

Energy Outlook – Global/Asian Region

Oil and Gas Energy Forum

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DEFINITIONS AND CAUTIONARY NOTE

Resources: Our use of the term "resources" in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves or SEC proven mining reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.

The companies in which Royal Dutch Shell plc directly and indirectly owns investments are separate entities. In this presentation "Shell", "Shell group" and "Royal Dutch Shell" are sometimes used for convenience where references are made to Royal Dutch Shell plc and its subsidiaries in general. Likewise, the words "we", "us" and "our" are also used to refer to subsidiaries in general or to those who work for them. These expressions are also used where no useful purpose is served by identifying the particular company or companies. "Subsidiaries", "Shell subsidiaries" and "Shell companies" as used in this presentation refer to companies in which Royal Dutch Shell either directly or indirectly has control, by having either a majority of the voting rights or the right to exercise a controlling influence. The companies in which Shell has significant influence but not control are referred to as "associated companies" or "associates" and companies in which Shell has joint control are referred to as "jointly controlled entities". In this presentation, associates and jointly controlled entities are also referred to as "equity-accounted investments". The term "Shell interest" is used for convenience to indicate the direct and/or indirect (for example, through our 24% shareholding in Woodside Petroleum Ltd.) ownership interest held by Shell in a venture, partnership or company, after exclusion of all third-party interest.

This presentation contains forward-looking statements concerning the financial condition, results of operations and businesses of Royal Dutch Shell. All statements other than statements of historical fact are, or may be deemed to be, forward-looking statements. Forward-looking statements are statements of future expectations that are based on management's current expectations and assumptions and involve known and unknown risks and uncertainties that could cause actual results, performance or events to differ materially from those expressed or implied in these statements. Forward-looking statements include, among other things, statements concerning the potential exposure of Royal Dutch Shell to market risks and statements expressing management's expectations, beliefs, estimates, forecasts, projections and assumptions. These forward-looking statements are identified by their use of terms and phrases such as "anticipate", "believe", "could", "estimate", "expect", "intend", "may", "plan", "objectives", "outlook", "probably", "project", "will", "seek", "target", "risks", "goals", "should" and similar terms and phrases. There are a number of factors that could affect the future operations of Royal Dutch Shell and could cause those results to differ materially from those expressed in the forward-looking statements included in this presentation, including (without limitation): (a) price fluctuations in crude oil and natural gas; (b) changes in demand for Shell's products; (c) currency fluctuations; (d) drilling and production results; (e) reserves estimates; (f) loss of market share and industry competition; (g) environmental and physical risks; (h) risks associated with the identification of suitable potential acquisition properties and targets, and successful negotiation and completion of such transactions; (i) the risk of doing business in developing countries and countries subject to international sanctions; (j) legislative, fiscal and regulatory developments including potential litigation and regulatory measures as a result of climate changes; (k) economic and financial market conditions in various countries and regions; (I) political risks, including the risks of expropriation and renegotiation of the terms of contracts with governmental entities, delays or advancements in the approval of projects and delays in the reimbursement for shared costs; and (m) changes in trading conditions. All forward-looking statements contained in this presentation are expressly qualified in their entirety by the cautionary statements contained or referred to in this section. Readers should not place undue reliance on forward-looking statements. Additional factors that may affect future results are contained in Royal Dutch Shell's 20-F for the year ended 31 December, 2011 (available at www.shell.com/investor and www.sec.gov). These factors also should be considered by the reader. Each forward-looking statement speaks only as of the date of this presentation, 21 April 2012. Neither Royal Dutch Shell nor any of its subsidiaries undertake any obligation to publicly update or revise any forward-looking statement as a result of new information, future events or other information. In light of these risks, results could differ materially from those stated, implied or inferred from the forward-looking statements contained in this presentation. There can be no assurance that dividend payments will match or exceed those set out in this presentation in the future, or that they will be made at all.

We use certain terms in this presentation, such as resources, that the United States Securities and Exchange Commission (SEC) guidelines strictly prohibit us from including in filings with the SEC. U.S. Investors are urged to consider closely the disclosure in our Form 20-F, File No 1-32575, available on the SEC website www.sec.gov. You can also obtain these forms from the SEC by calling 1-800-SEC-0330.

AGENDA

- PART 1: TRENDS AND DRIVERS
- PART 2: ENERGY DRIVERS
- PART 3: ASIA ENERGY DEVELOPMENTS
- PART 4: SHELL ENERGY SCENARIOS TO 2050 SIGNALS & SIGNPOSTS

PART 1

TRENDS AND DRIVERS

SIGNALS & SIGNPOSTS – A SNAPSHOT

Intensified economic cycles following the end of the 'great moderation'

