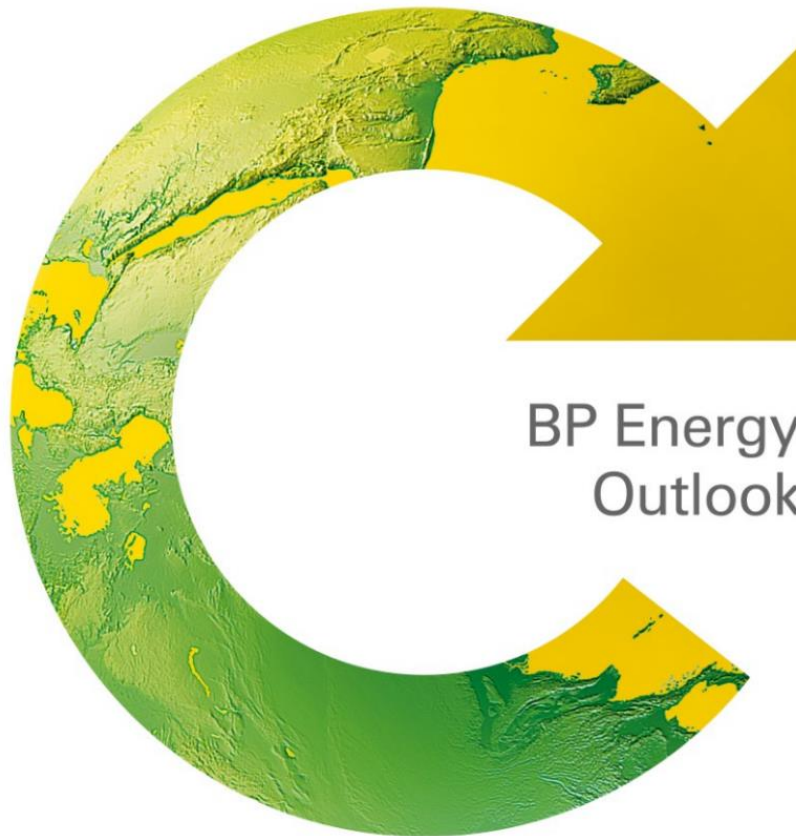




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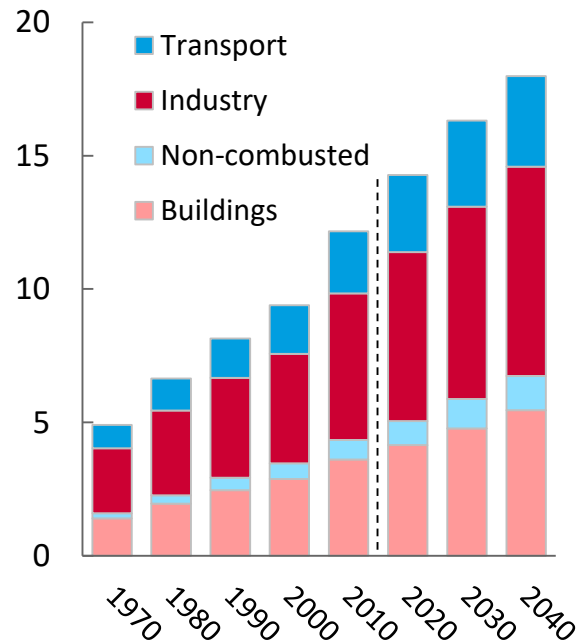
Spencer Dale
Group chief economist

