INTERNATIONAL ENERGY AGENCY

World Energy Outlook 2008

Aad van Bohemen

IEA-EU-HANDA Workshop on the Establishment of Emergency Oil Stocks in Southeast Europe, Croatia, 28-29 May 2009

The International Energy Agency

World Energy Outlook 2008

28 member countries

		Poland
Australia	Austria	Belgium
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Korea	Greece	Germany
New Zealand	Hungary	Ireland
United States	Italy	Luxembourg
Norway	The Netherlands	Portugal
Switzerland	Slovakia	Spain
Turkey	Sweden	United Kingdom

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World primary energy demand in the Reference Scenario: this is unsustainable!

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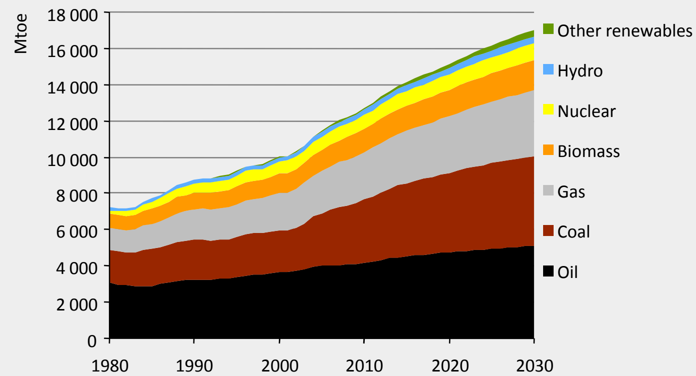

World energy demand expands by 45% between now and 2030 – an average rate of increase of 1.6% per year – with coal accounting for more than a third of the overall rise

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Reference Scenario: Incremental world fossil-fuel production

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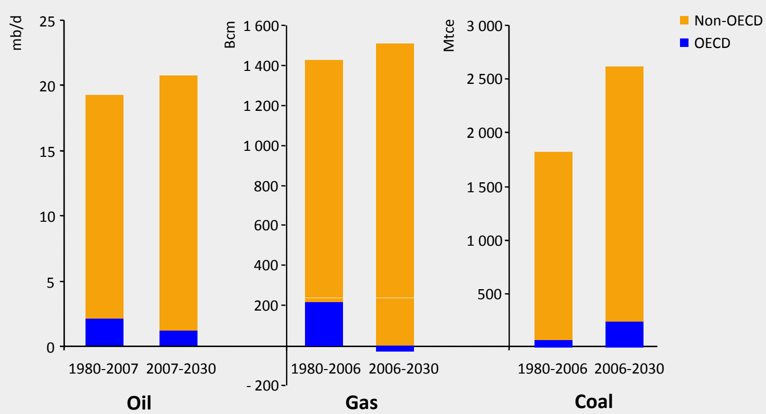

Almost all incremental oil & gas comes from non-OECD regions, resulting in major structural changes to the industry with implications for global energy markets

