Shell energy scenarios to 2050 An era of revolutionary change

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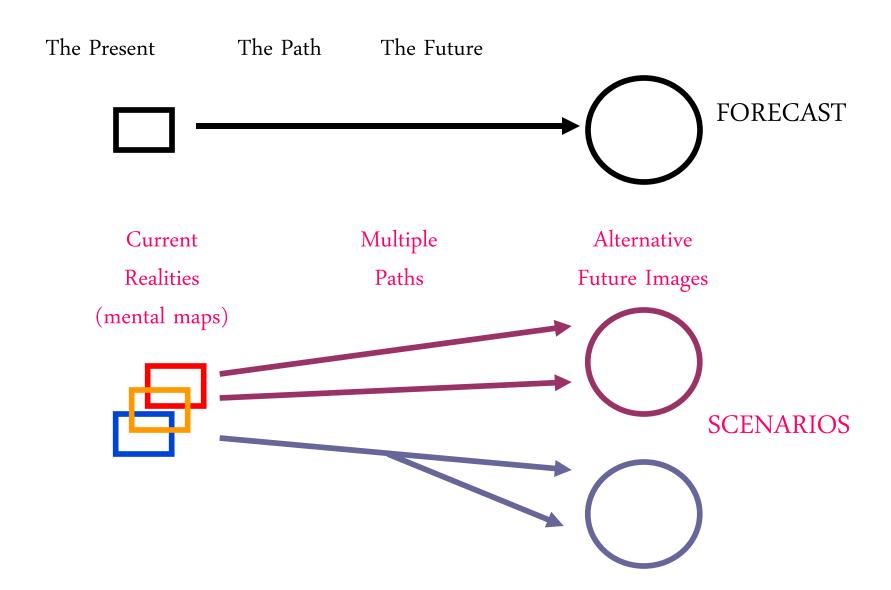


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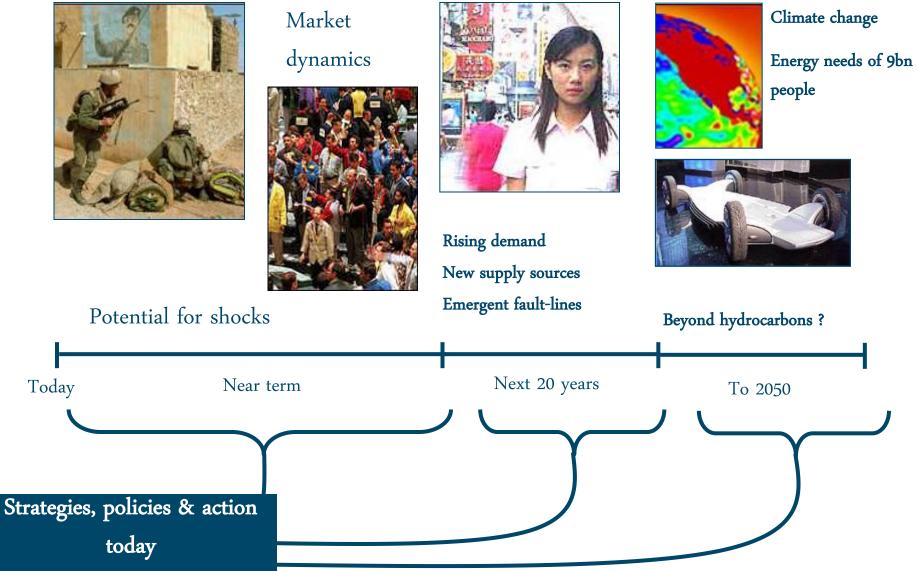
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Transitions are inevitable;