Three windows on the energy transition

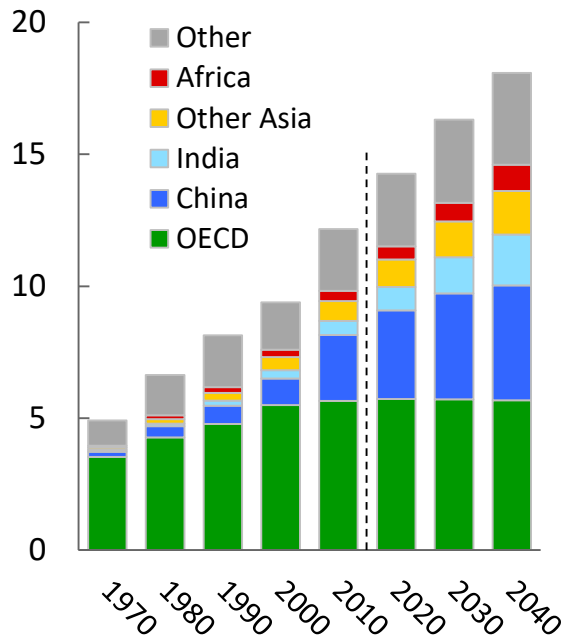
Primary energy demand

End-use sector

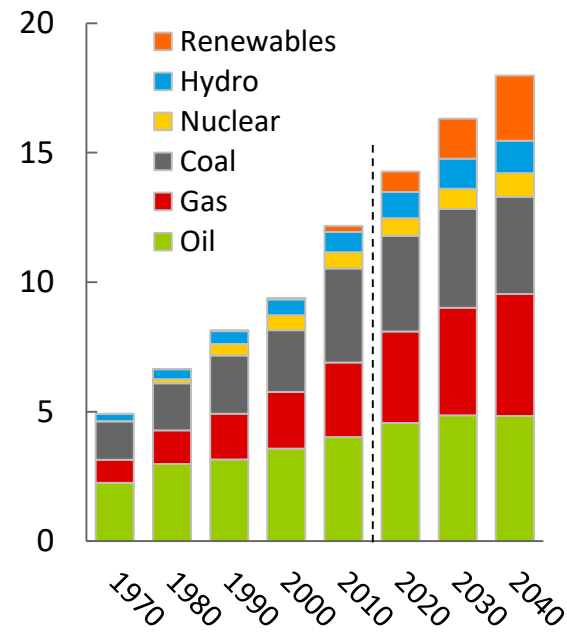
Billion toe



Region

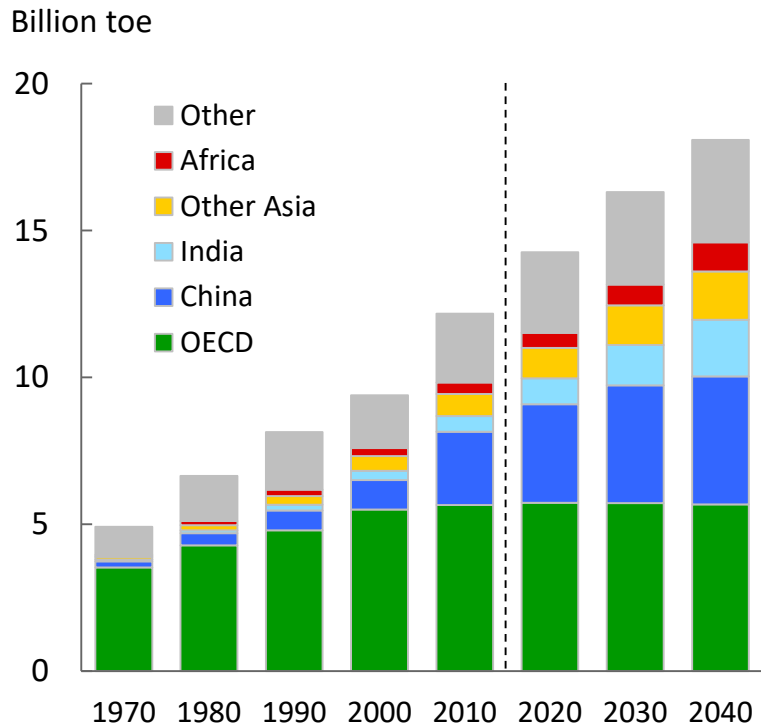


Fuel

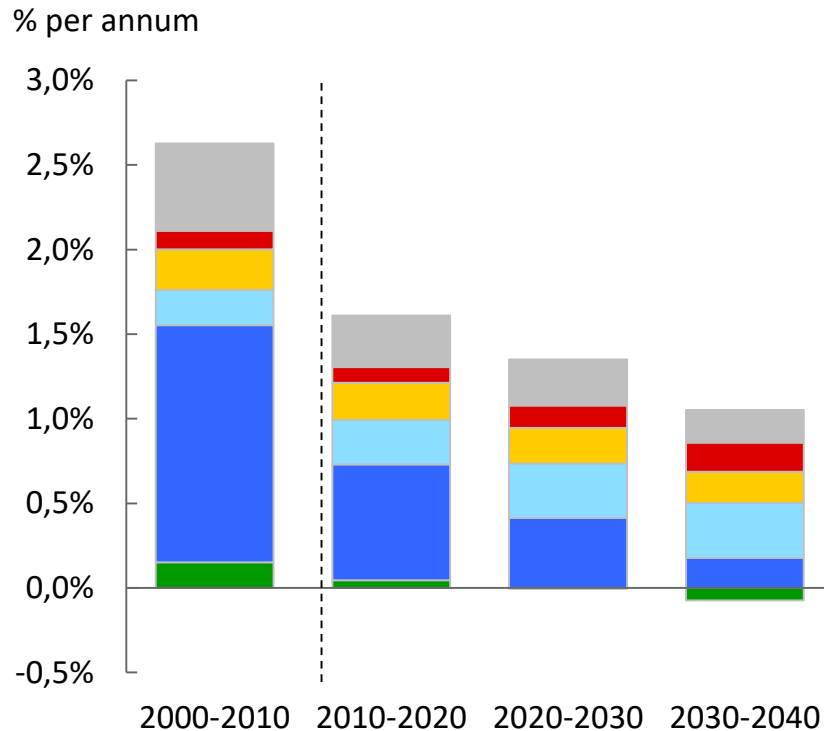


