

Asian Energy Outlook up to 2030

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Fourth Asian Roundtable:
Sustainable Growth and Energy Interdependence

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- Japan's huge earthquake, devastating tsunami and subsequent nuclear crisis
- North Africa & Middle East witnessed unrest in a number of countries

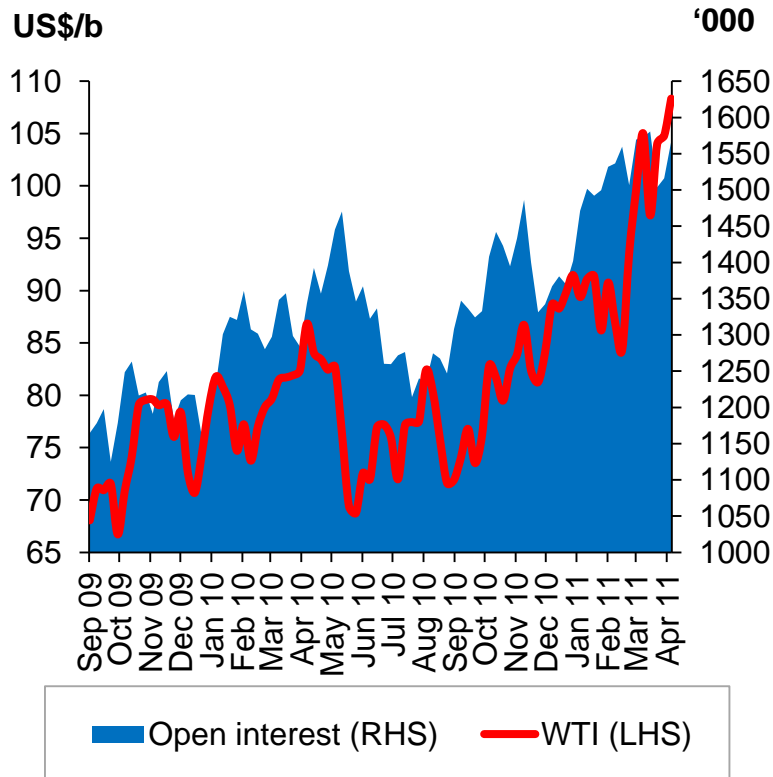
These events, alongside the continued uncertainties surrounding the global economy, have impacted oil and energy markets...

- No shortage of oil
- Stock levels are high
- Spare capacity remains sufficient
- Refining system has adequate flexibility
- OPEC current production level at what it was in December

...but rising prices are a concern



Nymex WTI price vs. Open interest



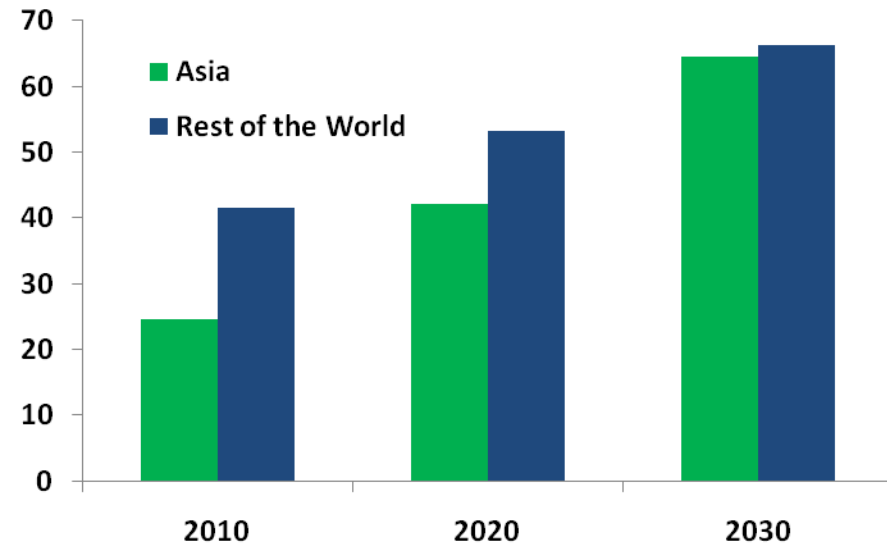
- Price rises even more pronounced at consumer-end
- Might consuming countries consider revising down high taxation levels, at least temporarily?

