



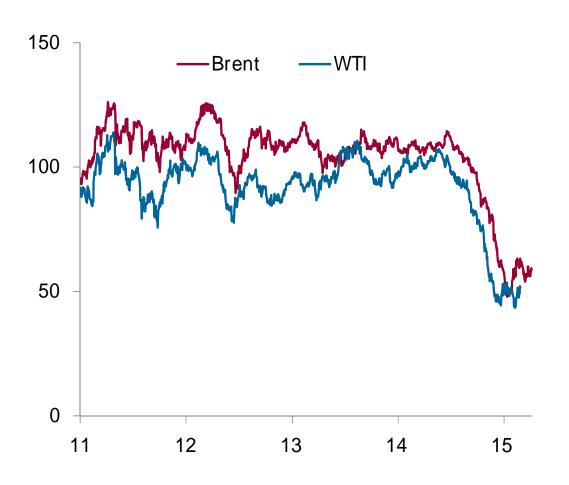
# Oil and gas market outlook

Richard Mallinson, April 2015

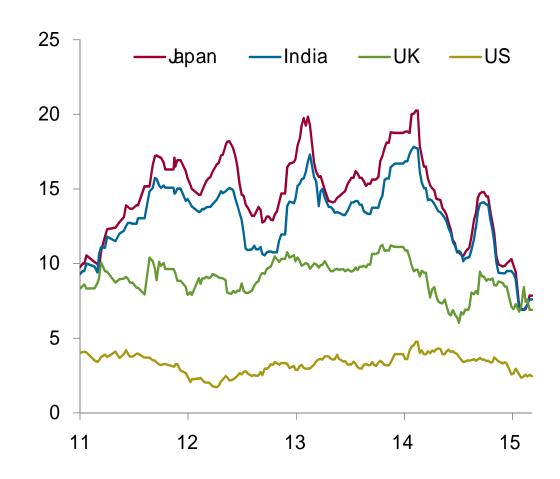


## Oil and gas prices have fallen sharply

#### Crude oil prices \$/bbl



#### **Global LNG Prices** \$/mmbtu



After rapidly falling by over 50% oil prices oil prices remain volatile in the \$50s per barrel range

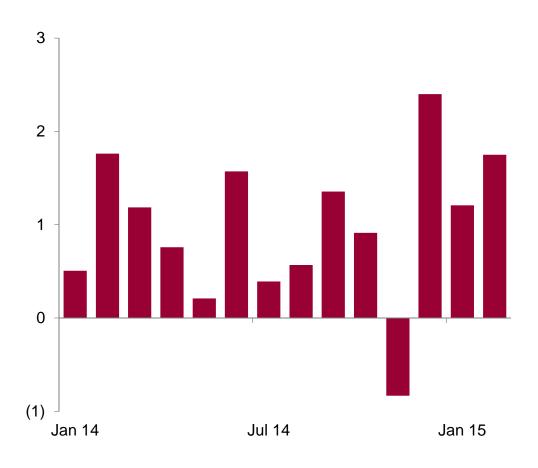
LNG prices have also dropped sharply and generally converged due to weak demand and rising supplies

Source: Bloomberg, Energy Aspects

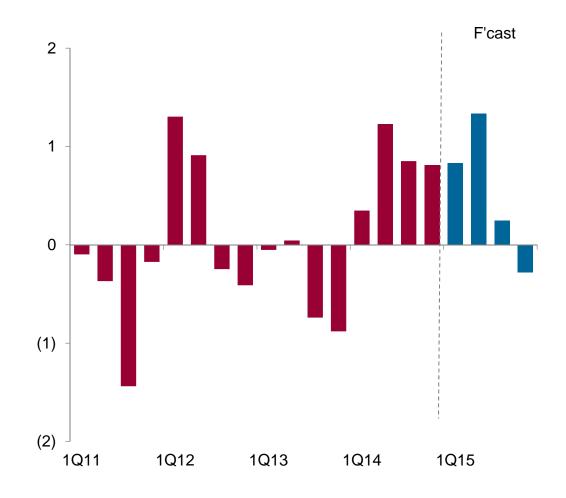


## The oil demand response is limiting stockbuilds

#### Global oil demand, y/y change Mb/d



#### Global implied stock changes Mb/d



Global oil demand growth has picked up tremendously in recent months – strength in Asia, the US and elsewhere

