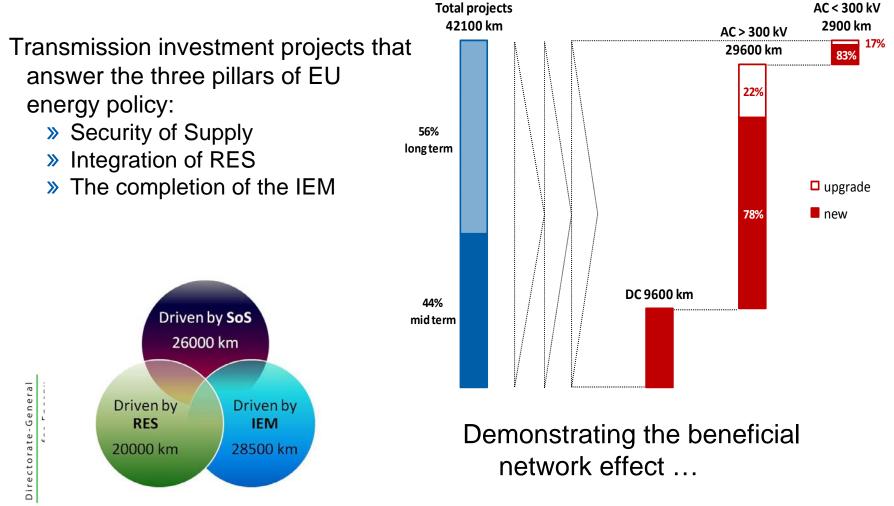








Pilot TYNDP delivers source: entso

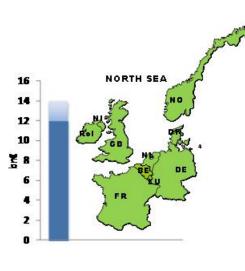


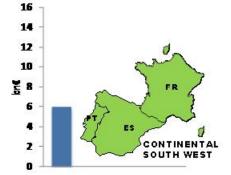




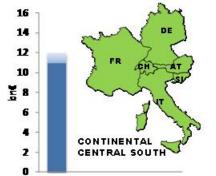
Pilot TYNDP delivers source: entso

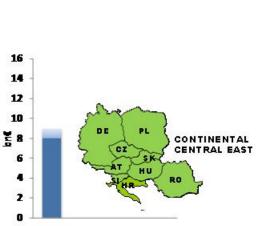
... and an impressive investment effort

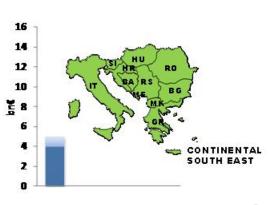












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Energy Programme for Recovery

List of Offshore Wind Energy (OWE) Projects (5)

Project	Countries concerned	Amount M€
Baltic – Kriegers Flak I, II, III	Denmark, Sweden, Germany	150
North sea grid	United Kingdom, The Netherlands, Germany, Ireland, Denmark, Belgium, France, Luxembourg	165
Borkum West II – Bard 1 Nordsee Ost – Global Tech I	Germany	200
Aderdeen offshore wind farm	United Kingdom	40
Thornton Bank	Belgium	10
TOTAL		565



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Offshore capacity



Country	Total OffshoreGrid		
	2020	2020-2030	2030
Belgium	1.994	1.800	3.794
Denmark	2.329	1.470	3,799
Estonia	0	1.600	1.600
Finland	590	2.600	3.190
France	2.510	2.404	4.914
Germany	10.249	16.304	26.553
Ireland	1.055	2.725	3.780
Latvia	0	900	900
Lithuania	0	1.000	1.000
Netherlands	4.622	7.500	12.122
Norway	957	8.710	9.667
Poland	500	4.800	5.300
Russia	0	500	500
Sweden	2.983	7.539	10.522
UK	15.303	22.843	38.146
Total Northern EU	42.135	73.485	115.620
Total Baltic and North Sea	43.093	82.695	125.787
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Sea	2020	2020-2030	2030
North Sea	27309	48557	75866
Baltic Sea	6891	21696	28587
Kattegat	501	0	501
Irish Sea	5882	6963	12845
English Channel	2510	2050	4560
Atlantic (Ireland)	0	100	100
Bay of Biscay	0	1354	1354
Norwegian Sea	0	1975	1975



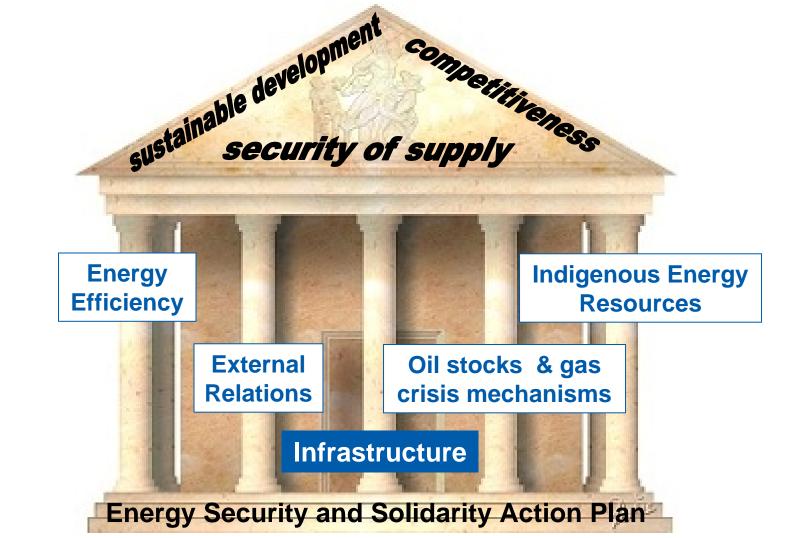
Governmental initiative North Seas Countries' Offshore Grid Initiative