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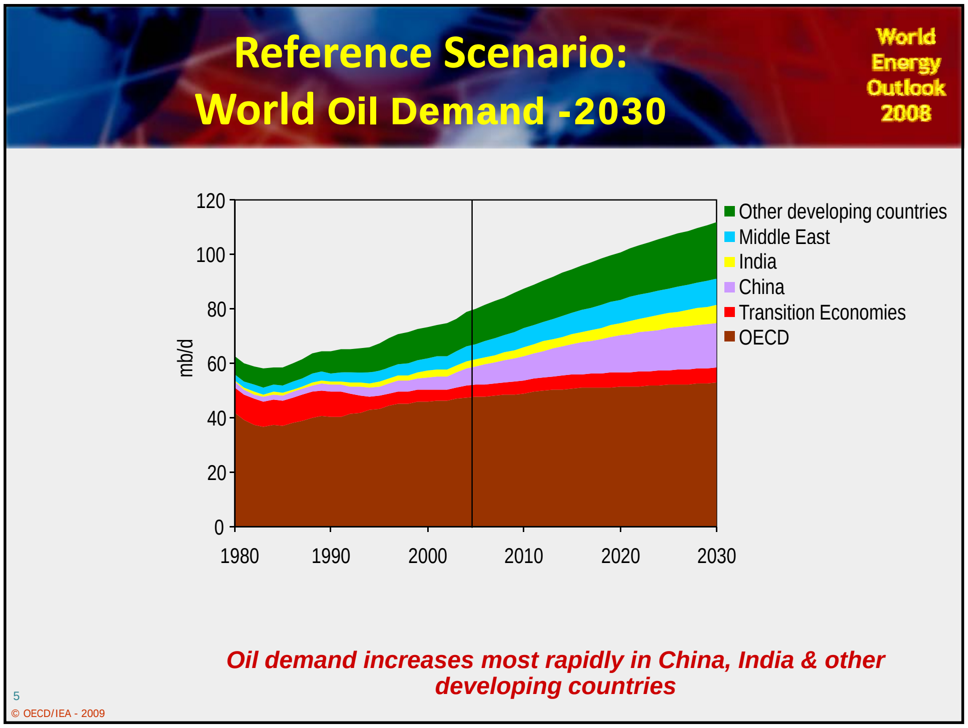
Reference Scenario:
World Oil Demand -2030
World Energy Outlook 2008
120
100
80
60
40
20
0
mb/d
1980
1990
2000
2010
2020
2030
Other developing countries
Middle East
India
China
Transition Economies
OECD
Oil demand increases most rapidly in China, India & other developing countries
5
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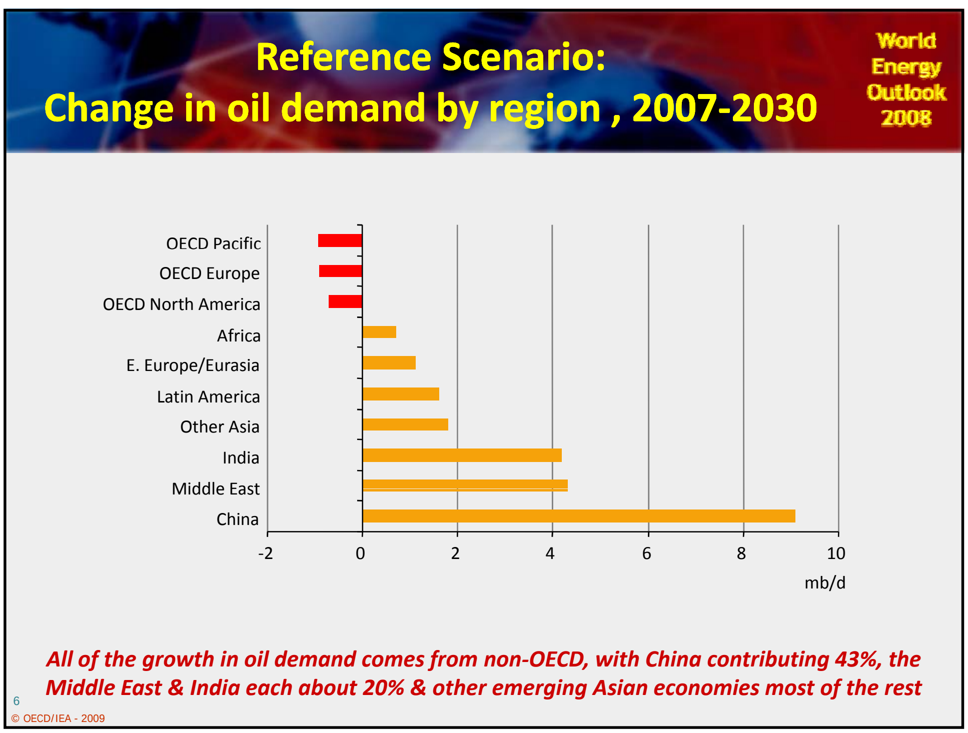
Reference Scenario:
Change in oil demand by region , 2007-2030
World Energy Outlook 2008
OECD Pacific
OECD Europe
OECD North America
Africa
E. Europe/Eurasia
Latin America
Other Asia
India
Middle East
China
-2
0
2
4
6
8
10
mb/d
All of the growth in oil demand comes from non-OECD, with China contributing 43%, the Middle East & India each about 20% & other emerging Asian economies most of the rest
6
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Changing oil import-balance underscores need for cooperation

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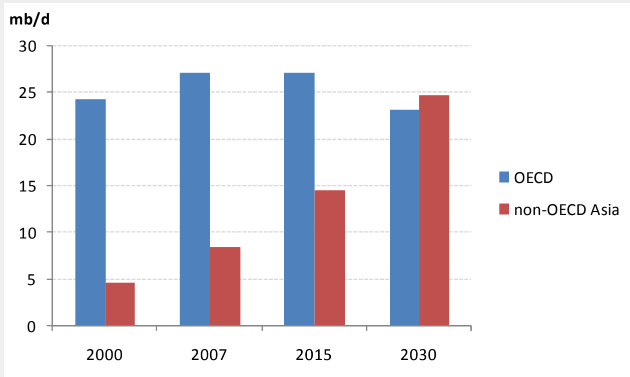
Net oil imports



China's and India's growing net imports heightens the importance of developing a global approach to energy security.