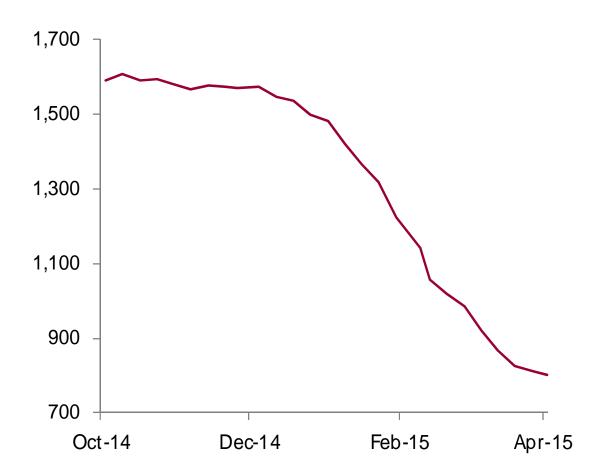
Stocks are still building, but by much less than the market expected at the turn of the year

Source: Energy Aspects analysis

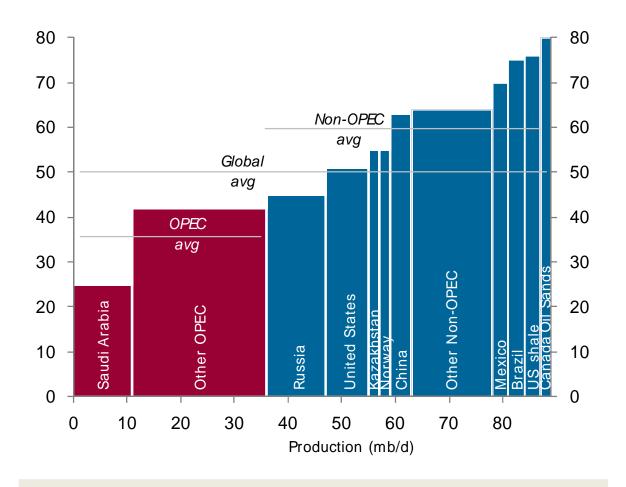


## Oil and gas producers are responding to lower prices

#### US oil rig counts



Global cost curve (ex dividend or interest payments) \$ / barrel



US rig numbers have fallen fast despite producer hedging, with even the best shale plays testing breakevens

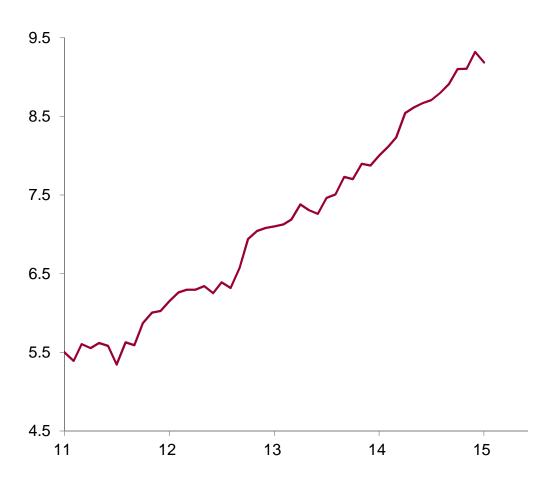
Prices are still below far the levels needed to justify new investments in many parts of the world

Source: Baker Hughes, Company Reports, Energy Aspects analysis



#### But non-OPEC supplies will only slow gradually

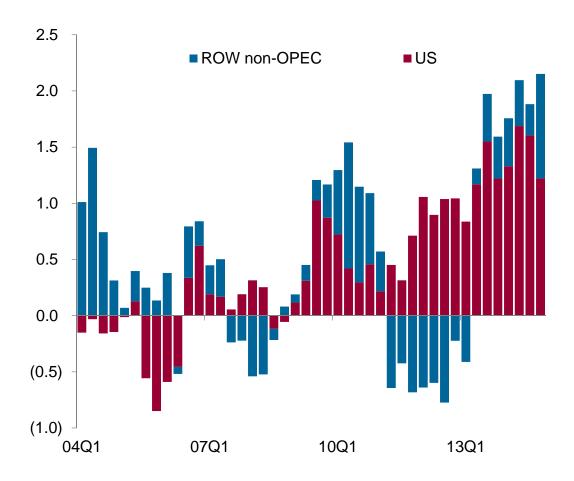
#### US crude production Mb/d



US output, which will be the first to respond to lower prices,

has not reacted yet as there are time lags

#### Rest of World non-OPEC supplies, y/y change Mb/d



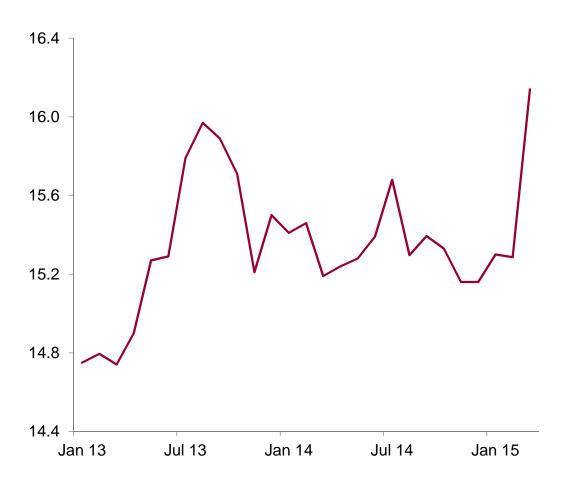
Record investment driven by high prices temporarily reversed the declines across non-OPEC supplies outside the US

