EU COAL SECTOR DEVELOPMENT AND WORLD MARKET CONTEXT

Fossil Fuels Forum Workshop Brussels 25th May 2011

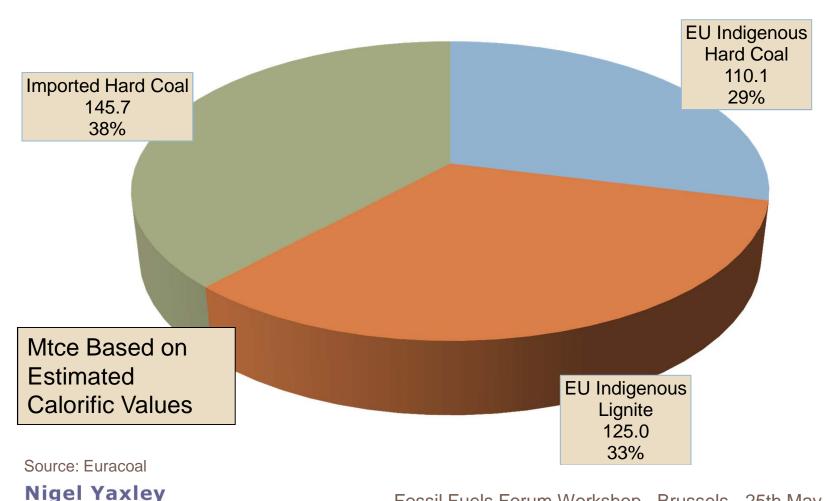
EU Coal Sector Development and World Market Context

- EU coal supply
- World coal production and trade
- 2011 supply and demand drivers
- Pricing trends
- Long-term demand scenarios
- Summary

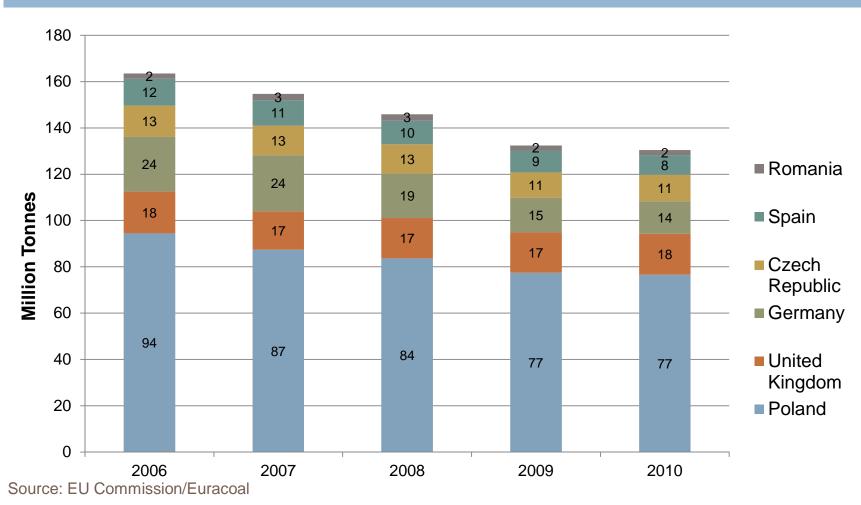


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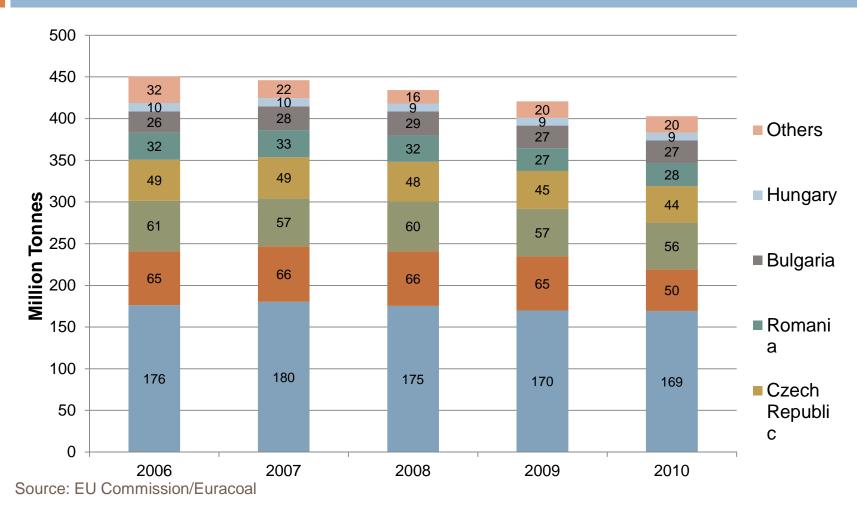
62% of EU's solid fuel supply in 2010 was indigenous