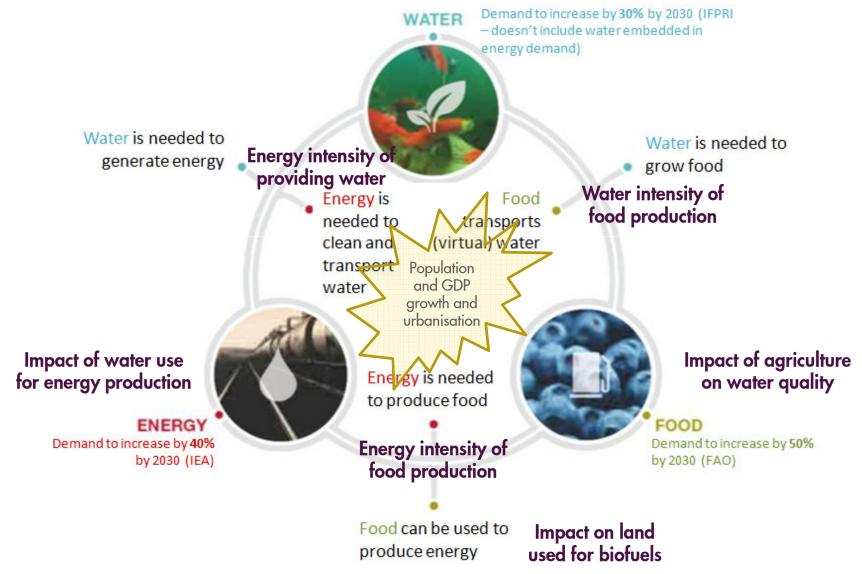
Heightened political instability

We have entered an 'era of volatile transitions'

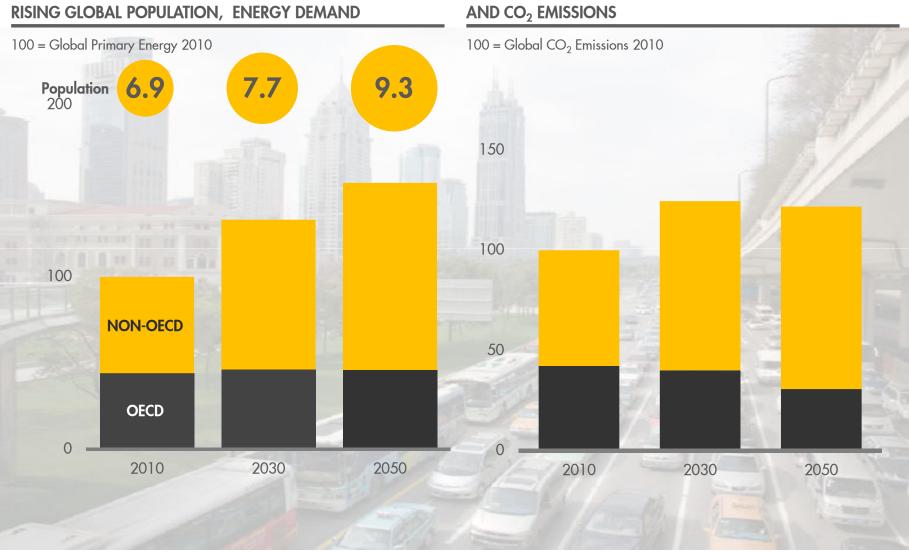
Significant demographic transitions – urbanisation New political consensus building – a *minilateral* world