Source: EIA, Energy Aspects analysis



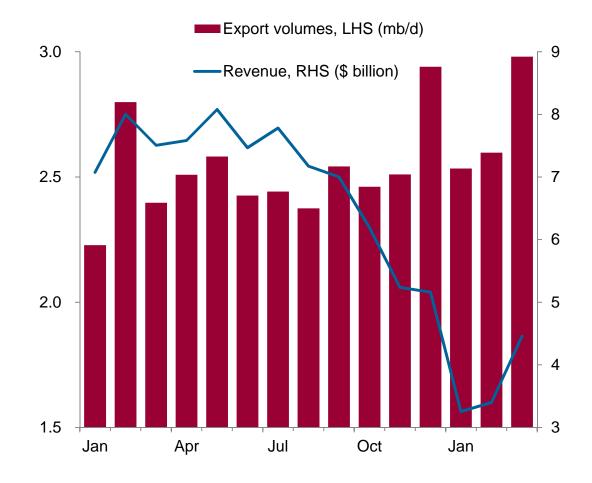
#### For now a two-tier OPEC will not cut output

#### GCC crude production Mb/d



#### GCC countries have raised output as refinery demand has soared and they have lowered OSPs to gain competitiveness

#### Iraq crude exports and revenues



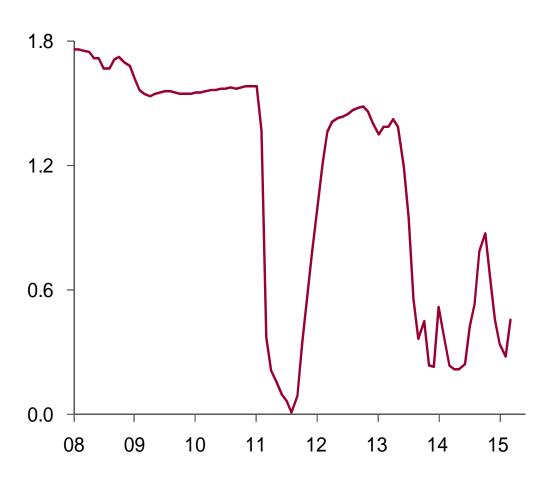
While cash-strapped members such as Iraq have seen their revenues collapse, leaving no option but to maximise output

Source: EIA, IEA, Reuters, Bloomberg, Platts, Iraq Ministry of Oil, Energy Aspects analysis



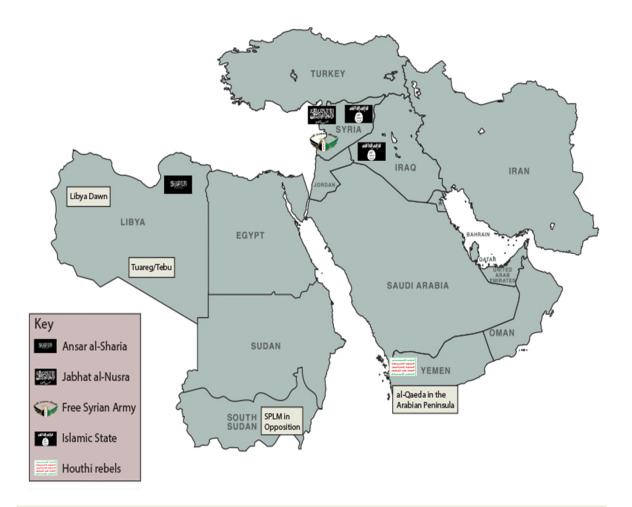
#### While lower prices add to existing geopolitical issues

#### Libyan oil production Mb/d



Lower revenues fuel the political and security issues that are already disrupting output in countries such as Libya

#### Active militant groups in MENA



Rising number of militant groups are spreading across the MENA region, limiting energy investments

