# THE PRODUCER CONSUMER DIALOGUE: INSIGHTS INTO THE CONVERSATION

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# Contents

- 1. The producer-consumer dialogue
- 2. Assumptions
- **3. Possible futures**
- 4. Current adjustments
  - Natural gas in Asia

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## 1. The producer-consumer dialogue

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# The IEF membership: neutrality means inclusion

# 76 countries

# **6** continents

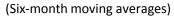
# 90% of global oil & gas markets

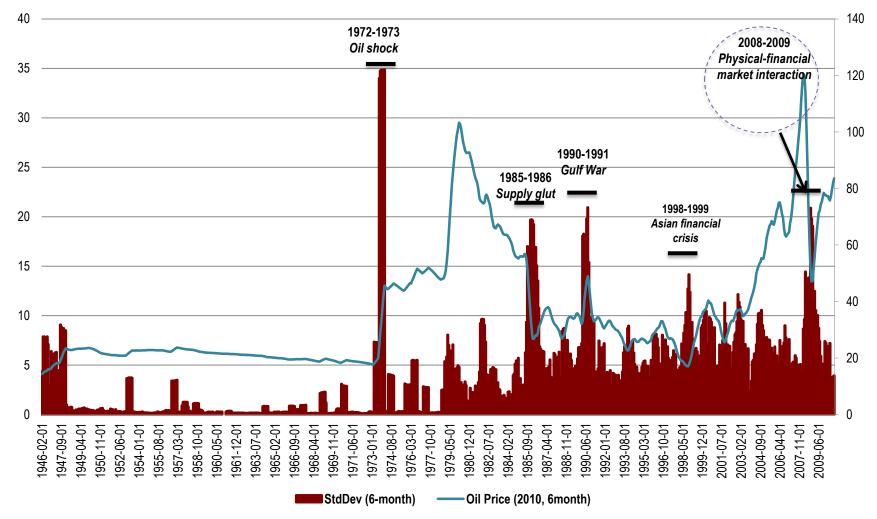
# An **Industry Advisory Committee** of global oil and gas companies participates in the IEF



## Volatility is a key driver of the energy dialogue

Average oil prices and their standard deviation, 1946-2009





## **Recent focus of the energy dialogue**

1. Comparative analysis of energy outlooks

- Promotion of market data transparency (JODI)
- Analysis of the interaction between physical and financial markets

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	Known	Unknown
Known		
Unknown		

	Known	Unknown
Known	What we know	What we know we don't know
Unknown	What we <u>think</u> we know	What we don't know and cannot aspire to know in advance

	Known	Unknown
Known	<ul> <li>Sufficient oil and gas reserves to meet demand</li> <li>Demand is not where supply is found –for the most part</li> </ul>	
Unknown		

	Known	Unknown
Known		
Unknown	<ul> <li>Asia's energy demand will continue to grow faster than the rest of the world's demand</li> <li>OECD energy demand remains flat</li> <li>Germany is not going back to nuclear and Japan is going back, but not completely</li> <li>North American oil and gas output is profitable and safe for the environment</li> </ul>	

	Known	Unknown
Known		<ul> <li>Government policy         <ul> <li>Energy efficiency</li> <li>Environment</li> </ul> </li> <li>Technological change         <ul> <li>Transportation</li> <li>Power generation</li> </ul> </li> <li>Geopolitical developments</li> </ul>
Unknown		

	Known	Unknown
Known		
Unknown		

	Known	Unknown
Known	<ul> <li>Sufficient oil and gas reserves to meet demand</li> <li>Demand is not where supply is found –for the most part</li> </ul>	<ul> <li>Government policy         <ul> <li>Energy efficiency</li> <li>Environment</li> </ul> </li> <li>Technological change         <ul> <li>Transportation</li> <li>Power generation</li> </ul> </li> <li>Geopolitical developments</li> </ul>
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Are

you

sure?

Why?