New planetary boundaries defined

FOOD – WATER – ENERGY



POPULATION AND PROSPERITY DRIVES ENERGY DEMAND



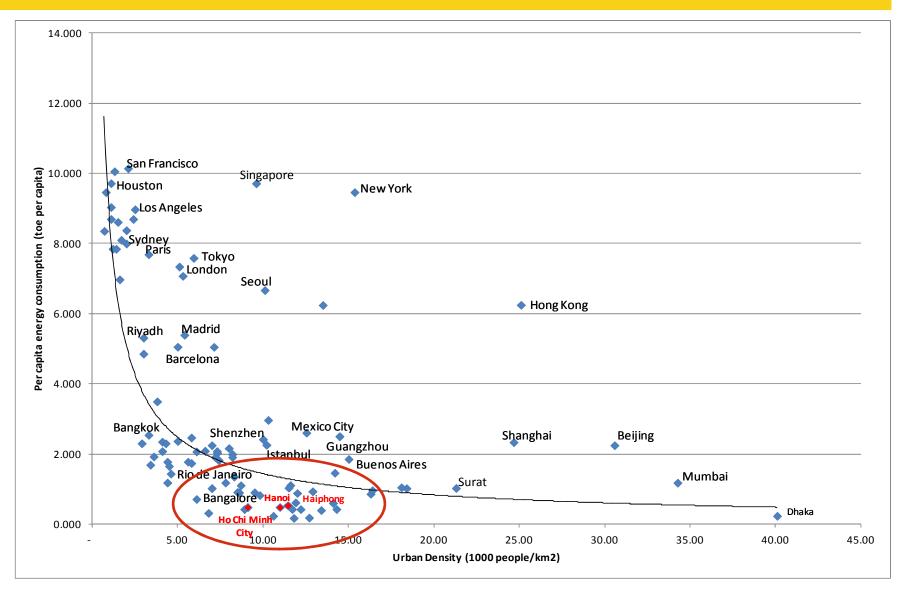
SOURCE: SHELL ESTIMATES, UN

SOURCE: SHELL ESTIMATES

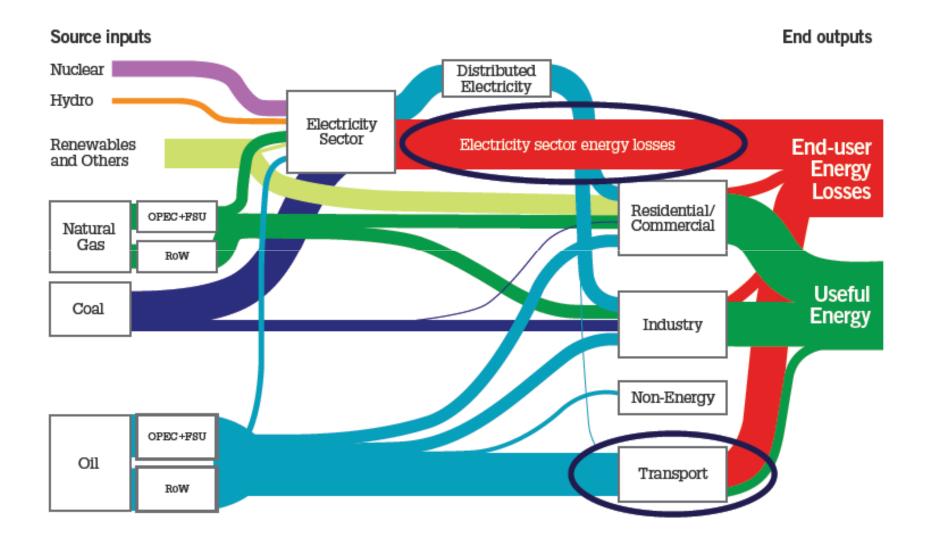
IMPACTS OF AN URBAN WORLD

- 75% of world's population in cities by 2050
- Urban development decisions lock in city energy profile in the early stages
- Urban planning decisions historically reflect energy prices at the time of development (urban sprawl in the US linked to low gasoline prices)
- Can cities be the saviour of the global energy crunch extra-ordinary demand moderation?

DENSER CITIES CONSUME LESS ENERGY



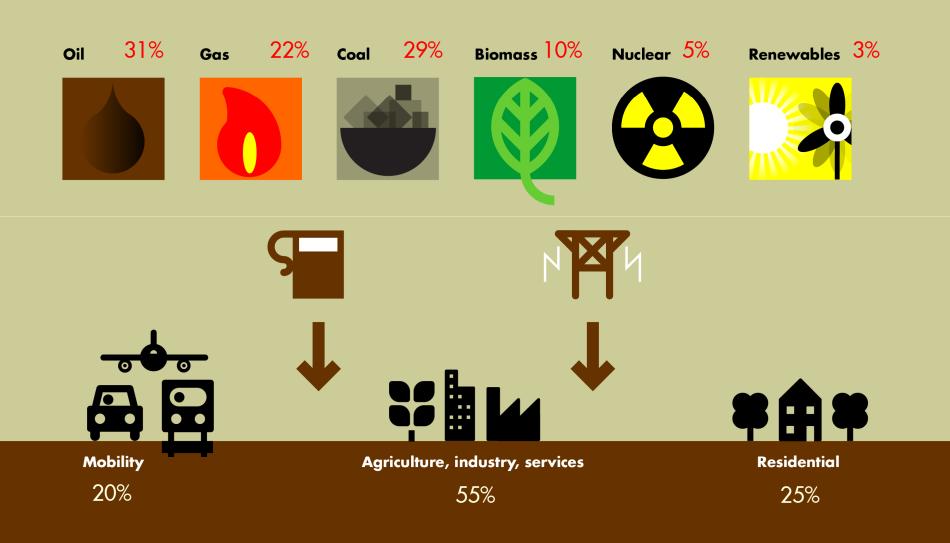
CITIES IN THE ENERGY WEB





ENERGY DRIVERS

THE ENERGY SYSTEM TODAY SETS THE CONTEXT FOR THE FUTURE

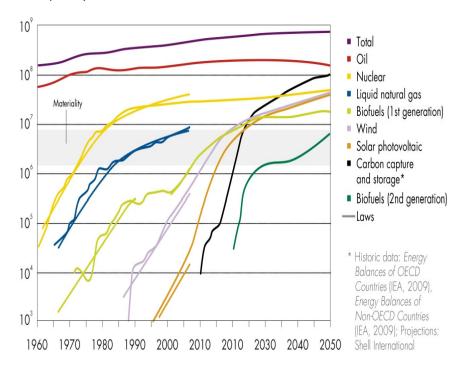


World population 7 bln; 50% in urban environment

HOW FAST CAN WE CHANGE?