Scenarios help us wrestle with possible futures



Relevant time horizons



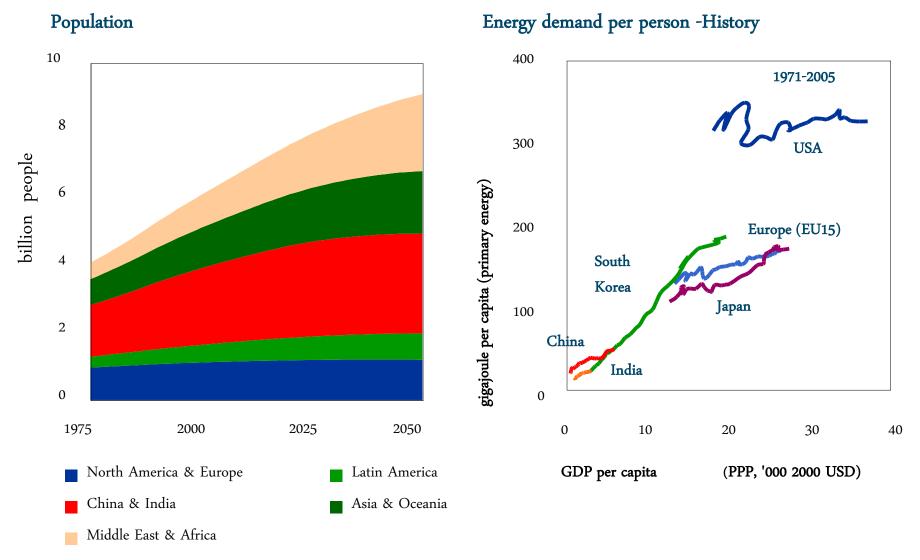


A People-Centred Map of the World



Year 2000; Source Mark Newman, University of Michigan

All energy outlooks driven by the population & prosperity of rapidly growing economies



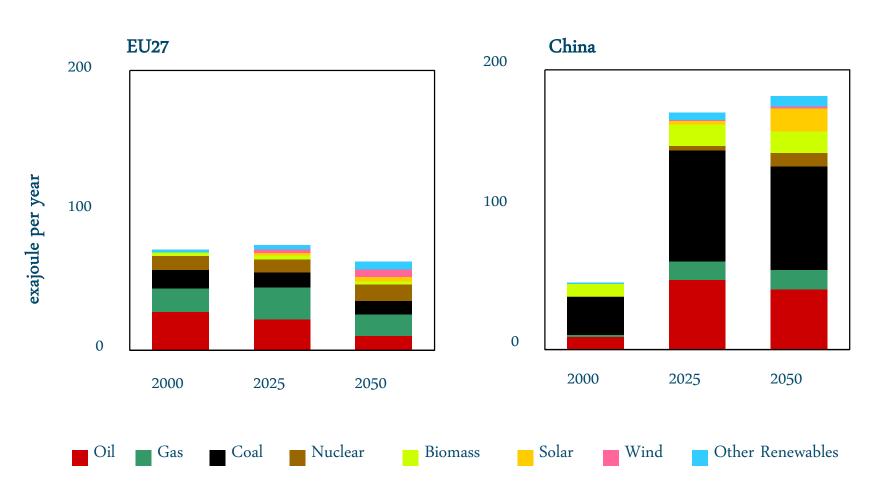
Three Hard Truths

- Surging energy demand
- "Easy" supply will struggle to keep pace
- Environmental stresses are increasing