Regional energy demand

Primary energy consumption by region



Primary energy growth and regional contributions

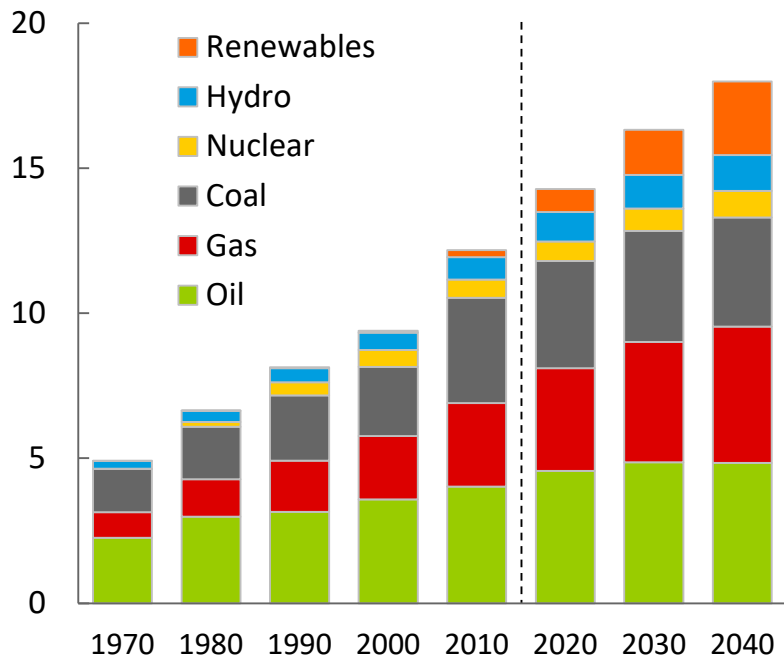


Global energy by fuel

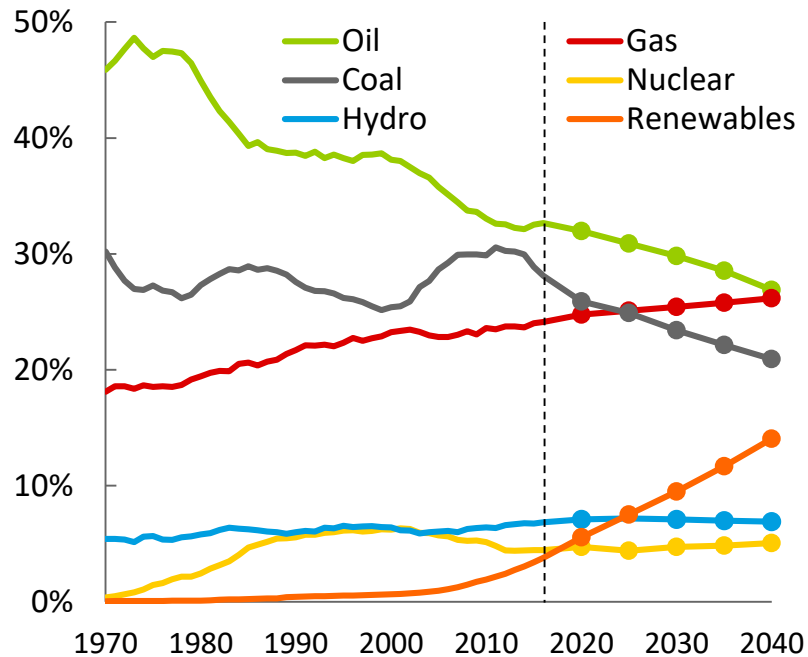


Primary energy consumption by fuel

Billion toe