- Speculator activity on Nymex surged to record highs

Asia becoming increasingly important in terms of economy and energy demand



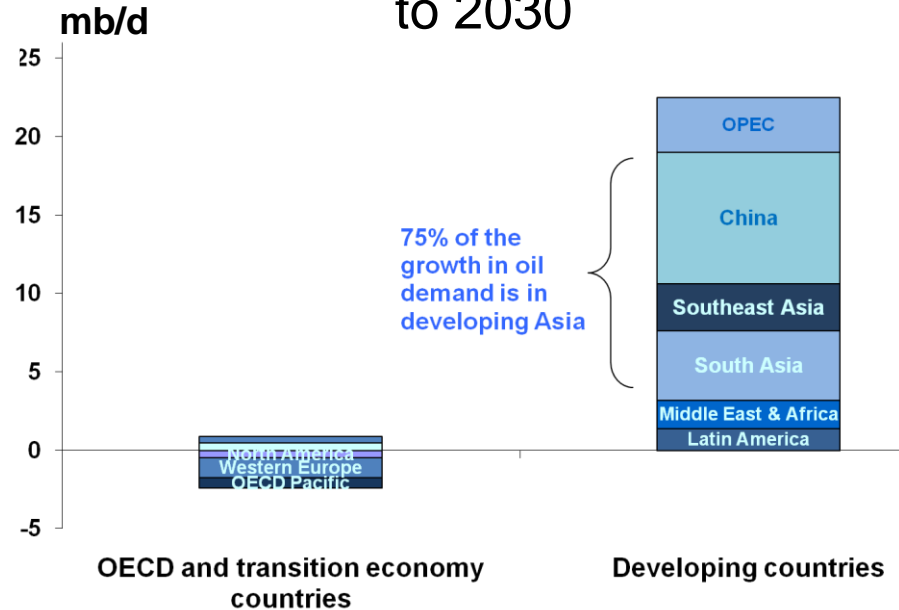
\$(2005) trillion Real GDP



Asian GDP will rise from 37% of World total to 49% by 2030, and 52% by 2035

And three quarters of the net growth in oil demand to 2030 will be in developing Asia

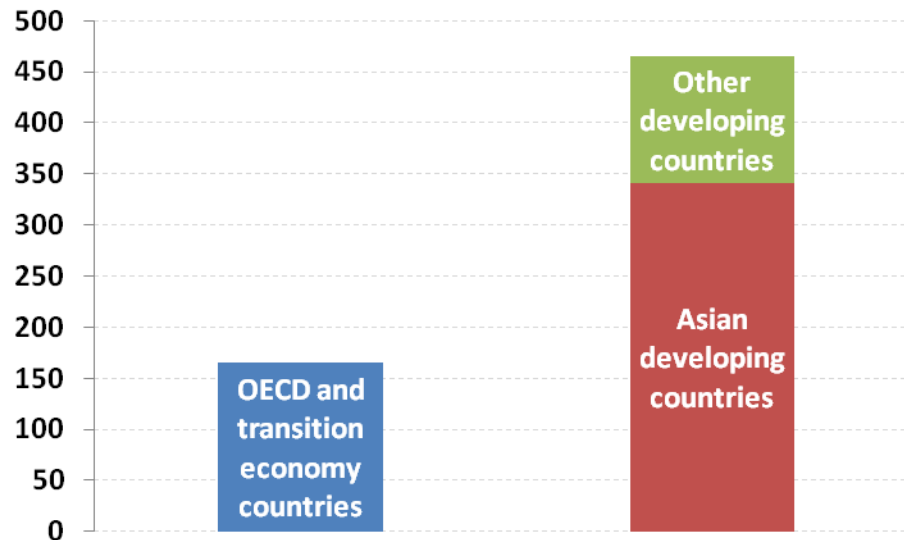
Growth in oil demand to 2030



Energy use will continue to rise – but energy poverty will remain a major issue



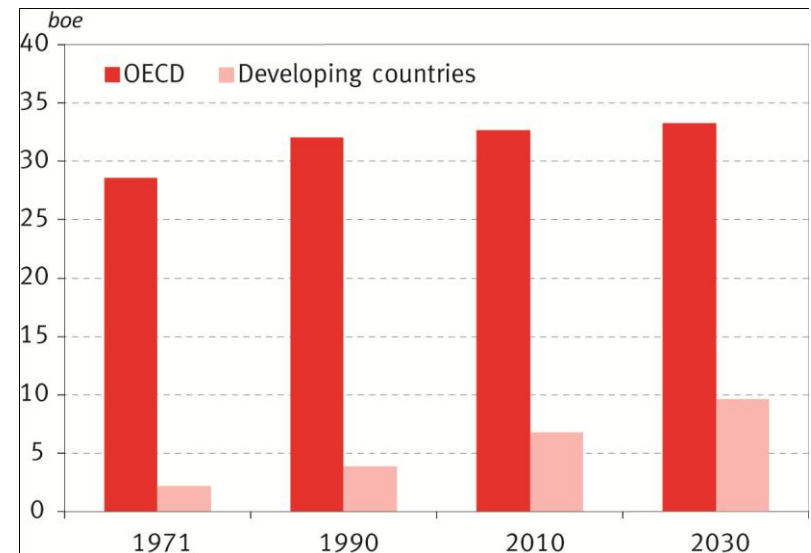
Increase in number of passenger cars, 2007-2030