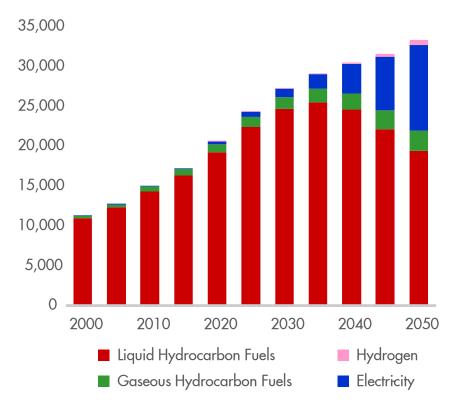
TECHNOLOGIES TAKE DECADES TO MATURE

Terajoule/yr

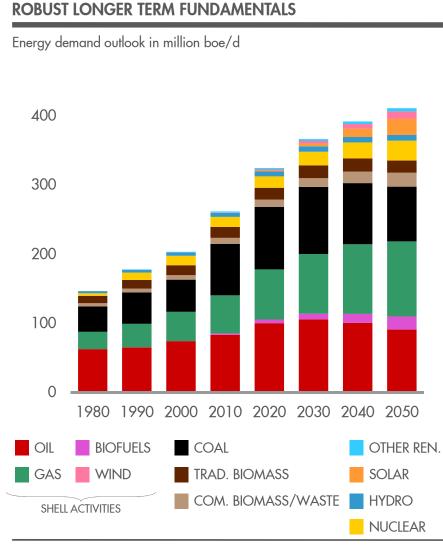


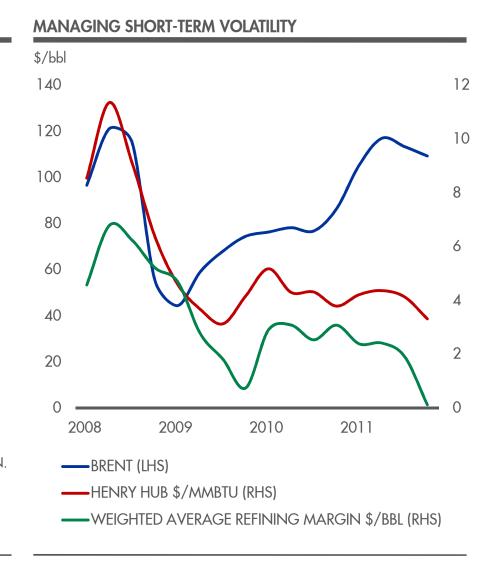
EXAMPLE: PASSENGER ROAD TRANSPORT

Billion vehicle kilometres



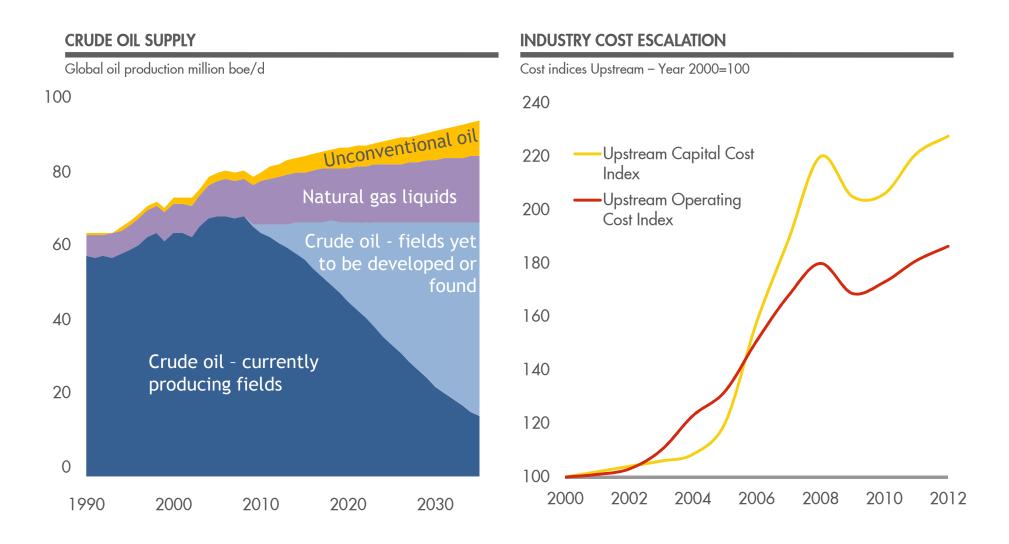
ENERGY INVESTMENT FUNDAMENTALS POSITIVE





SOURCE: SHELL ANALYSIS

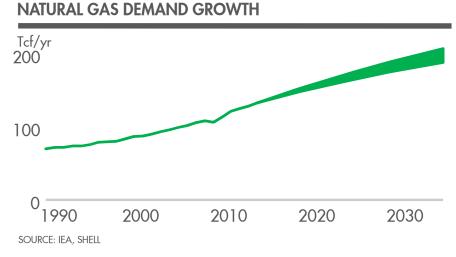
OIL MARKET



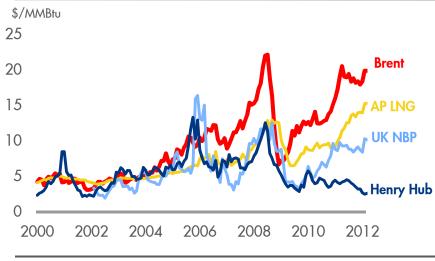
SOURCE: IEA WEO2010

SOURCE: IHS-CERA

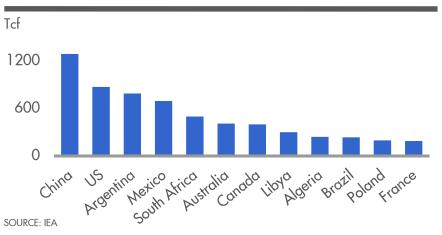
NATURAL GAS OUTLOOK



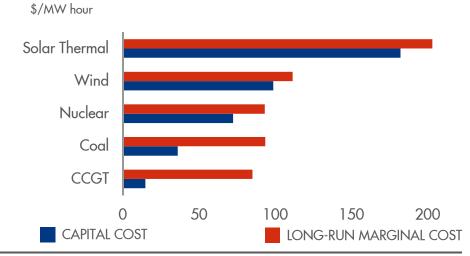
NATURAL GAS REGIONAL PRICES



UNCONVENTIONAL GAS RESOURCES



ATTRACTIVE ECONOMICS FOR ELECTRICITY PRODUCERS



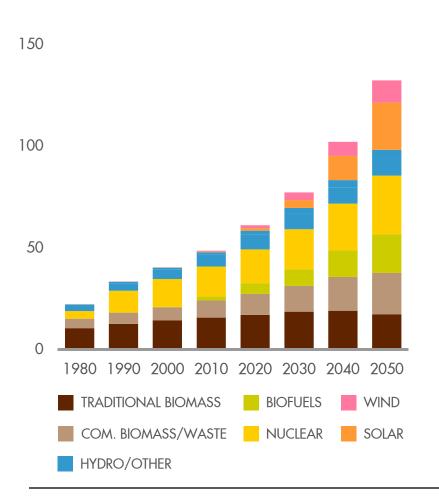
SOURCE: PLATTS, NYMEX

SOURCE: WOODMACKENZIE; SHELL ANALYSIS BASED ON EU DATA

ALTERNATIVE ENERGY

NON FOSSIL ENERGY GROWTH

Energy demand outlook in million boe/d



SHELL BIOFUELS - BRAZIL



SOURCE: IEA, SHELL

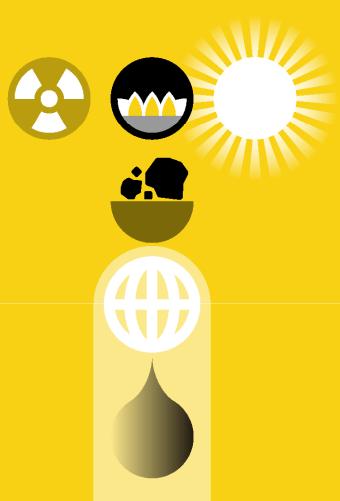
PART 3

ASIAN ENERGY DEVELOPMENTS

ASIAN ENERGY DEVELOPMENTS

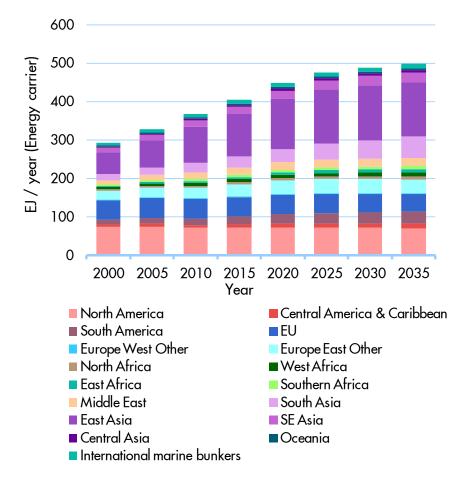
Asia energy outlooks under current trends

Energy Mix



