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# Insights on Energy Outlook: Disruptive Forces and Emerging Trends

**Eighth IEA-IEF-OPEC Symposium on Energy Outlooks,  
Riyadh, Saudi Arabia**

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February 14, 2018

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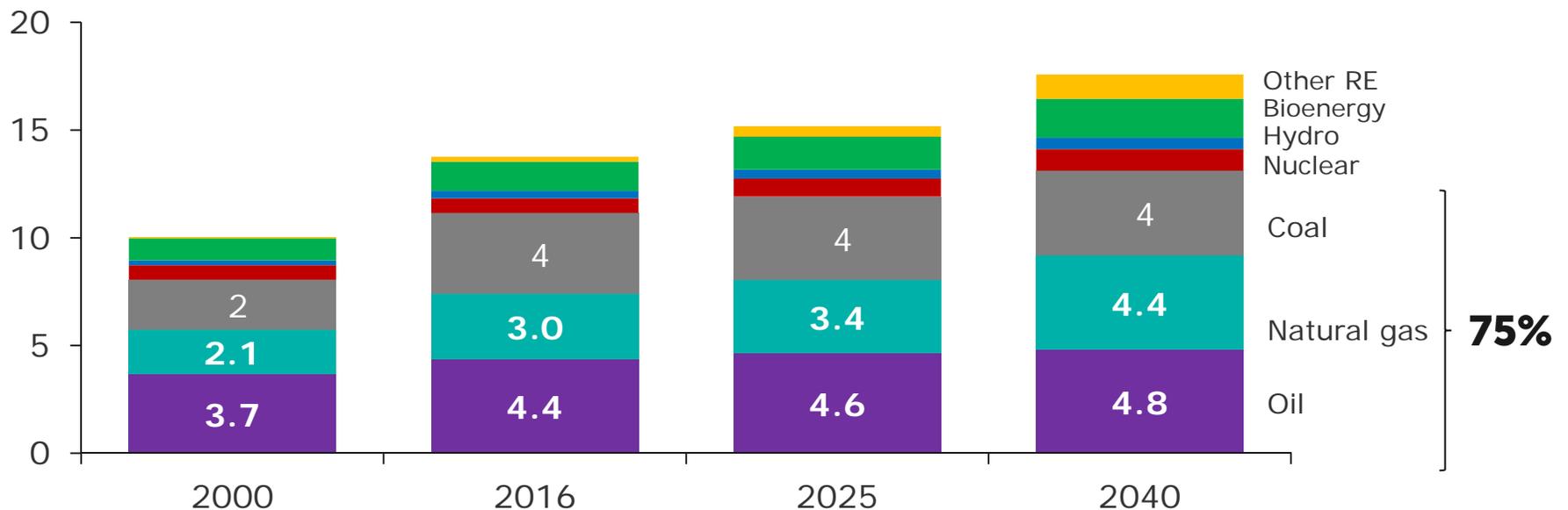
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# Oil & gas continue to feature prominently in energy mix, however, alternative energy is expected to gain traction ...

