



Energy Perspectives 2017 Long-term macro and market outlook USA, June 2017 Eirik Wærness, Senior vice president and Chief economist

Three different tales of the future towards 2050

None are BAU – Renewal a tremendous challenge, Rivalry unpleasant





Key #1: Energy efficiency improvement

Global GDP 2-2.6 times higher in 2050, Energy demand -5% - + 30%





Key #2: Speeding up the change in global energy mix

... with Renewal displaying a paradigm shift





Technology shift for light duty vehicles

... in all scenarios, and a revolution in Renewal







Decarbonise electricity, and go electric

13-doubling of wind, 39-doubling of solar generation in Renewal





Oil and gas dominate in other sectors

... contributing to maintaining demand for fossil fuels



Source: IEA (history), Statoil (projections)



Huge investments needed in oil in all scenarios

...to replace production and satisfy demand



Source: Statoil (projections), BP statistical review of world energy (history)



Source: Statoil

...and the same is the case for gas

...to replace production and satisfy demand



Source: Statoil (projections), BP statistical review of world energy (history)



Source: Statoil

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CO₂ emissions determined by demand and mix

Policies, markets, and technology having varying impact





OECD Americas energy mix

... with Renewal displaying a paradigm shift – eliminating coal





OECD Americas: Technology shift for light duty vehicles

... in all scenarios, and a revolution in Renewal



Source: IEA (history), Statoil (projections)



OECD Americas: Decarbonisation of electricity

Large investments in new renewables required, especially in Renewal



Source: IEA (history), Statoil (projections)