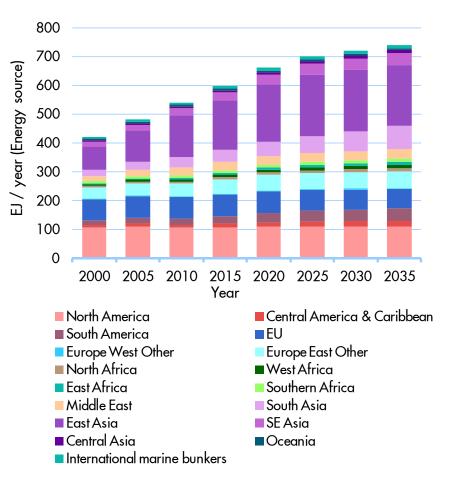
This outlook is based on many assumptions and interpretations of possible future choices from today's perspective. Many uncertainties remain and many alternatives to this outlook are possible. It should be seen as a starting point for discussion and Shell by no means advocates this outlook as a preferred or inevitable one.

ASIA'S SHARE IN WORLD TFC AND TPE



World - Total Final Consumption

World - Total Primary Energy

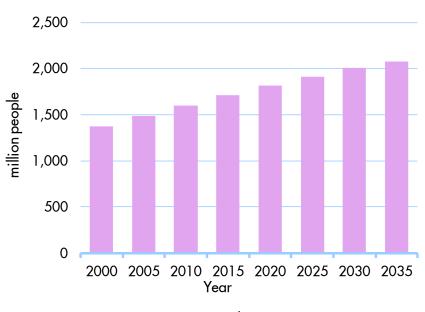


FSB Energy - Shell WEM v2.4.13 - BBC12 - Normal Efficiency

FSB Energy - Shell WEM v2.4.13 - BBC12 - Normal Efficiency

Note: This outlook is an example only as it is based on extrapolation of current trends and assumptions around possible future choices. Many uncertainties remain and many alternatives to this outlook are possible therefore.

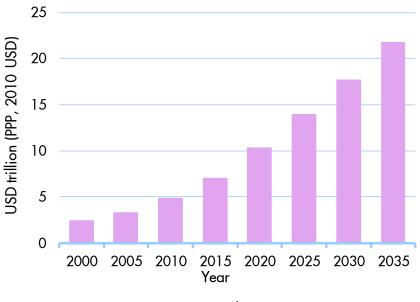
SOUTH ASIA POPULATION AND GDP



World - Population

South Asia

World - GDP



South Asia

FSB Energy - Shell WEM v2.4.13 - BBC12 - Normal Efficiency

South Asia

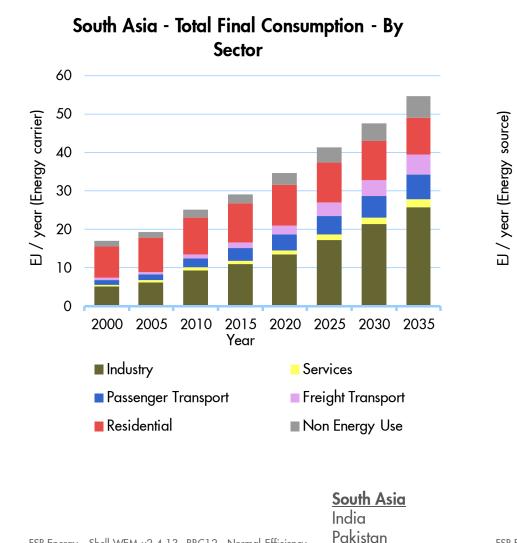
India Pakistan Bangladesh Rest of South Asia