Shares of primary energy



Three features of Energy Outlook

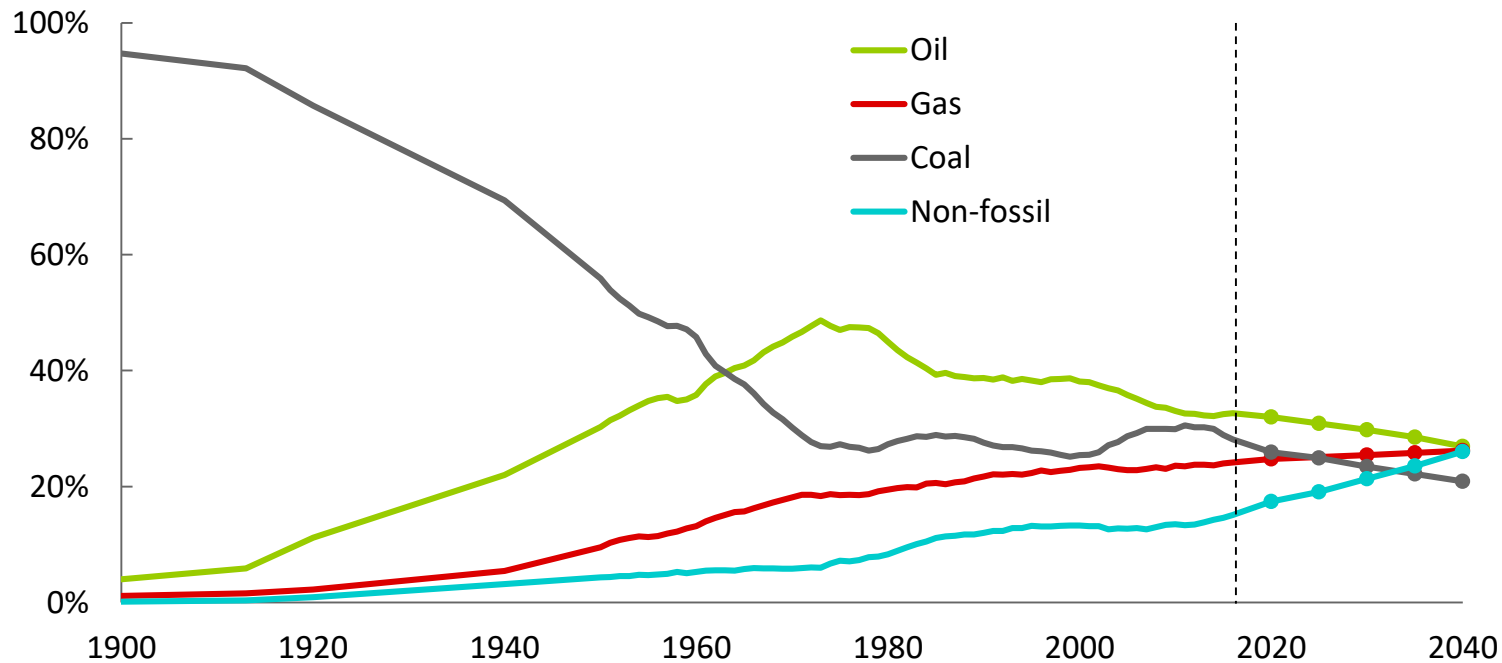
- **Energy markets are becoming more competitive**
- **Oil demand: plateau not peak**
- **Transition to a lower carbon energy system is not happening fast enough**