Significant increase in vehicles expected in Asia

But energy use per capita in developing countries stays well below OECD levels

Energy use per capita



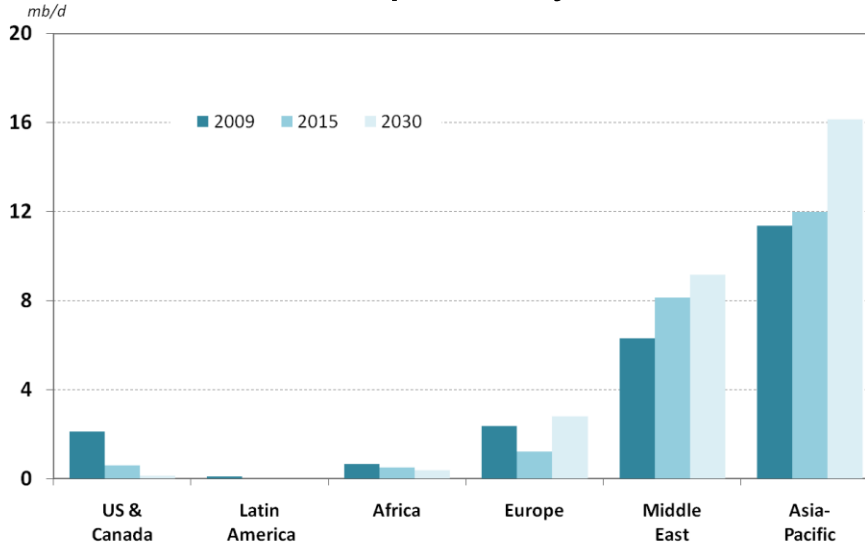
- Intertwined and mutually supportive pillars of economic development, social progress and the protection of the environment
- Economic and social development and poverty eradication are the first and overriding priorities of developing countries
- Developed countries should take the lead in combating climate change and the subsequent adverse effects...
- ...However, Asian countries, both developed and developing, already playing a role

- Clear from both production and resource perspectives
- OPEC Member Countries are expected to invest \$290 billion in upstream projects between 2011-2015
- Resources are plentiful: in the Middle East alone there are over 750 billion barrels in proven crude oil reserves

Middle East–Asia interdependence set to grow



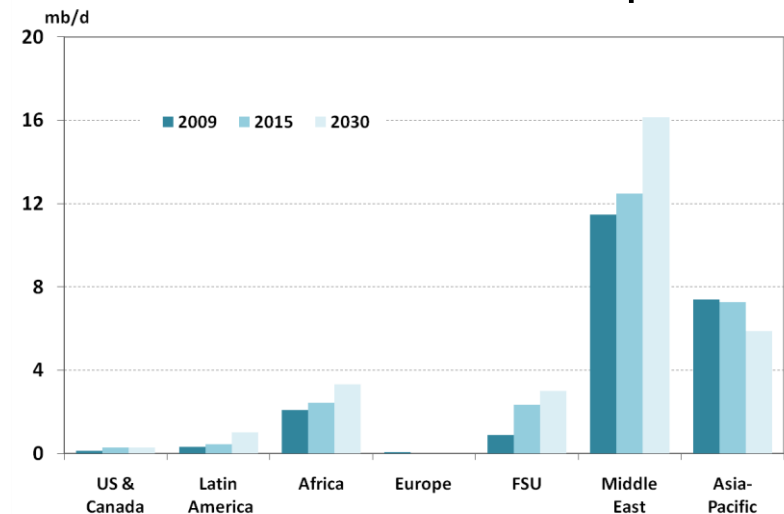
Middle East exports by destination



...while Asia-Pacific imports of crude oil will continue to be mainly from the Middle East

By 2030 the Asia-Pacific will account for over 16 mb/d of Middle East crude oil exports...

Asia-Pacific crude oil imports



- Countries and regions facing an array of challenges
- No-one can afford to act alone
- Goal must be stability to allow the industry to develop and deliver energy in an efficient and economic manner
- Benefit producers and consumers
- Deliver a better standard of living for all

Thank you