Source: EIA, IEA, Reuters, Bloomberg, Platts, Energy Aspects analysis



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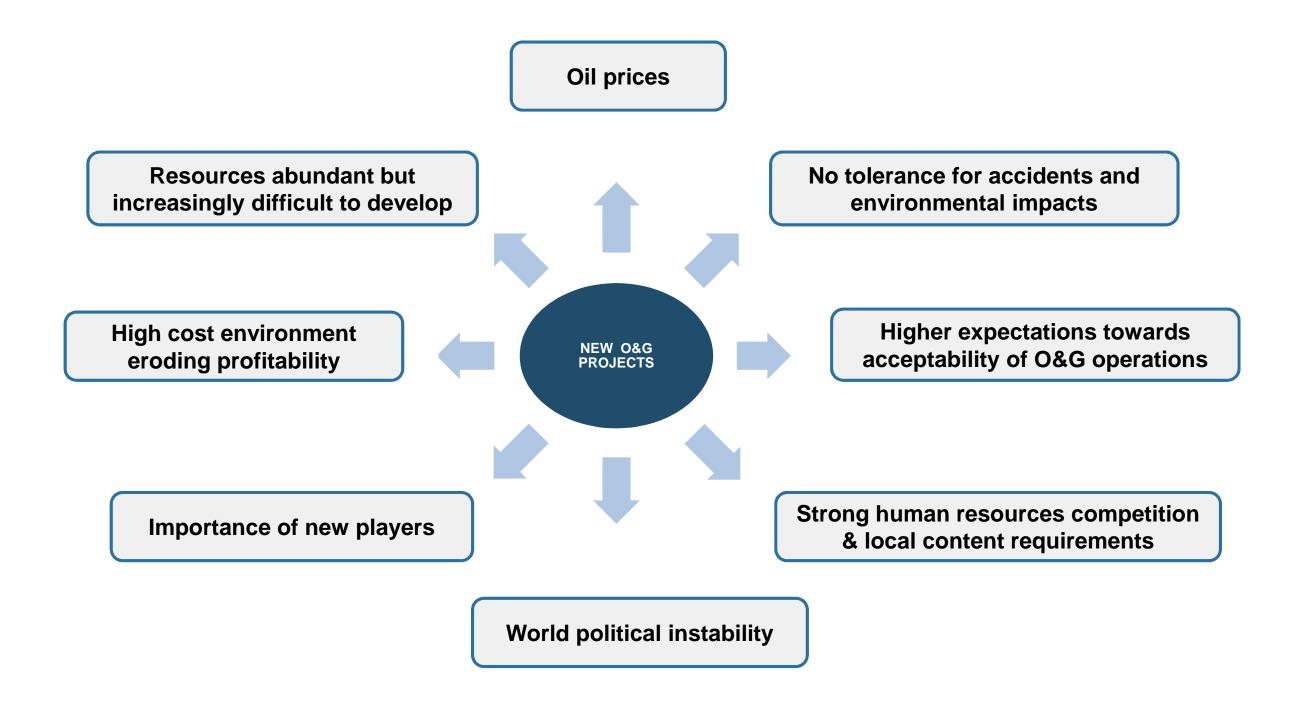




# BIG CHALLENGES FACING NEW OIL & GAS DEVELOPMENTS

Michael Borrell, Senior VP Europe and Central Asia, Total Tuesday, 21st April 2015, Global Energy Sumit 2015, London

#### **OUR ENVIRONMENT**



# The oil and gas environment is rapidly changing



#### REQUIRED FUTURE PRODUCTION

Oil supply-demand Mb/d Oil demand CAGR 100 >90 \$/b 60-90 \$/b <60 \$/b North **America** Decline ~50 Mb/d of incremental production **OPEC** 2030 2013

**Demand growth** and **decline rate** driving the need for ~50 Mb/d new production by 2030

Marginal supply requires **high tech**, continuous **innovation** and significant **investment** 

~20% of new volumes require >90 \$/b in today's cost environment



**CLOV** 



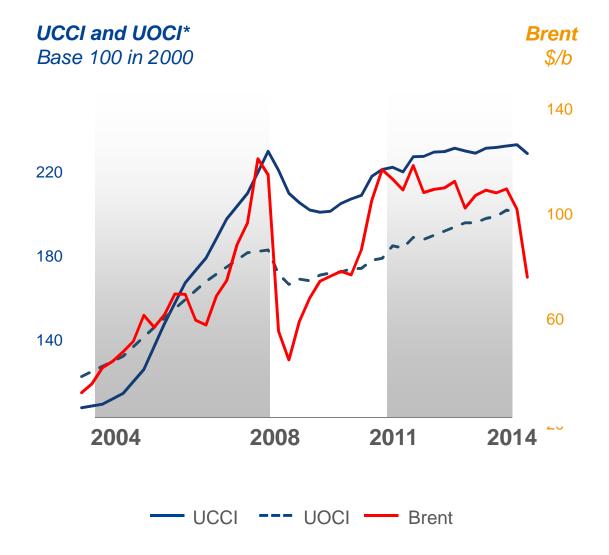
**CLOV** 

## Resources will be increasingly difficult to develop



#### **COST INFLATION**

#### Rising costs



<sup>\*</sup> IHS CERA Upstream Capital Cost Index and Upstream Operating Cost Index

Cost inflation over the past decade has been dramatically impacting O&G companies profitability.