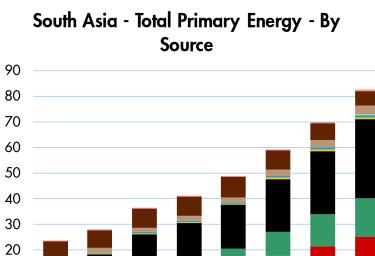
FSB Energy - Shell WEM v2.4.13 - BBC12 - Normal Efficiency

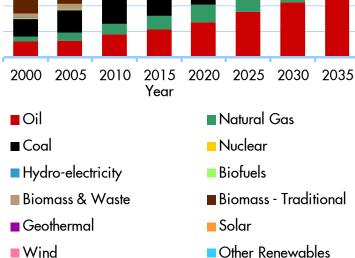
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SOUTH ASIA TFC AND TPE







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FSB Energy - Shell WEM v2.4.13 - BBC12 - Normal Efficiency

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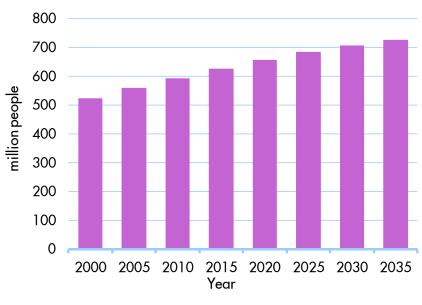
Bangladesh

Rest of South Asia

10

0

SE ASIA POPULATION AND GDP





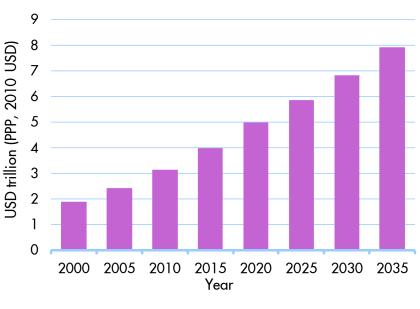
World - Population

SE Asia

Singapore

SE Asian population grows x% pa from ~600 mln to 720 mln.

SE AsiaIndonesiaThailandMalaysiaFSB Energy - Shell WEM v2.4.17 - BBC12 - Version ReleaseVietnamPhilippines



World - GDP

SE Asia

SE Asian GDP/capita growths 2.9% pa from 5,500 to 11,000 (2011-2035)

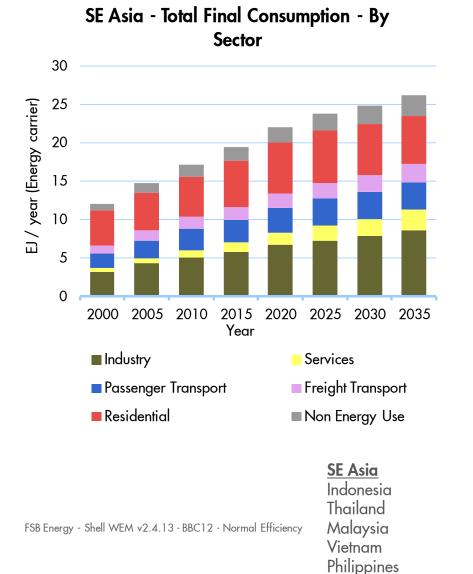
FSB Energy - Shell WEM v2.4.17 - BBC12 - Version Release

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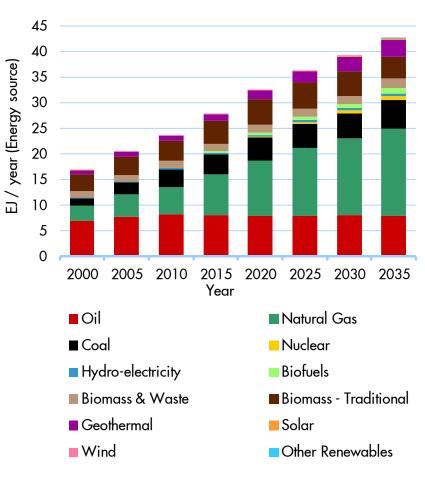
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SE ASIA TFC AND TPE



SE Asia - Total Primary Energy - By Source

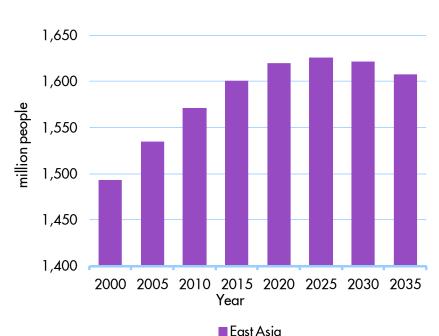


FSB Energy - Shell WEM v2.4.13 - BBC12 - Normal Efficiency

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Singapore

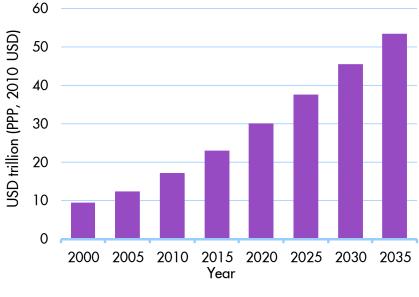
EAST ASIA POPULATION AND GDP



SE Asian population hardly grows and remains around

World - Population

World - GDP



East Asia

SE Asian GDP/capita growths 4.5% pa from \$11,500 to \$33,160 (2011-2035)