The decline in EU hard coal production halted in 2010



EU lignite production declined by 4% to 403 Mt in 2010



6

2009 employment in the EU coal sector was 266,000 – over half in

Poland

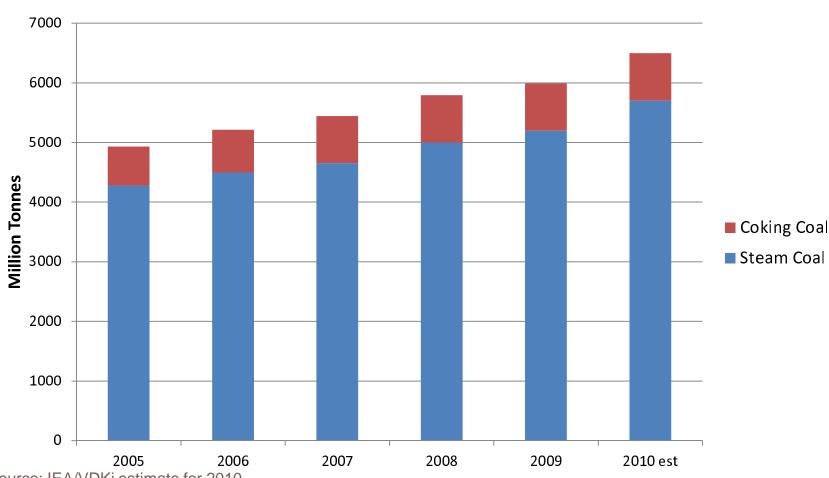
	Lignite	Hard Coal	Total
Bulgaria	9,030	4,690	13,720
Czech	6,130	10,990	17,120
Republic			
Germany	16,600	29,570	46,170
Greece	5,160		5,160
Hungary	2,630		2,630
Poland	16,630	119,800	136,430
Romania	13,850	10,740	24,590
Slovak	4,500		4,500
Republic			
Slovenia	1,830		1,830
Spain		7,680	7,680
UK		5,910	5,910
Total	76,360	189,380	265,740

Source: Euracoal



World hard coal production increased by 8% in 2010 to 6.5

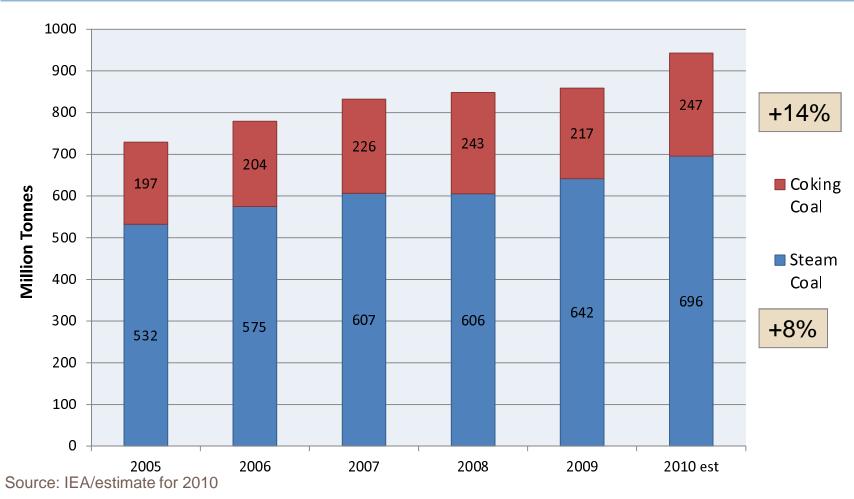
billion tonnes



Source: IEA/VDKi estimate for 2010



World seaborne coal trade also recovered strongly in 2010...