**Reducing costs** is a priority for Total, which has launched a major initiative at Group level.

Objectives are to control CAPEX, decrease OPEX and maintain among the lowest technical costs in the profession

... while not compromising on safety.

These efforts will shape the way future developments are conceived:

- Development in sequence
- No gold plated approach / "good enough" design
- Innovation used as a key driver for lowering costs

## Cost have reached unsustainable levels, even at 100\$/b



#### **ACCEPTABILITY**

# **Enhancing** partnerships

- Increased collaboration
- Better alignment
- Relations based on mutual trust and knowledge

# **Creating and sharing** "in-country value"

- Revisit "local content" approach
- Education and training
- Contribute to the social and economic development

# Improving environmental performance

- Promote gas, limit GHG emissions and reduce flaring
- Develop new energies (solar)
- Improve energy efficiency



Expectations for "in-country value" will have to be optimized



#### **IMPACT ON NEW E&P DEVELOPMENTS**

#### **Capital discipline**

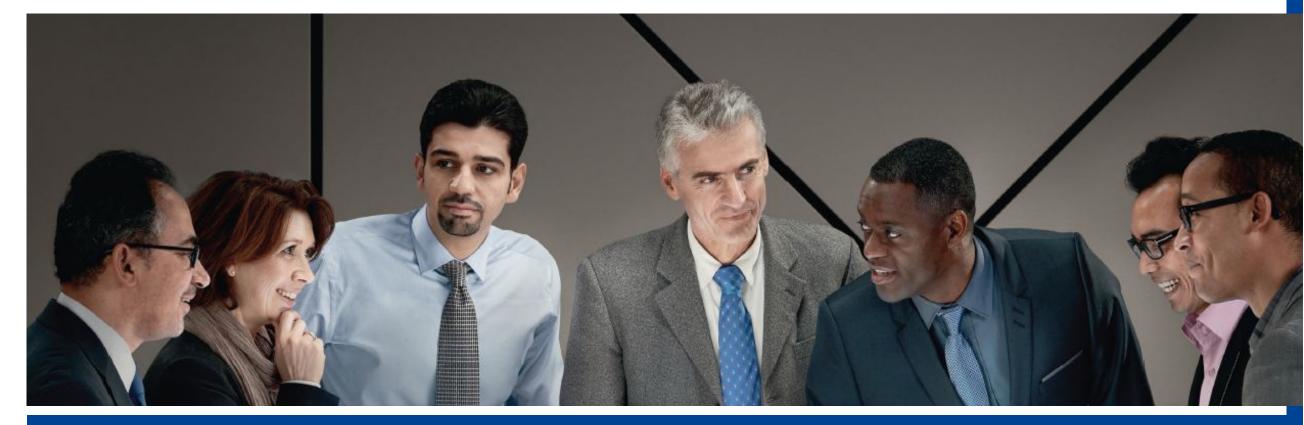
- Strict selection criteria for launching new projects
- Competition for capital allocation

#### Focus on profitability

- Seek improvement in fiscal terms with host countries
- Work with suppliers in order to simplify design, aim at standardization, renegotiate contracts

#### **Portfolio management**

- Review of asset portfolio, including assets at development stage
- Pursue opportunities to rationalize

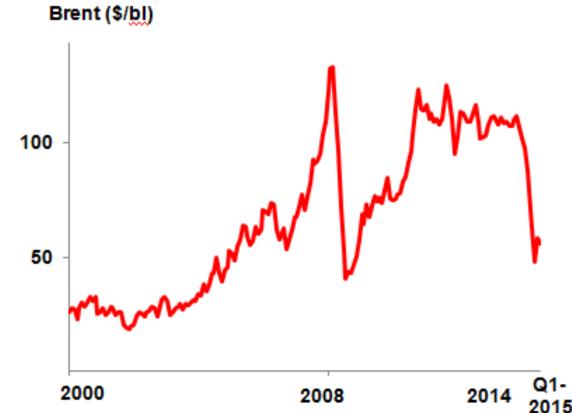


The least profitable projects will be either postponed or cancelled



#### **CONCLUSION**





#### Future E&P development are facing

- ... structural challenges
- ... and pressure from the present-day environment

## The O&G industry has to react, without over-reacting





# Thank you for your attention









# The Future of Natural Gas in Europe

Robert Cross, SVP, Natural Gas Europe, Statoil

# The power market is facing large challenges

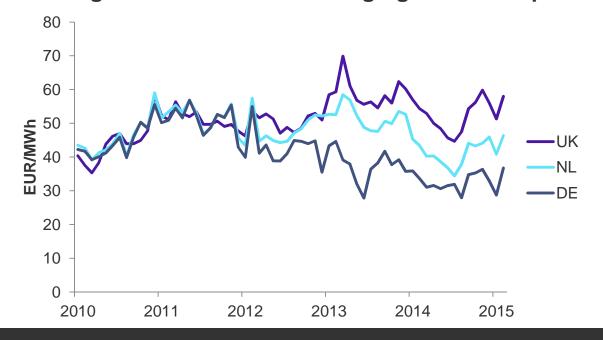
- Diverging national policies are distorting markets
- Use of coal is jeopardising decarbonation efforts
- Renewable subsidies are increasing the costs for end customers
- Uncertain economics for flexible plants are threatening energy security