Three features of Energy Outlook

- **Energy markets are becoming more competitive**
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Diversified fuel mix

Shares of primary energy

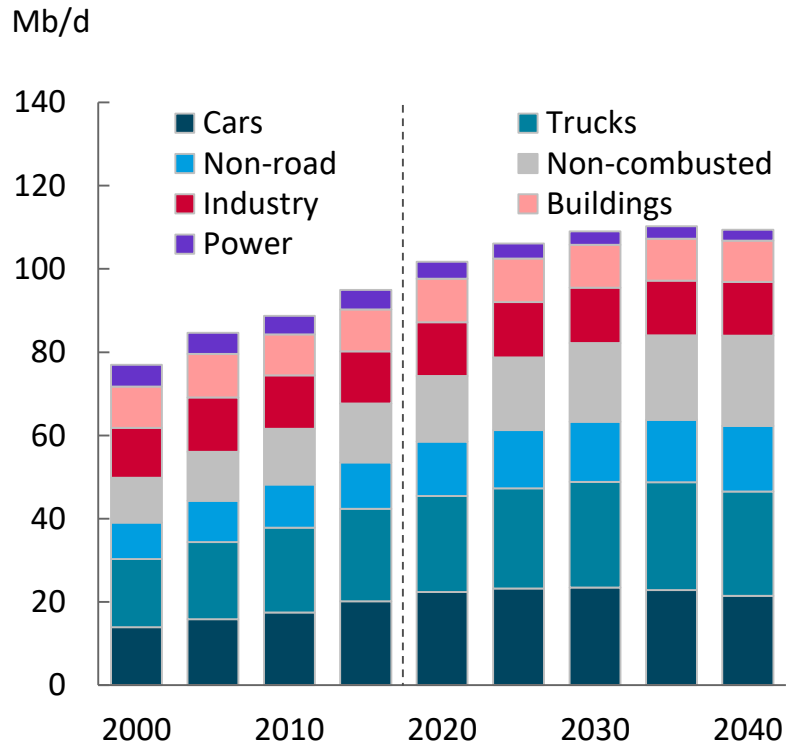


Three features of Energy Outlook

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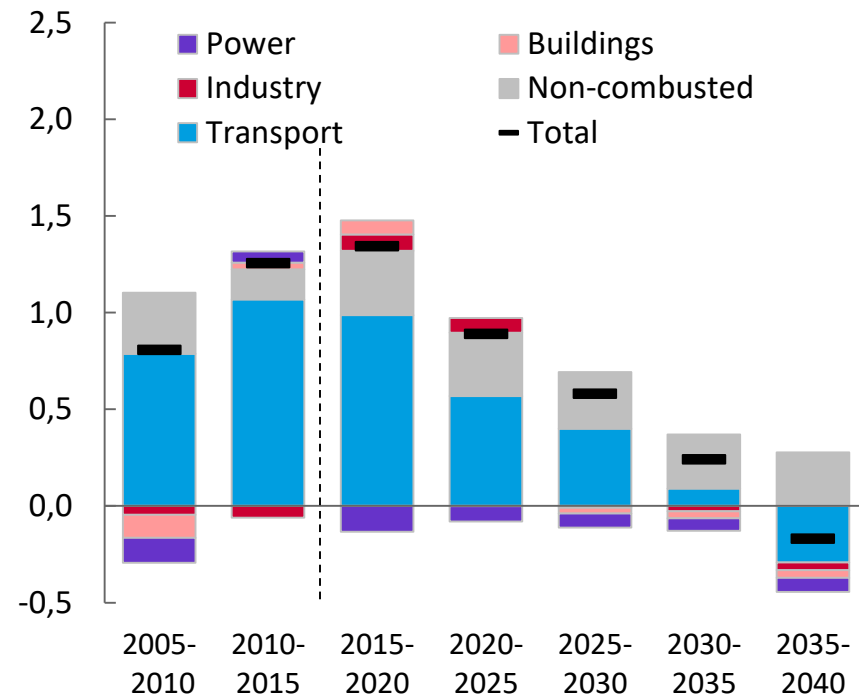
Demand for oil and other liquid fuels