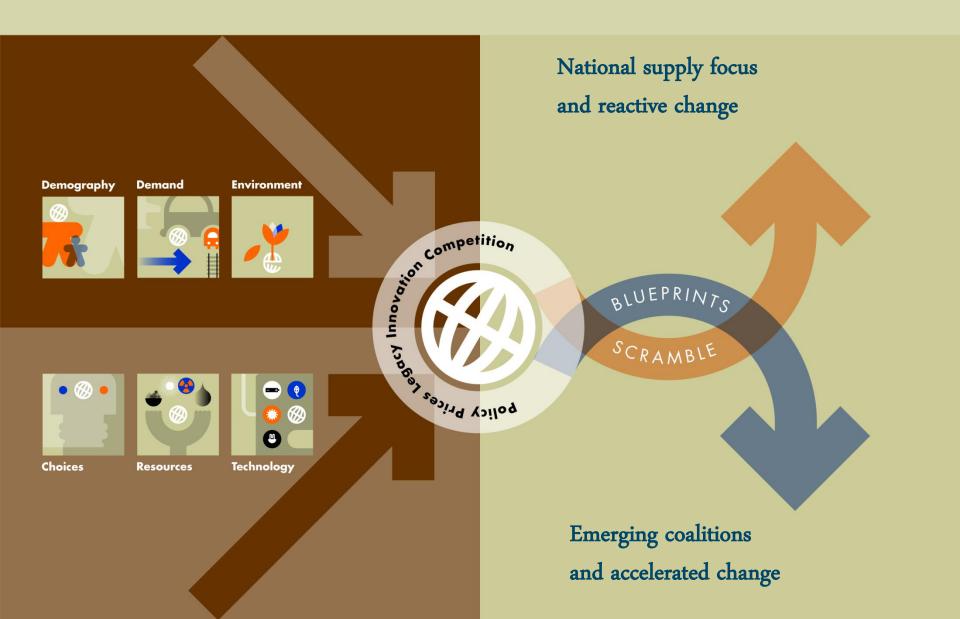


Energy transitions are inevitable ...

Total primary energy demand



Shell energy scenarios





SCRAMBLE

Scramble - Security of supply and fear of losing economic growth





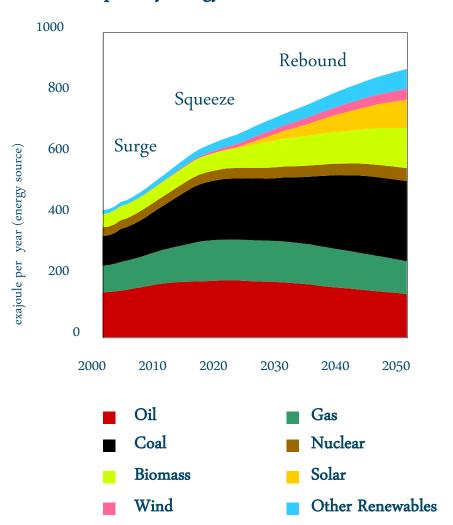




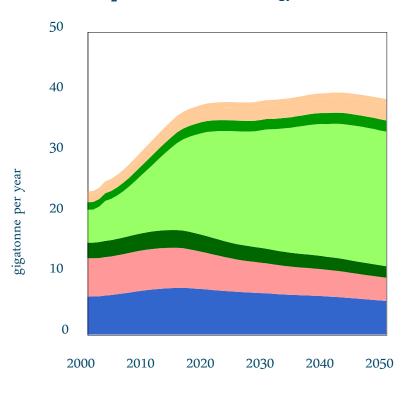


Scramble – supply focus and late responses

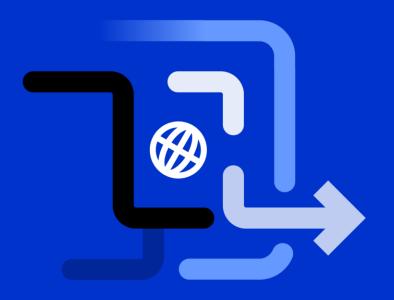
Total primary energy demand



Direct CO₂ emissions from energy



- Middle East & Africa
- Latin America
- Asia & Oceania Developing
- Asia & Oceania Developed
- North America
- Europe