 FSB Energy - Shell WEM v2.4.17 - BBC12 - Version Release
 East Asia China Japan South Korea

 FSB Energy - Shell WEM v2.4.17 - BBC12 - Version Release

 North Korea

Taiwan

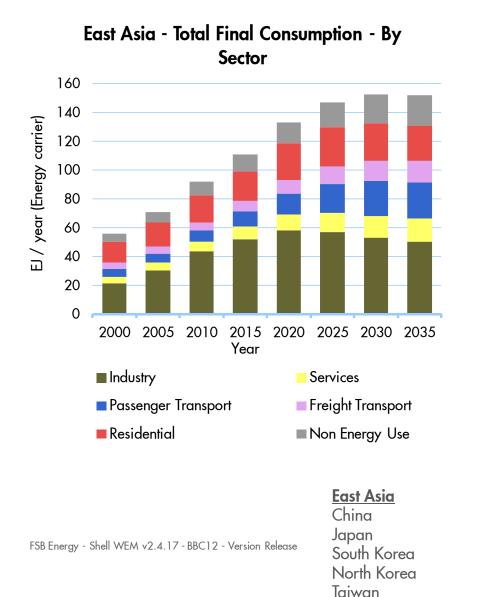
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1.6 bln people

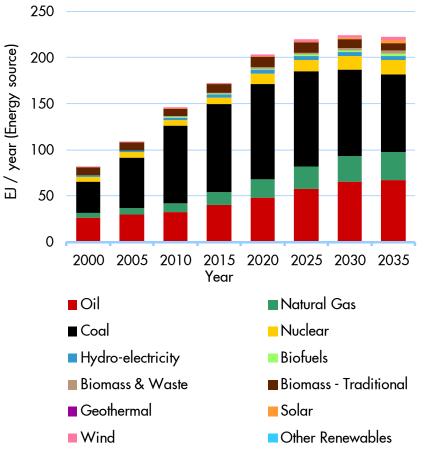
Note: This outlook is an example only as it is based on extrapolation of current trends and assumptions around possible future choices. Many uncertainties remain and many alternatives to this outlook are possible therefore.

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EAST ASIA TFC AND TPE







FSB Energy - Shell WEM v2.4.17 - BBC12 - Version Release

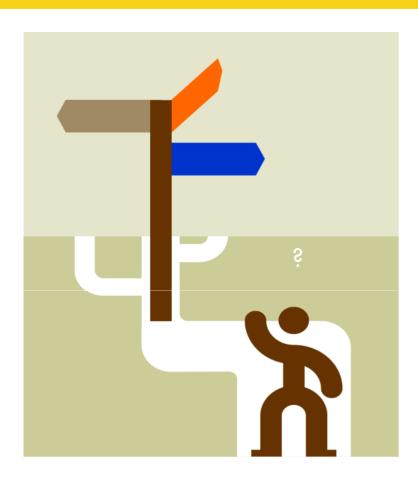
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PART 4

SHELL ENERGY SCENARIOS TO 2050 SIGNALS & SIGNPOSTS

WHY DO WE USE SCENARIOS?



- To ask "what if" questions, not necessarily give answers
- Not forecasts or predictions
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- Dealing with uncertainties greater, and time scales longer, than anyone can make predictions for
- Today's complexity requires a broad dialogue with diverse communities to arrive at sustainable solutions
- Broaden peoples' perspective
- Challenging assumptions and mental models
- Develop strategies and test plans
- Identifying risks and opportunities
- Relevant to business and policy decision makers

2008 ENERGY SCENARIOS TO 2050 National supply focus and reactive change Demography Demand Environment competition BLUEPRINTS SCRAMBLE ۲ (\mathcal{O}) Choices Resources Technology **Emerging coalitions** and accelerated change

GREENER THAN BLUEPRINTS...?

- Blueprints lower CO_{2e} than most scenario analyses but still
 650ppm by 2100*
- If 450ppm ≈2°C, Blueprints still isn't good enough
- Truly unprecedented pace of transformational investment would be required









Key insights from Shell's Energy Scenarios to 2050

- The three hard truths that must be tackled together
 - Accelerating demand from emerging economies
 - Supply struggling to keep pace
 - Climate change stresses rising



- Transformation in energy systems is inevitable
 - Profound impact on mobility, buildings and electricity generation
- Technology plays an important role, but cannot do it alone demand reduction and behaviour changes are also required
- Political and regulatory choices are pivotal short and long term measures are necessary
- Blueprints approach offers more chance of a sustainable future...but more needs to be done ... 2° target will not be met