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## In a nutshell, the <u>new</u> action is about:

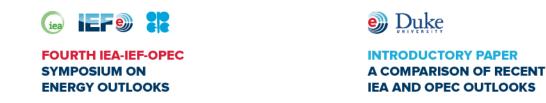
# Asian demand And unconventional oil and gas supply

...and trade

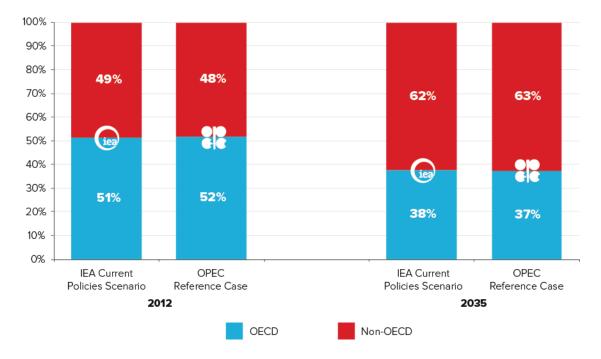
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#### Table 9. Long-term Scenario Key Assumptions

IEA WEO Scenarios	OPEC WOO Scenarios
Current Policies Scenario Only considers policies that have been enacted as of mid-2013	Reference Case Only considers policies that have been enacted
New Policies Scenario Considers both policies in place and commitments announced	Higher Economic Growth Scenario (HEG) Assumes higher economic growth rate than the Reference Case
<b>450 Scenario</b> Assumes policies to be taken to limit the concentration of GHG in the atmosphere to 450 ppm of CO2 equivalent	Lower Economic Growth Scenario (LEG) Assumes lower economic growth rate than the Reference Case
	Upside Supply Scenario (UPS) Looks at possibility of higher non-OPEC supply than the Reference Case



**Figure 16.** OECD and Non-OECD Shares of Liquids Demand in 2012 and Outlook for 2035.



Focus is now outside the OECD



#### Figure 14. World Primary Energy in 2010 and Outlook for 2035

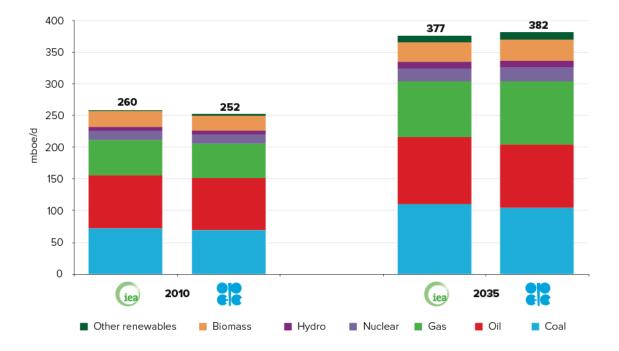
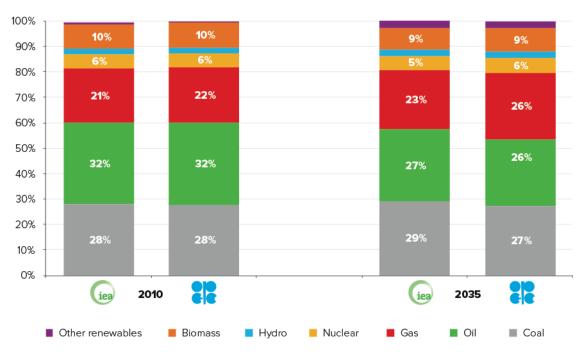




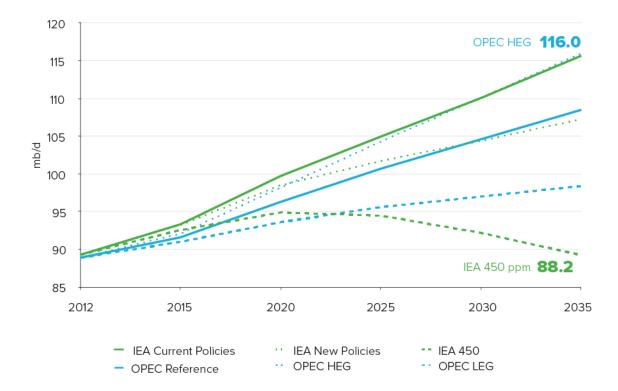
Figure 15. World Primary Energy Fuel Shares in 2010 and Outlook for 2035