BLUEPRINTS

Blueprints – Energy security and sustainability



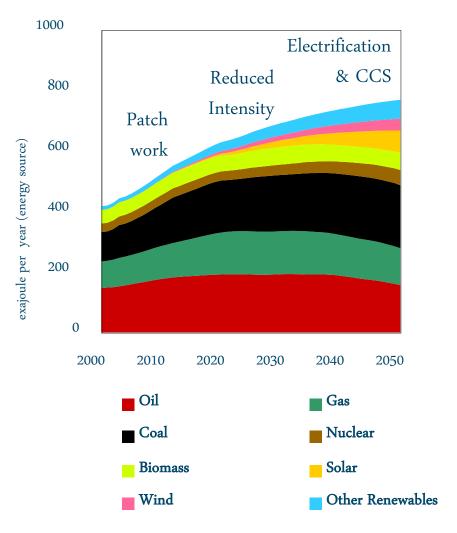




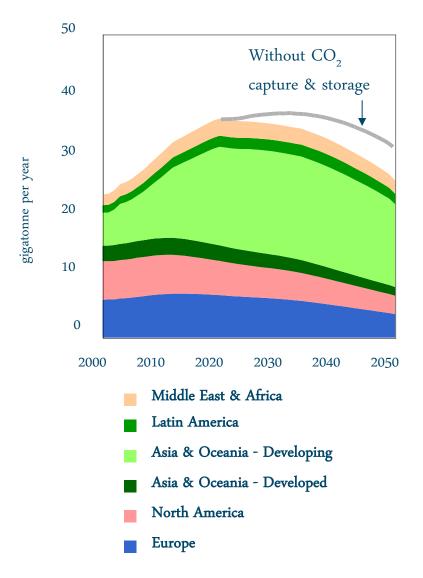


Blueprints – multi-focus and early actions

Total primary energy demand

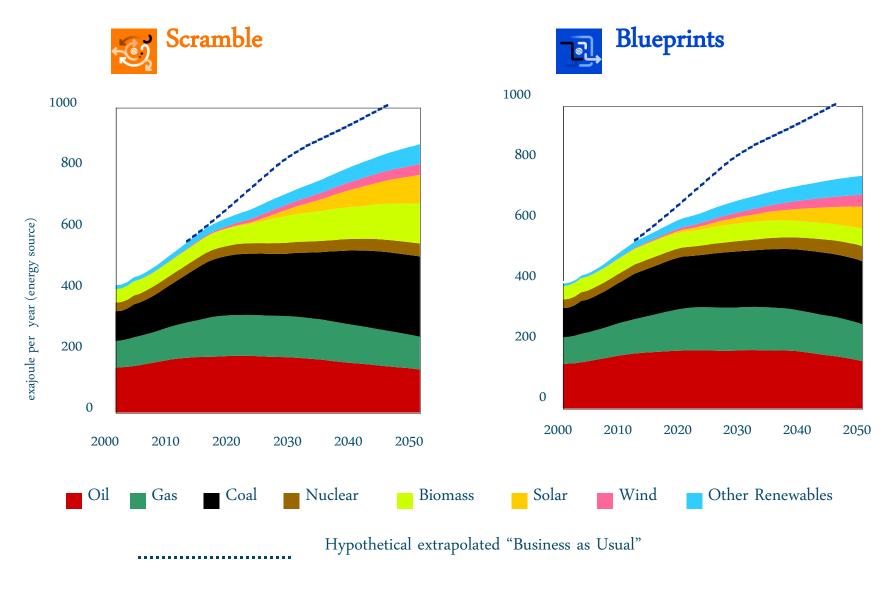


Direct CO₂ emissions from energy

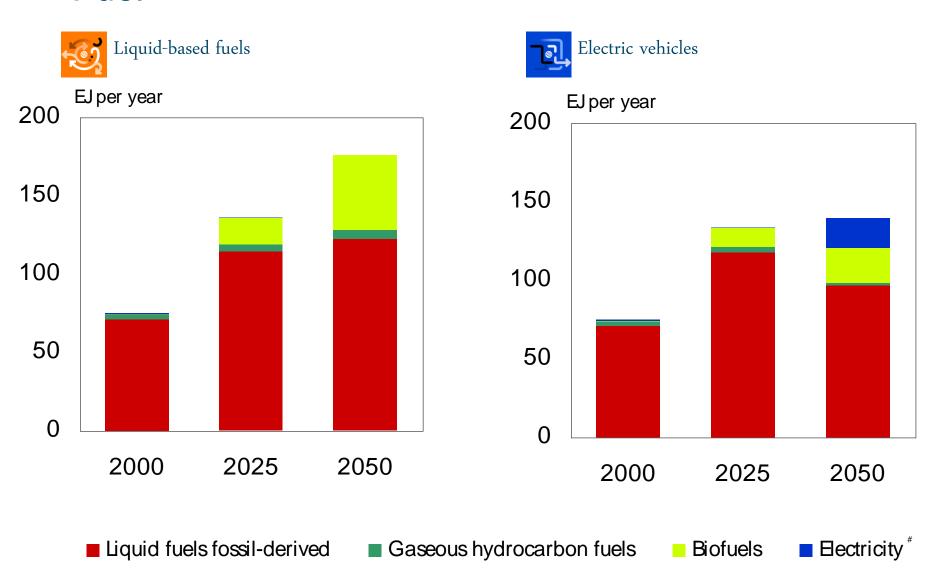


Sources: Shell International BV and

Comparing the scenarios: global energy mix

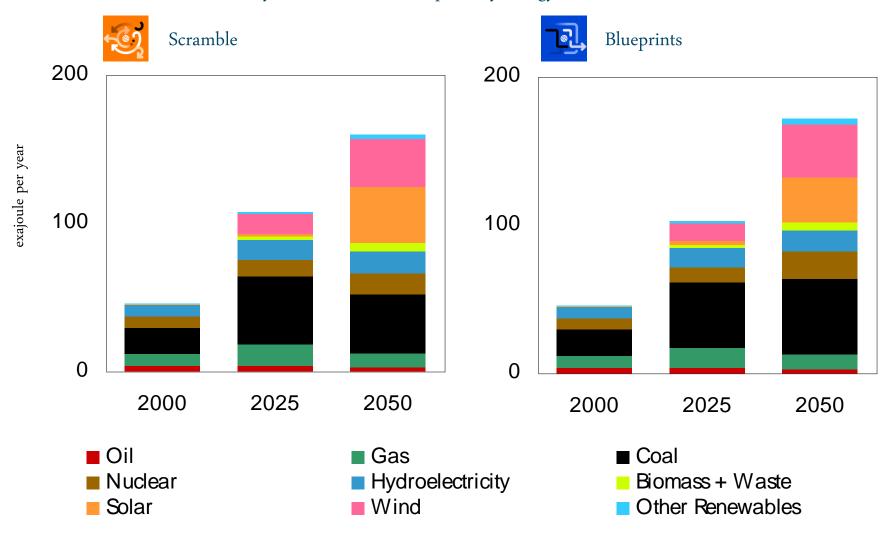


At sector level - what this means for Transport Fuel

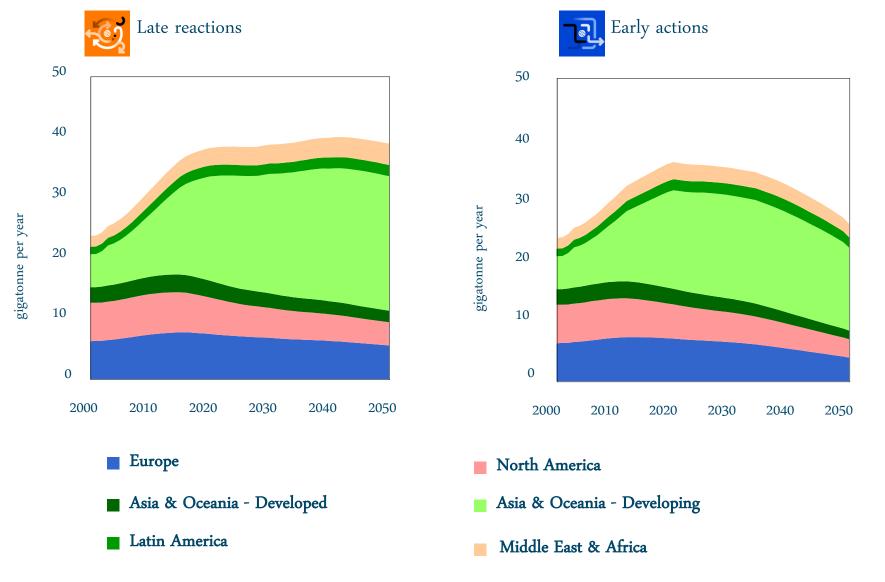


At a sector level - what this means for Electricity (power generation)

Electricity - Total final consumption by energy source



Implications for direct CO₂ emissions from energy



In summary – what we have learned



- The three hard truths are *very* hard
 - The nature of economic recovery will determine how quickly the pressures become obvious again
- Global transition is both inevitable and necessary
- Technology plays a major role, but no silver bullets
- Political and regulatory choices are pivotal
- The next 5 years are critical

Tackling all three hard truths TOGETHER is essential for a sustainable future

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