...but European coal imports fell overall – steam coal down but

coking coal up

- Steam coal imports down by 20 million tonnes (Mt)
 - UK down 14 Mt
 - Spain down 5 Mt
 - Portugal down 2 Mt
 - Others up 1 Mt

- Coking coal imports up by 11 million tonnes
 - Germany up 4 Mt
 - Italy up 2 Mt
 - Netherlands up 1 Mt
 - □ UK up 1 Mt
 - Others up 3 Mt

Source: MCIS estimates



2011 started with floods in Australia...





Nigel Yaxley

- Floods affected mines railways and port infrastructure
- World coking supplies were worst hit
- Steam coal market recovered relatively quickly

...and then the Japanese earthquake and tsunami also

affected coal stations



- Japan is world's biggest coal importer
 - □ (120 Mt in 2010)
- Around 7 GW affected
- Haramachi 2GW plant almost completely destroyed

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Ports also affected

... but European political reaction to Japan's nuclear crisis also

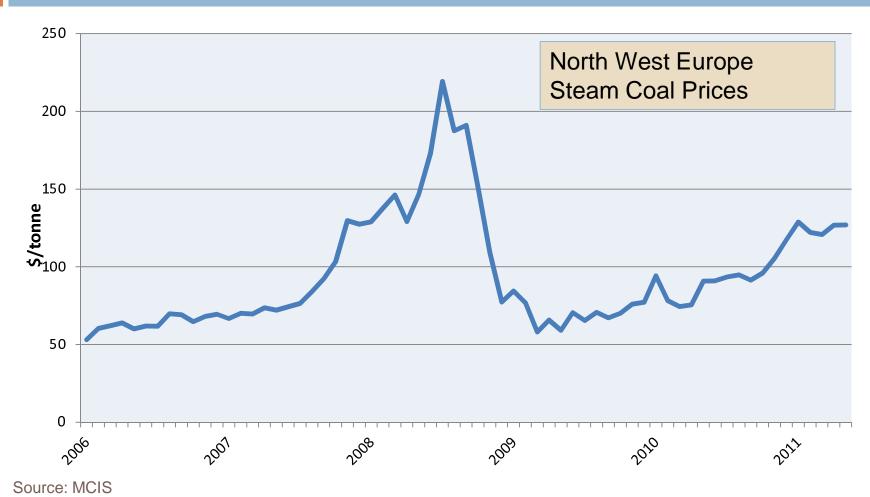
affects coal



- 7GW nuclear capacity 'temporarily' closed
- Gas prices
 strengthened due to
 increased Japanese
 LNG imports
- European coal demand may increase



2011 has seen a significant increase in world prices...