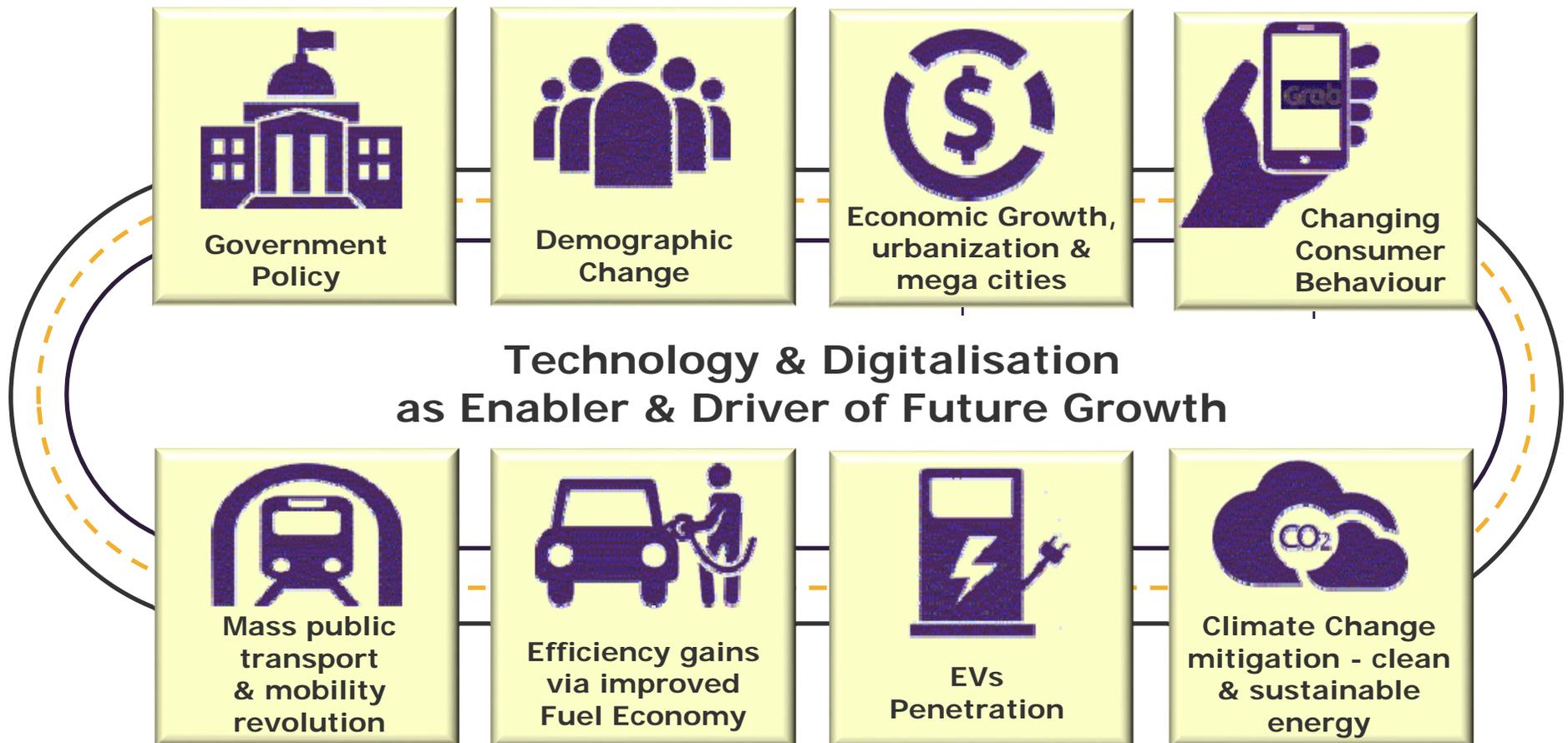
By 2040, fossil fuels are expected to account for more than two-thirds of global energy demand

## World primary energy demand by fuel

Unit: Billion toe



... driven by structural changes in the energy landscape brought about by disruptive forces and megatrends. Thus, forecasting future energy demand will be even more challenging ...



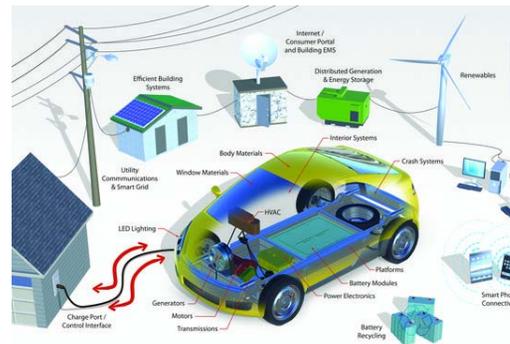
... while the impact of policy and regulatory changes, and technology breakthroughs are equally arduous to predict ...

**Bloomberg Pursuits** Markets Tech Pursuits Politics Opinion Businessweek

## Mercedes Is About to Unveil an Entire Fleet of Electric Vehicles

By **Elisabeth Behrmann** and **Christoph Rauwald**  
August 05, 2016 12:00 PM

Mercedes will add two electric sport utility vehicles and two sedans, according to two people familiar with the plan, who asked not to be named because the details haven't been disclosed. Mercedes will create a new sub-brand for the cars, though a name hasn't been disclosed. Mercedes CEO Dieter Zetsche said in a statement that the company will unveil an electric car at the Paris motor show in November.



**FINANCIAL TIMES**

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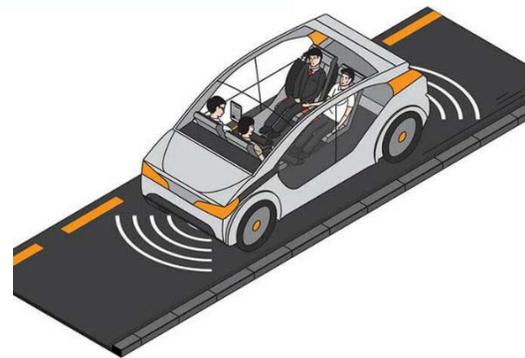
Electric Vehicles [+ Add to myFT](#)

