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New forces at work in oil supply and demand: Trends, questions, and outlook

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International Oil Summit

www.ief.org



1. Trends

2. Questions

3. Outlook





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2. Questions

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Few imagined in June 2014 that a pronounced price fall was about to follow

Source	Expected price per barrel
IEA	\$128 - \$147
B of A Merrill Lynch	Increase \$40-50
Morgan Stanley	Increase \$35-70
DMS Funds	\$150-160
Today Online	\$140 +
Again Capital	\$125 +
Japan's Astmax Investment	\$125-120
WSJ Market Watch	\$200
Capital Economics	\$140 +



It has been a prolonged price fall...

Figure 1. Historical crude oil front month futures prices







...affected by considerable uncertainty



GLOBAL ENERGY SECURITY THROUGH DIALOGUE



Factors behind the oil price fall

Microeconomic	Supply Demand	 Greater output from the USA, Canada, Brazil, Libya (temporarily), and Iraq OPEC decision not to cut production Weak consumption with unexpectedly large downward revisions through the second half of 2014
Macroeconomic	Exchange rate Interest rate	US dollar appreciation US interest rate expectations



Demand estimates for both the IEA and OPEC were stable until June 2014, when expectations began to change



Figure 1. Revisions of 2014 World Liquids Demand Growth Estimates





Supply growth estimates converged by the second half of the year



Figure 4. Forecast Revisions of 2014 Non-OPEC Liquids Supply Growth





Oil prices are low when the dollar is strong





Oil prices are low when interest rates are high







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Question 1

Is this a crisis?



It depends on how you understand energy security

Oil and gas availability is sufficient

Oil and gas are now more affordable

*But energy access for all remains an unfulfilled goal



It depends on where you stand

Factors affecting **<u>consumer</u>** perspectives

• Subsidies

• Taxes

• Import bill



It depends on where you stand

Factors affecting **producer** perspectives

- Cost structures
- Budget's reliance on oil revenues
- Reserve fund
- Financial market access



Question 2

Is this the birth of a new global oil market structure?



Supply appears to be more elastic

• More **non-OPEC production** in more regions

• Faster (implied) **output response** to price changes

• But **input costs** are higher!



Demand appears to be more elastic

• Consumers have **more options** to find suppliers

• OECD economies are more **energy efficient**

• Fuel switching is a more viable option



Question 3

How much spare capacity is necessary?



It depends on:

• Your estimate of the size of the "average" disruption

• Whether you think the **low-cost or the high-cost producer** should provide it

Who can respond to drastic market fluctuations faster and cost-effectively



Question 4

How must international energy cooperation address the current situation?





It depends on:

• Your objectives

• Your instruments

• Your information



What's your objective? Why?

- A **price** target?
- Lower **volatility**?

• Higher **revenues**?

• A **strategic** gain?

• **Understanding** the current situation?



The IEF is working to improve information available to decision-makers

• Ministerial dialogue

• Promotion of data transparency through **JODI**

• Comparative analysis of energy outlooks

 Analysis of the interaction between physical and financial energy markets and its implication for policy



Raising awareness about new issues: cybersecurity

IEF-PILLSBURY ROUNDTABLE: CYBERSECURITY IN THE GLOBAL ENERGY SECTOR

AN INTERNATIONAL ENERGY FORUM PUBLICATION

9 OCTOBER 2014





Raising awareness about new issues: cybersecurity

• Private information, intellectual property, industrial property and energy networks are all vulnerable to cyber-attacks.

 The nature of cyber-threats changes constantly, presenting an unprecedented challenge in terms of complexity and potential response strategies.

• Contrary to the intuitive focus on information technologies, it is often the people working inside organisations that are at the core of vulnerabilities in the digital realm.





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Demand estimates depend on assumptions about regional economic growth, technological change, and the policy framework







OPEC sees its crude making up for the demand not covered by Non-OPEC; the IEA sees more variation in both supply sources



FIFTH IEA IEF OPEC SYMPOSIUM ON ENERGY OUTLOOKS



Food for thought

- How far will **investment** be constrained by rising costs and lower prices?
- Will more renewables and nuclear enter the **energy mix**?
- Will Asian demand compensate for lower OECD demand?
- What can we expect for **oil supply beyond the US**?
- Is **spare capacity** necessary in a world of more flexible North American supply?









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