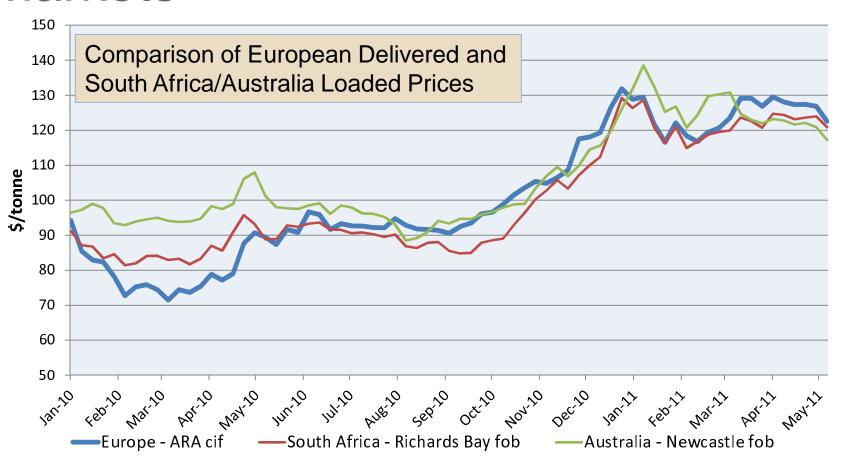


...and the forward curve maintains these high prices



Price developments shows relative strengths of Asian and Atlantic

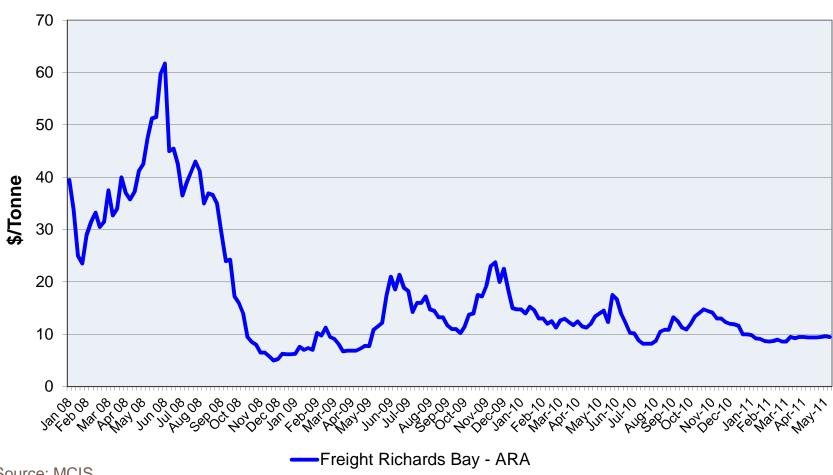
markets



Source: MCIS



Sea freight rates have stabilised this year at a relatively low level



Source: MCIS



The coking coal market is moving towards commoditisation

Annual Benchmark Prices to March 2010 (US \$/Tonne FOB Australia)

Contract	2005/6	2006/7	2007/8	2008/9	2009/10
Prices*					
Hard Coking	125	112	96	300	129
Coal					
Semi-soft	80	58	65	240	85
Coking Coal					
PCI	102	68	71	250	90

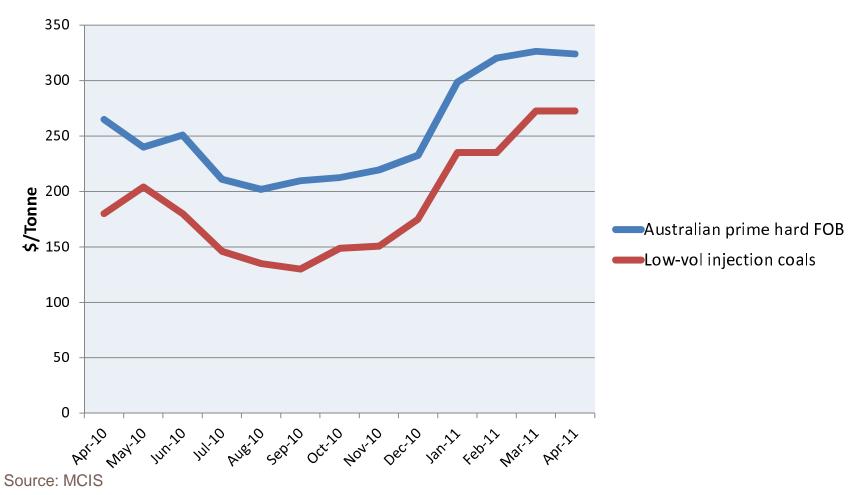
Quarterly Benchmark Prices from April 2010 (US \$/Tonne FOB Australia)

Contract	Apr-Jun 2010	Jul-Sep 2010	Oct-Dec 2010	Jan-Mar 2011	Apr-Jun 2011
Prices*					
Hard Coking	200	225	209	225	280-300
Coal					
PCI	170	180	147	180	210-215

Source: Merrill Lynch



Spot metcoal prices have levelled off after major gains



IEA World Energy Outlook 2010 established 'new policies'

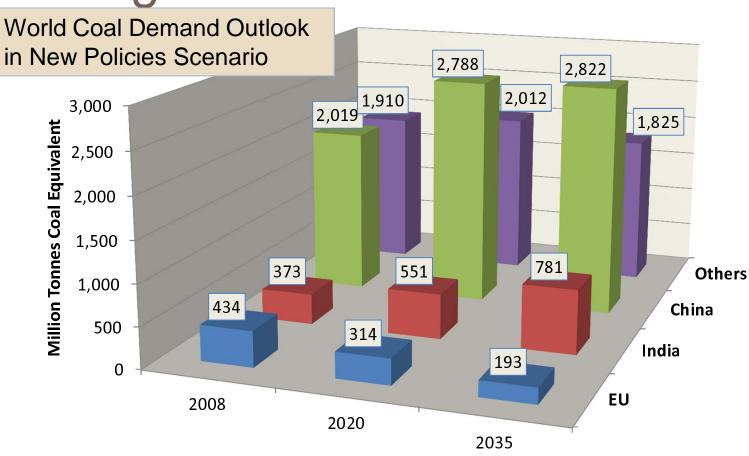
19 Scenario...

