

Meet Alaska 2018

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Energy Enables Human Development



Source: United Nations, ExxonMobil estimates

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Global Trends



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Growing Middle Class Drives Demand Growth



Global Middle Class

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ExxonMobil Annual Outlook for Energy





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Energy-related CO₂ Emissions Peak in 2030s



Sources: ExxonMobil 2017 Outlook for Energy; UNFCCC COP21 Synthesis Report 2015

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All Scenarios Require Reinvestment



2015

ExonMobil Source: Based on IEA sources, excludes biofuels

Technology Helps Us Do More With Less



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Technology Expands Recoverable Reserves



Crude & Condensate Resource Estimates



World Supply by Type MBDOE

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Technology Enabled Production Growth

Permian Basin Drilling & Completion Costs \$/OEB¹



1 Drilling & Completion cost only; EM operated Midland basin horizontal wells

Crude and Condensate Production MBDOE



Source: EIA, hatched bars are projections

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Liquids Trade Balance by Region



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Gas Trade Balance by Region



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Gas Supply



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Energy Mix Evolves Slowly Due to Complexity and Scale



Source: Smil, Energy Transitions (1800-1960)

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Key Messages

- Energy fuels human development
- Growing non-OECD middle class drives energy demand
- CO2 emissions peak ~2030
- All scenarios require trillions of dollars of oil & gas reinvestment
- Technology provides solutions
- US transitions to net exporter of oil and gas
- Energy system rate of change limited by complexity and scale

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