- Political declaration of 9 countries (7 December 2009)
 - » Belgium, Denmark, France, Germany, Ireland, Luxembourg, the Netherlands, Sweden and the United Kingdom
 - » Joint by Norway on the 2nd February 2010
- Nomination of Wind Coordinator (February 2010)
- Mains issues to be addressed
 - Offshore Grid configuration/integration >>>
 - **Regulatory** issues >>
 - Market >>>
 - > Planning & Authorisation procedures
- Memorandum of Understanding (end 2010)

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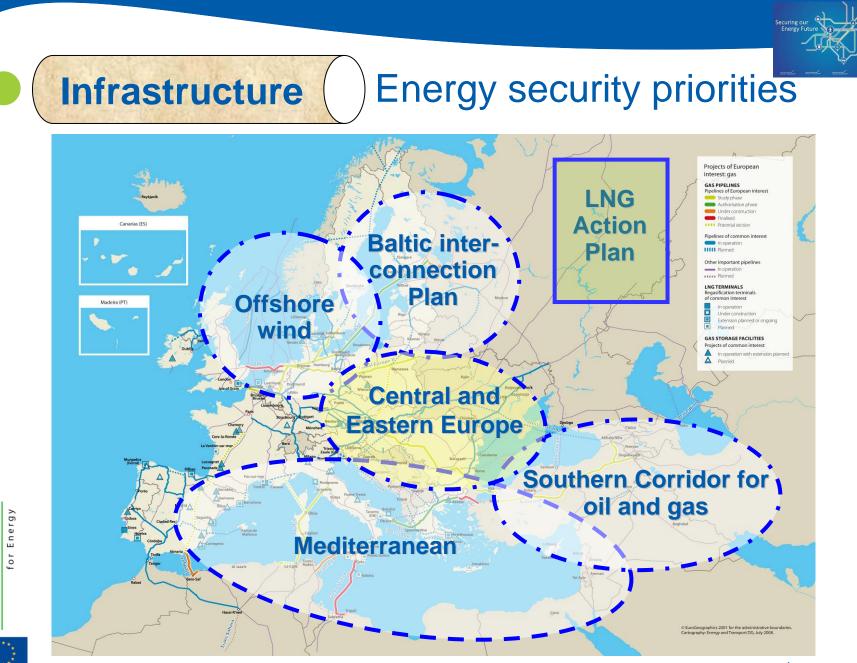


2nd Strategic Energy Review



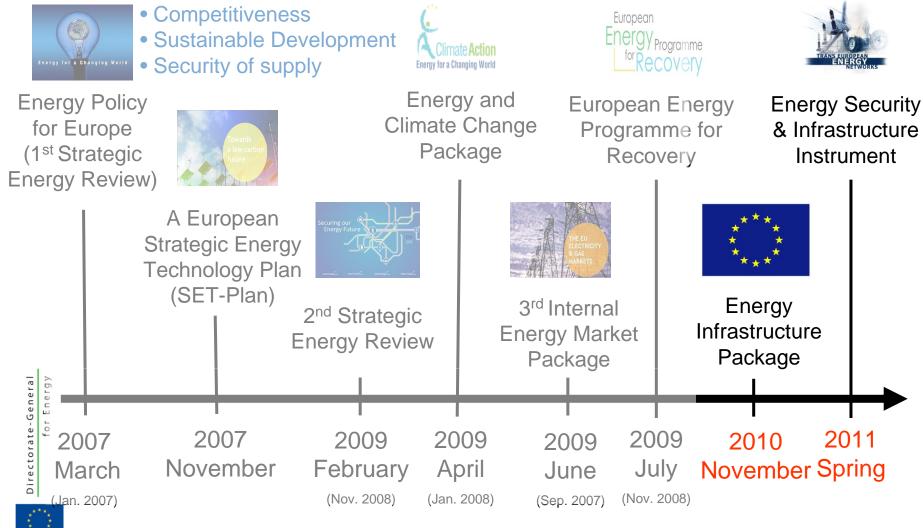
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EUROPEAN COMMISSION

European Energy Policy



Follow-up of Energy Policy

- Priority: Energy Infrastructure Package
- Energy efficiency action plan (Nov. 2010)
- Action Plan 2011-2015 (early 2011)
- Roadmap 2050 for a European low carbon energy system (early 2011)



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Energy Infrastructure Package - challenges

- Ensuring the well functioning on the EU internal electricity and gas market; enhancing security of supply and creating the right scale for innovation
- Modernisation of the infrastructure is needed to integrate the variety of renewable energy sources – "super grid" for electricity transport; CO2 transport infrastructure (CCS)
- Addressing the external dimension through diversification of routes and sources of supply (gas and oil)
- Financing optimal balance between user pays (tariffs) and tax payer pays (EU funds) principles



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Energy Infrastructure Package - content

November 2010

- Political communication on energy infrastructure development and priorities for 2020/2030
- Communication on the contribution of the six priority infrastructure actions proposed under the Second Strategic Energy Review (supported by CSWPs)
- Accompanied by the Impact Assessment Report

To be followed-up in Spring 2011 by a legislative proposal for an EU Energy Security and Infrastructure Instrument



Securing our Energy Future

http://ec.europa.eu/energy/index_en.htm



Thank you for your attention