## Subsidies help China sell the most electric cars

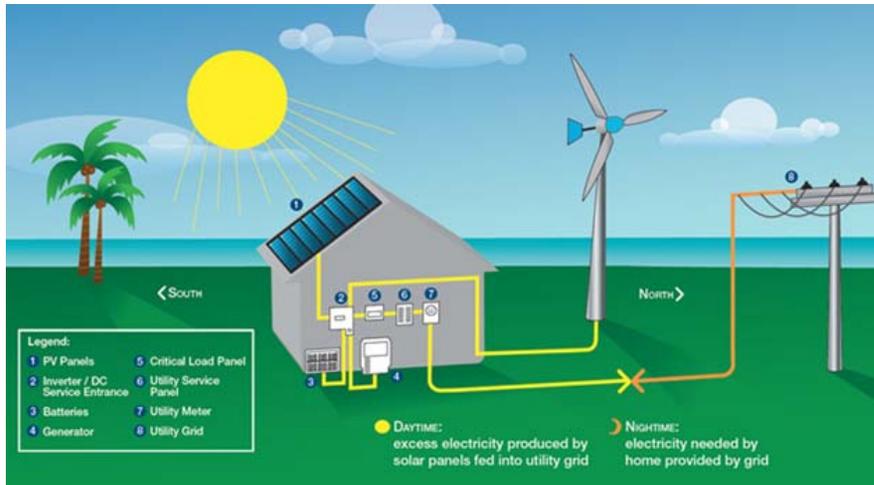
Government incentives last year were worth up to \$15,000 per vehicle

Inside BYD: the Chinese carmaker sells more electric vehicles than any other brand in the world © Bloomberg

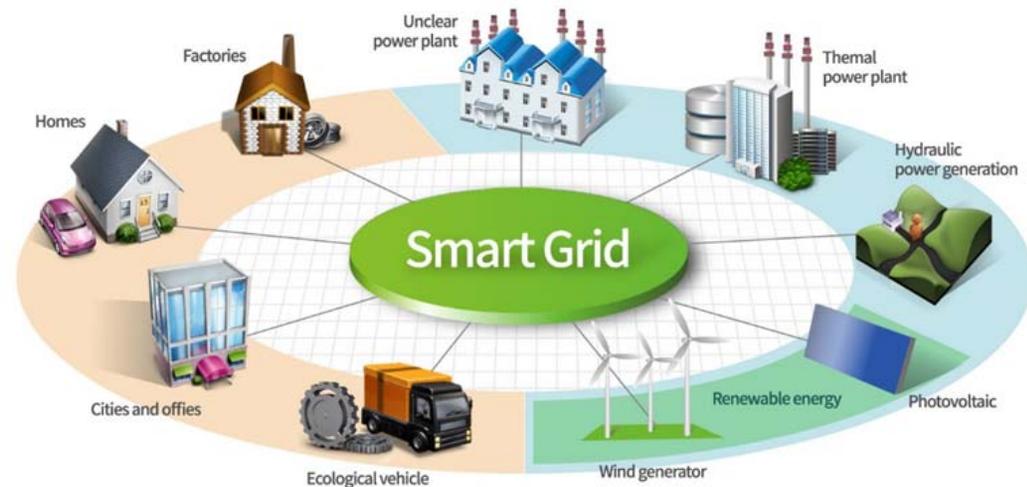
OCTOBER 24, 2017 **Charles Clover** [7 comments](#)



... at the same time, in fast changing and tech-driven energy landscape, different business models are required if existing players are to remain in the business ...



- Blurring lines between tech start ups and energy companies
- Buying and selling of energy by individuals (energy storage, power grid)
- Growing significance of new energy sources



... today, O&G companies are no longer on the Top 5 list where top companies are technology-based and asset-light

Top 5 publicly traded companies by market capitalisation

Tech
  Others

2006

1	Exxon	US\$446bn
2		US\$383bn
3		US\$372bn
4	 Microsoft	US\$293bn
5		US\$273bn

November 2017

1		US\$893bn
2		US\$717bn
3	 Microsoft	US\$647bn
4		US\$544bn
5		US\$519bn



## Key takeaway

- While oil and gas will continue to feature prominently in the global energy mix, new and alternative energy will gain traction
- Forecasting energy demand is getting more challenging, arduous and unpredictable as disruptive forces and mega trends continue to shape the future energy landscape
- Players need different business models to compete and create a niche in the new energy landscape that is premised on technology and innovation
- The Future is Here as tech start ups and technology-based companies continue to drive innovations and breakthroughs that may alter our conventional view of the energy industry



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**Thank you**