#### European policies are strongly diverging...

UK		Germany	Germany Pola		Italy		France	
Gas		Gas	Gas		Gas		Gas	
Coal		Coal	Coal		Coal		Coal	
Nuclear		Nuclear Nuclea		r Nuclear		Nuclear		
Renewables		Renewables	Renew	Renewables		newables	Renewables	
Shale gas		Shale gas	Shale g	Shale gas		ıle gas	Shale gas	
	KEY	Very Hostile	Hostile	Neut Mixe		Mild support	Strong support	

Source: Lambert Energy Advisory

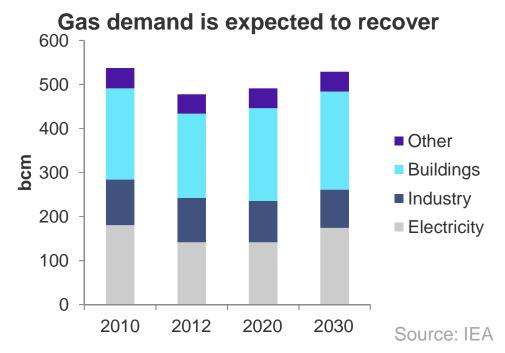
#### ...leading to distortions and diverging wholesale prices



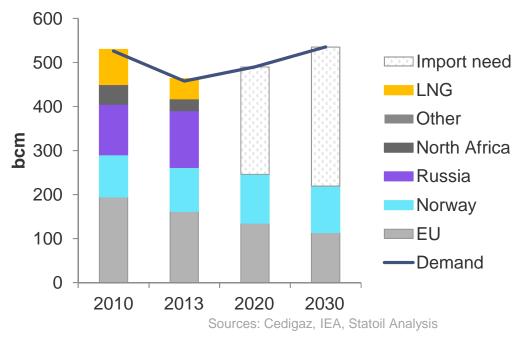


# A strong gas market is needed to ensure security

- Europe needs to attract new imports to replace falling domestic production
- Large investments are needed in gas supply and infrastructure
- European policy-makers are downplaying future role of gas, creating uncertainty for investors





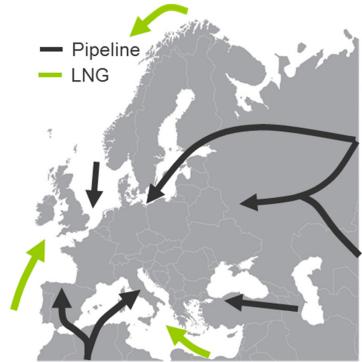




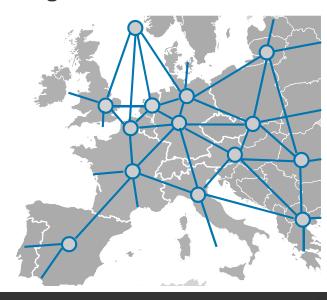
# What does a successful gas market look like?

- Gas remains backbone of heating and industry, and provides Europe with flexible power
- A diversity of import routes, high interconnectivity and liquid hubs in all regions
- A competitive and attractive market with incentives for developing Europe's own gas resources
- A market that is reinforced by strong energy partnerships

#### A diversity of import routes



An integrated market across Europe





## Gas vs coal - realities are about to sink in

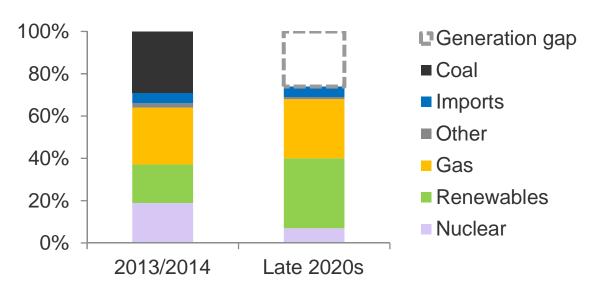
#### The UK

- Party leaders are unanimous on emission reductions
- Joint pledge to "end the use of unabated coal for power generation"

#### Germany

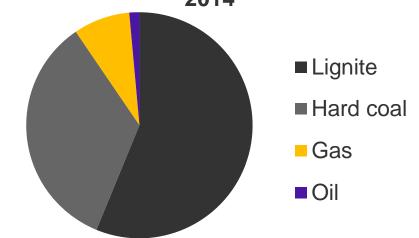
- Growing acknowledgement that emissions targets cannot be reached with current policies
- Policy-makers are evaluating possibilities for reducing coal