Focus on the share of natural gas, mainly for electricity



Figure 17. World Liquids Demand Projections in Various Scenarios





FOURTH IEA-IEF-OPEC SYMPOSIUM ON ENERGY OUTLOOKS

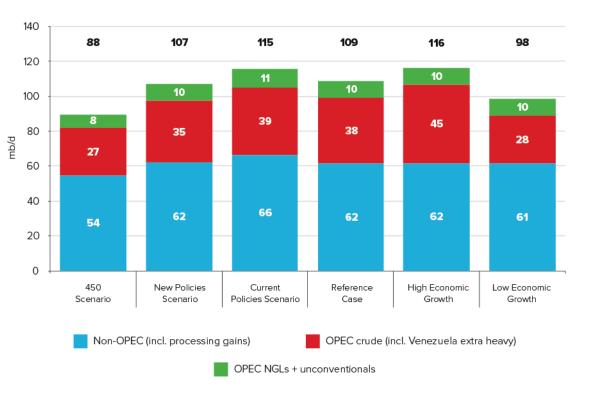


INTRODUCTORY PAPER A COMPARISON OF RECENT IEA AND OPEC OUTLOOKS

#### It depends on what you assume about:

- Economic growth
- Technology
- Policies
- Call on OPEC crude

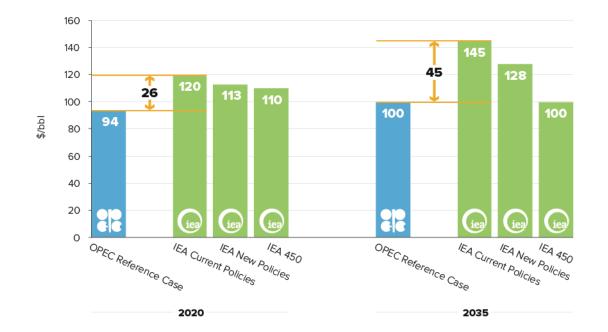
#### Figure 19. 2035 Liquids Supply Outlook in Different Scenarios



iea



Figure 13. Long-Term Oil Price Assumptions (real 2012 US\$)



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#### Four main consumer and producer strategies around natural gas

	Consumers	Producers
1. Size and composition of market		
2. Vertical integration		
3. Competition and contracts		
4. Cooperation and partnerships		

	Consumers	Producers
1. Size and composition	<ul> <li>Improve operational capability to receive all LNG grades</li> </ul>	<ul> <li>Improve operational capability to provide all LNG grades</li> </ul>
of market	Develop various gas demand types	Develop various gas supply types
	Procure through a single aggregator	

	Consumers	Producers
1. Size and composition	<ul> <li>Improve operational capability to receive all LNG grades</li> </ul>	<ul> <li>Improve operational capability to provide all LNG grades</li> </ul>
2. Vertical	<ul> <li>Expand participation in upstream segment</li> </ul>	Expand participation in downstream segment
integration	-	Expand participation throughout LNG value
	<ul> <li>Expand participation throughout LNG value chain</li> </ul>	chain

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	Consumers	Producers
1. Size and composition	<ul> <li>Improve operational capability to receive all LNG grades</li> </ul>	<ul> <li>Improve operational capability to provide all LNG grades</li> </ul>
3. Competition and contracts	<ul> <li>Diversify supply sources by geography and substitutes</li> </ul>	<ul> <li>Diversify demand sources by geography</li> <li>Keen destination restrictions</li> </ul>
	Remove destination restrictions	<ul> <li>Keep destination restrictions</li> <li>Keep long-term contracts</li> </ul>
	Review and diversify contract types	
	Develop spot markets	

• Signaling and awareness campaigns

	Consumers	Producers
1. Size and composition of market	<ul> <li>Improve operational capability to receive all LNG grades</li> </ul>	<ul> <li>Improve operational capability to provide all LNG grades</li> </ul>
4. Cooperation and partnerships	Create multilateral study group	Experience sharing through GECF

• Signaling and awareness campaigns

	Consumers	Producers
1. Size and composition of market	<ul> <li>Improve operational capability to receive all LNG grades</li> <li>Develop various gas demand types</li> <li>Procure through a single aggregator</li> </ul>	<ul> <li>Improve operational capability to provide all LNG grades</li> <li>Develop various gas supply types</li> </ul>
2. Vertical integration	<ul> <li>Expand participation in upstream segment</li> <li>Expand participation throughout LNG value chain</li> </ul>	<ul> <li>Expand participation in downstream segment</li> <li>Expand participation throughout LNG value chain</li> </ul>
3. Competition and contracts	<ul> <li>Diversify supply sources by geography and substitutes</li> <li>Remove destination restrictions</li> <li>Review and diversify contract types</li> <li>Develop spot markets</li> </ul>	<ul> <li>Diversify demand sources by geography</li> <li>Keep destination restrictions</li> <li>Keep long-term contracts</li> </ul>
4. Cooperation and partnerships	Create multilateral study group	<ul> <li>Experience sharing through GECF</li> <li>Signaling and awareness campaigns</li> </ul>

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# **Final remarks**