- New Policies Scenario
 - Includes all energy and climate change policies committed to by governments by mid-2010
 - Between 'business as usual' and '450' scenarios
- Coal demand growth
 - □ 60% by 2035 in 'business as usual'
 - 20% by 2035 in 'new policies'
 - All the growth is in non-OECD countries



...where Chinese coal use levels off after 2020 but India continues

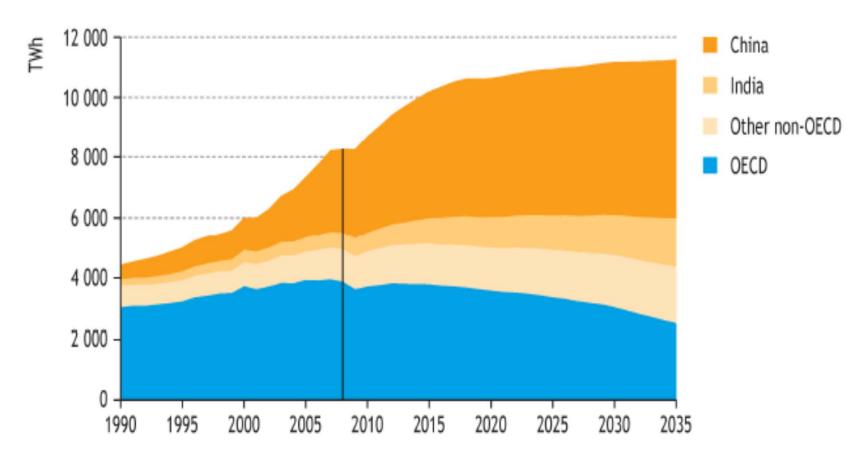
20 Growing



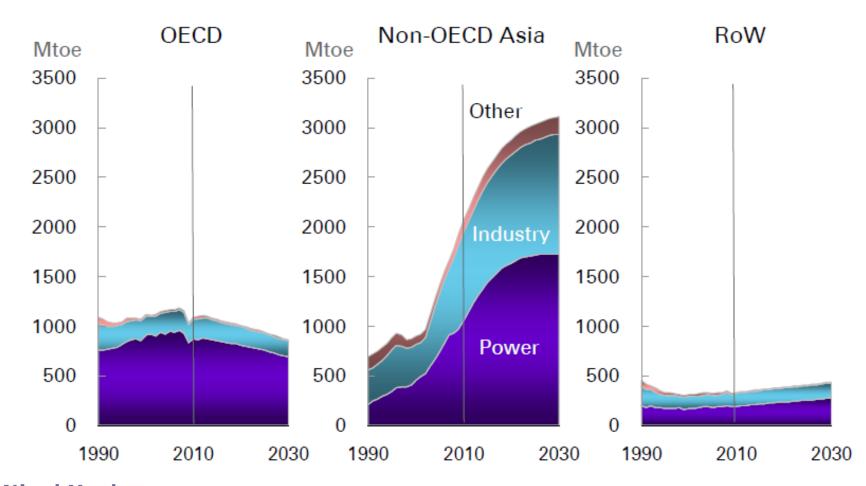
Source - IEA World Energy Outlook 2010



Coal-fired electricity by region shows decline in OECD demand



BP Energy Outlook paints a similar picture



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Summary

- EU indigenous supply remains strong (62%) as imports reduce
- World production and trade grew strongly in 2010
- Supply and demand in 2011 has suffered major shocks
- This has been reflected in price trends
- International prices remain high by historic standards
- Asian demand will continue to grow as European demand reduces
- ☐ How will European producers and consumers react Night International prices Fremain high?hop Brussels 25th May 2011

THANK YOU