# UK power mix: Coal phaseout gives opportunity for gas



Source: Lambert Energy Advisory

# Source of German power sector emissions 2014



Sources: AG Energiebilanzen 2014, Statoil analysis



# Concluding remarks



- Europe continues to face challenges in balancing its energy priorities
- A well-functioning internal market is key
- Growing support for gas as a part of the solution
- A stable and predictable framework is essential





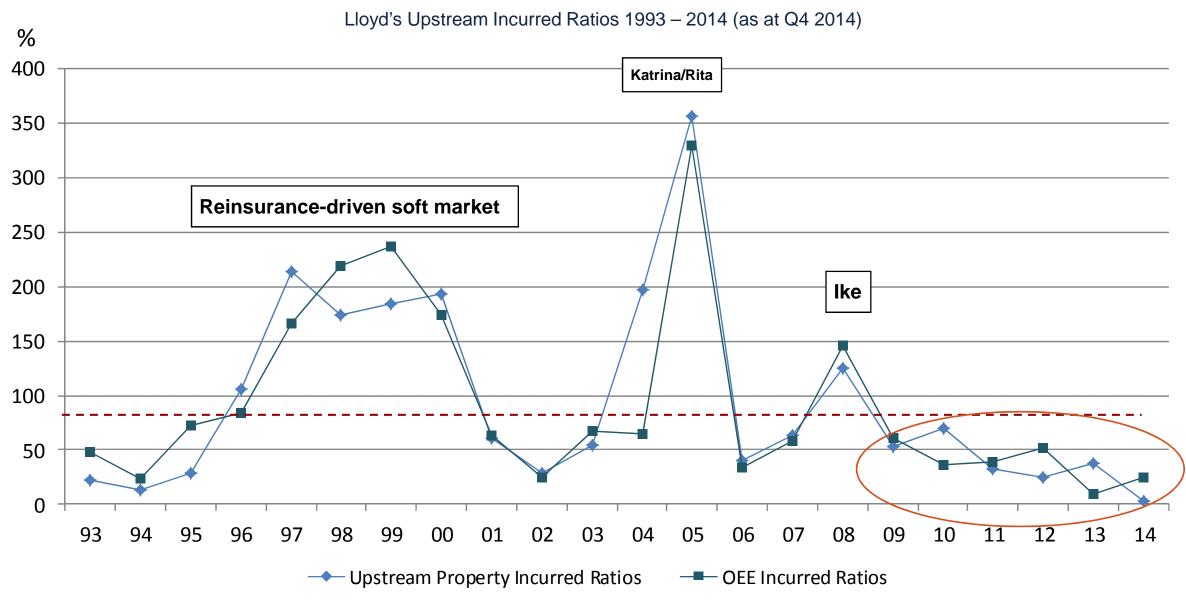
# WILLIS NATURAL RESOURCES

# DENTONS GLOBAL ENERGY SUMMIT 2015

**April 2015** 



# 2014 LOOKS GOOD FOR THE MARKET



Generally accepted level at which the energy portfolios remain profitable

Source: Lloyd's

NB - "Upstream Property" - combination

of ET/EC/EM/EN Audit Codes

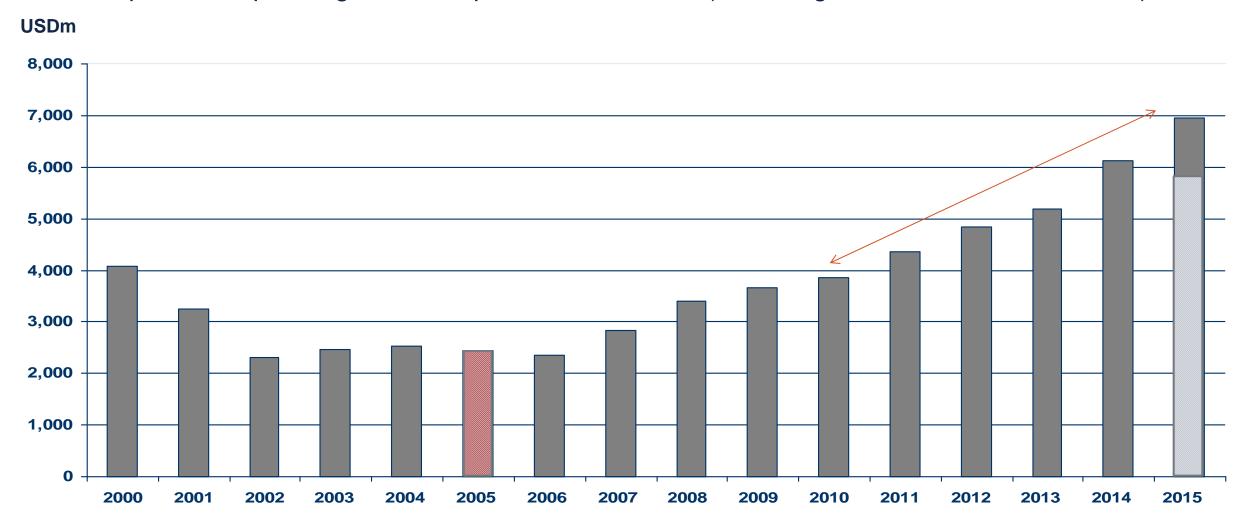
- "OEE" - combination of EW, EY and EZ **Audit Codes** 