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Reference Scenario: World oil production by OPEC/non-OPEC

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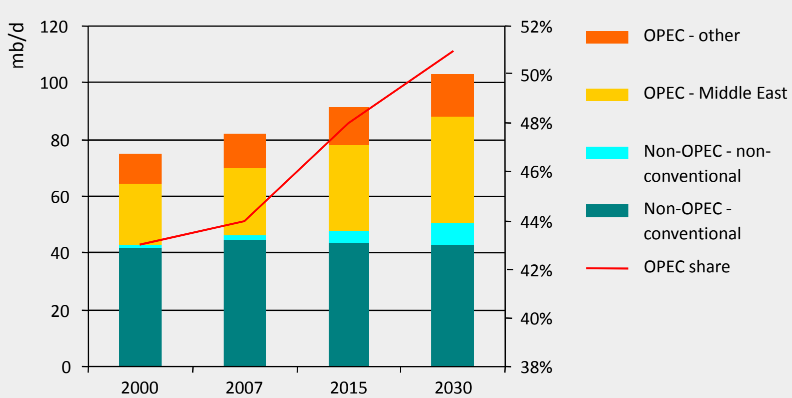

Production rises to 104 mb/d in 2030, with Middle East OPEC taking the lion's share of oil market growth as conventional non-OPEC production declines

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Mind the gap……

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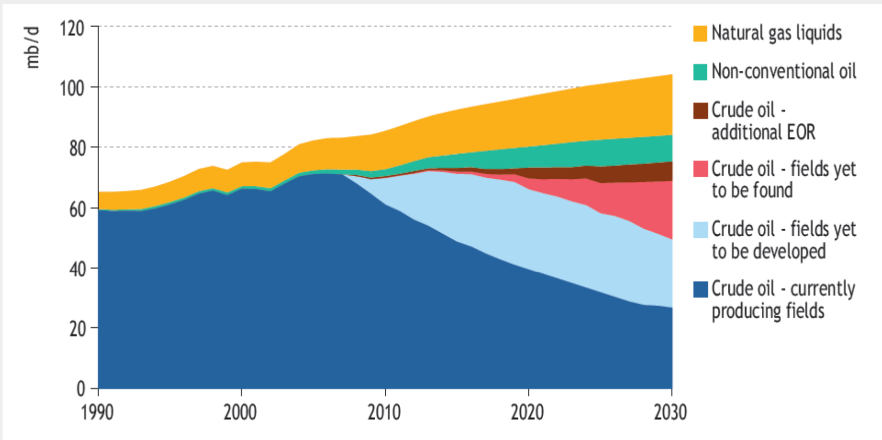
World oil production by source in the Reference Scenario



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Total oil production in 2030 by scenario

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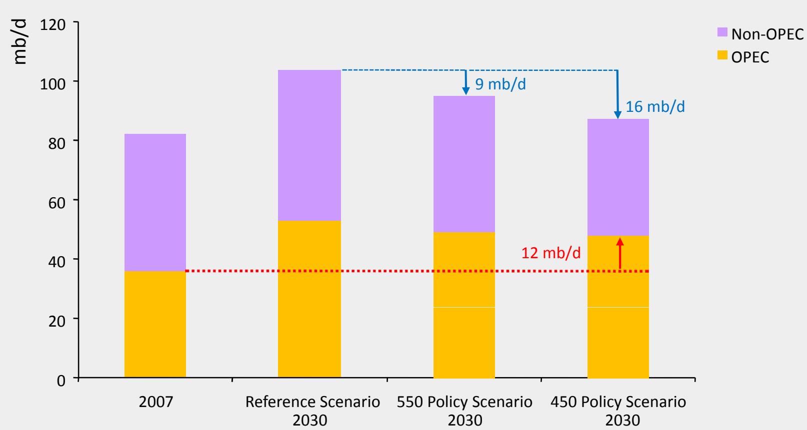

Curbing CO_2 emissions would improve energy security by cutting demand for fossil fuels, but even in the 450 Policy Scenario, OPEC production increases by 12 mb/d from now to 2030

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