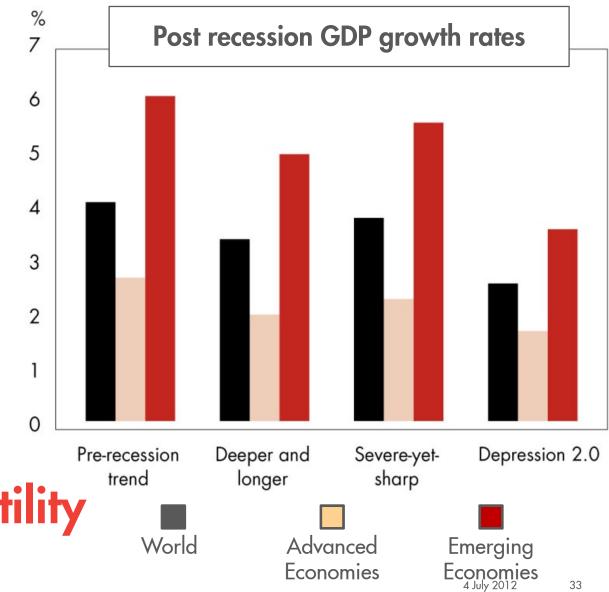
KEY DRIVERS IN GLOBAL POLITICS

- G20 vs G8 a global role for more nations?
 - China/US a crucial new relationship between the established and emerging world orders
- Policy paradigm reshaping the liberal capitalist model.
 Re-emergence of state intervention and industrial policy
- Burdens of adjustment choices on taxation, inflation targets, and public spending will impact who bears the costs
 - **Simmering discontent** unemployment, rising commodity prices

ECONOMIC SIGNALS

An end to the 'great moderation' Reduced trend growth?

Heightened ^o ^b economic volatility



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Changing demographics and economic landscape



Step change in energy use by global rise in population and prosperity

Supply from conventional energy resources outstripped leading to stresses

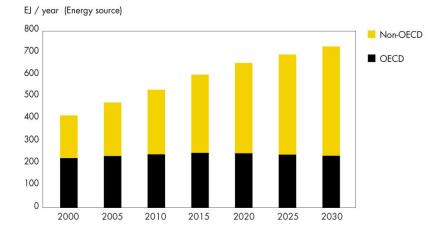
Environmental stresses – CO_2 and emerging tensions for water, food, land, etc

Energy drivers and the zone of uncertainty

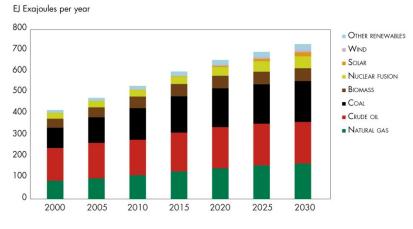


ENERGY GAMECHANGERS...?

World-Total Primary Energy Demand - By Region



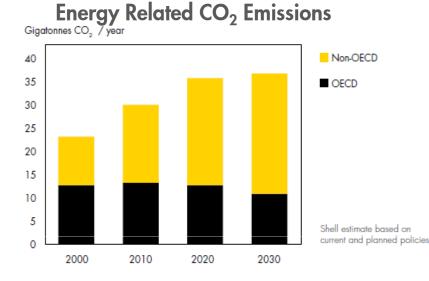
World-Total Primary Energy Supply



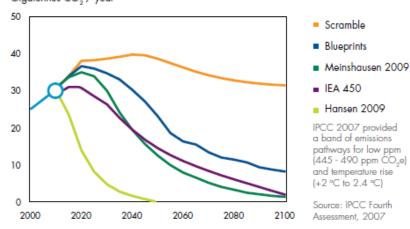
- Shift in consumption power from West to East
- Pressures on oil production
 - Supply power shifting to OPEC?
 - Iraq oil uptake & arrangements
 - Higher cost options
 - LTO uptake
- Natural gas, abundant and affordable
 - Unconventional gas in US (and elsewhere?)
- Shifting mix of primary energies
 - Efficiency affecting demand especially in Transport
 - Substitution in Transport and Electricity
 - Renewables
 - Nuclear post Japan?

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ENERGY RELATED CO₂ EMISSIONS



CO2 Pathways



Non-OECD has overtaken OECD

- Political process too slow
 - Transparent CO₂ price urgently needed
- Abundant natural gas
 - BLUEPRINTS: early CO₂ saving as a replacement fuel for coal in power generation
 - SCRAMBLE: Energy efficiency measures depressed
- Nuclear slowdown will bring coal back
 - Can renewables accelerate further?

ENVIRONMENTAL SCHISMS

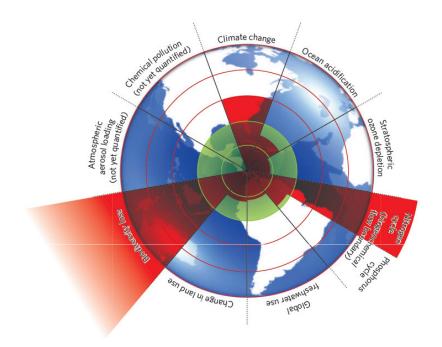


Table 1. Planetary Boundaries	Status
Climate Change (atmospheric CO_2 concentration and change in radiative forcing)	Boundary Exceeded
Rate of Biodiversity Loss	Boundary Exceeded
Nitrogen Cycle - part of a boundary with the Phosphorus Cycle	Boundary Exceeded
Phosphorus Cycle - part of a boundary with the Nitrogen Cycle	Approaching Limit
Ocean acidification	Approaching Limit
Global freshwater use	Approaching Limit
Change in land use	Approaching Limit
Stratospheric ozone depletion	Not exceeded
Atmospheric aerosol loading	Not yet quantified
Chemical pollution	Not yet quantified

- An uneven road from Kyoto to Durban
 - continued divergence on CO₂ policy is politically unsustainable
- Fallout from *Macondo* and *Fukushima*a higher public awareness of risk
- New planetary boundaries work points to imminent systemic ecosystem stress
 - Inks to Water, Food and Energy

Q& A

Views

Discussion