Lloyd's Upstream portfolio generally makes money when there are no Gulf of Mexico Windstorm losses, and 2014 was no exception



# **ANOTHER RELENTLESS RISE IN CAPACITY**

Upstream Operating insurer capacities 2000-2015 (excluding Gulf of Mexico Windstorm)



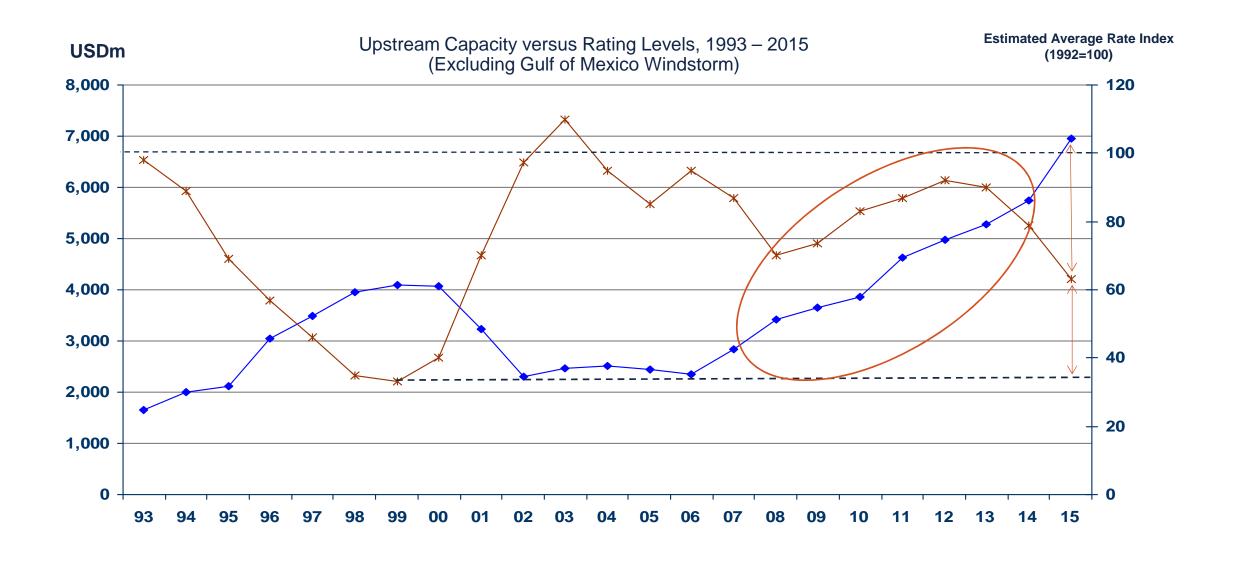
Estimated maximum realistic capacity

The amount of capacity now in play in the Upstream market bears little relation to the amount available only five years ago

Source: Willis



# **THE OUTLOOK FOR 2015**



→ Upstream Capacities — Average Composite Percentage of 1992 rates

The rate of capacity increase has accelerated since last year — as has the rate of overall market softening. But in comparative terms, Upstream rates have still some way to go before reaching the historically low levels of the late 1990s.

Source: Willis



# IN SUMMARY...

- Generally a profitable year:
  - Another Gulf of Mexico windstorm season come and gone
  - Little or no sign of truly catastrophic losses
  - Upstream has had an outstanding year, not a bad one for other sectors either
- Capacities at record highs:
  - No sign of significant alternative capital havens
  - Minimal to negative interest rates
  - Biggest capacity increases:
    - Upstream USD6.9 billion
- Widened leadership choices and competition:
  - Following markets now offering lead lines to secure market share
  - Existing leaders under increased pressure



BUT...



# THE COLLAPSE IN THE OIL PRICE.

#### Oil price collapse produces:

- Cutbacks in Exploration and Production Activity
- Increased mergers and acquisitions within the energy industry (BG/Shell)
- Reduced risk management budgets

No wonder
No wonder



# PREMIUM POOLS ARE ABOUT TO MELT...





# WILLIS NATURAL RESOURCES THANK YOU

**April 2015** 