Liquids demand



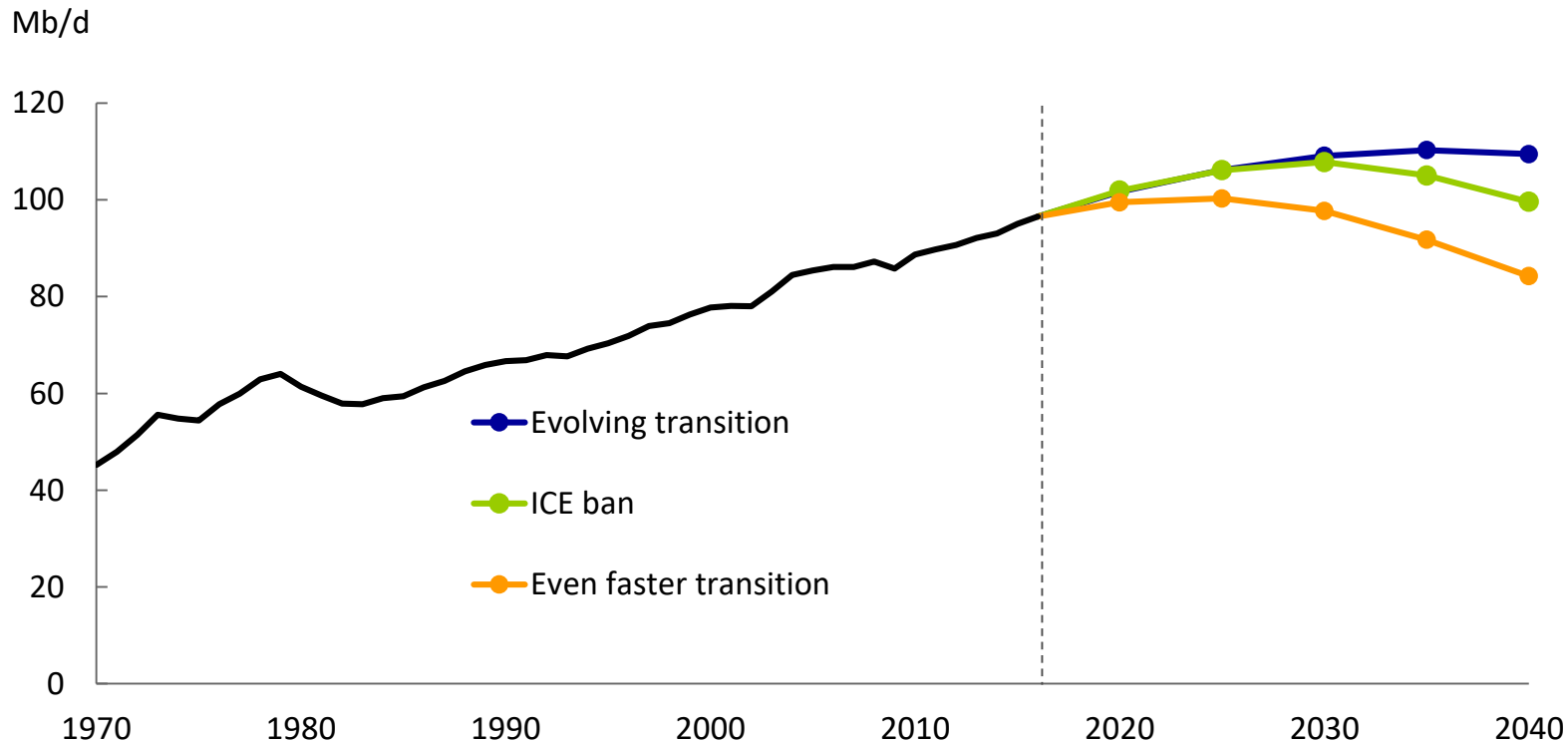
Liquids demand growth

Mb/d, average annual growth



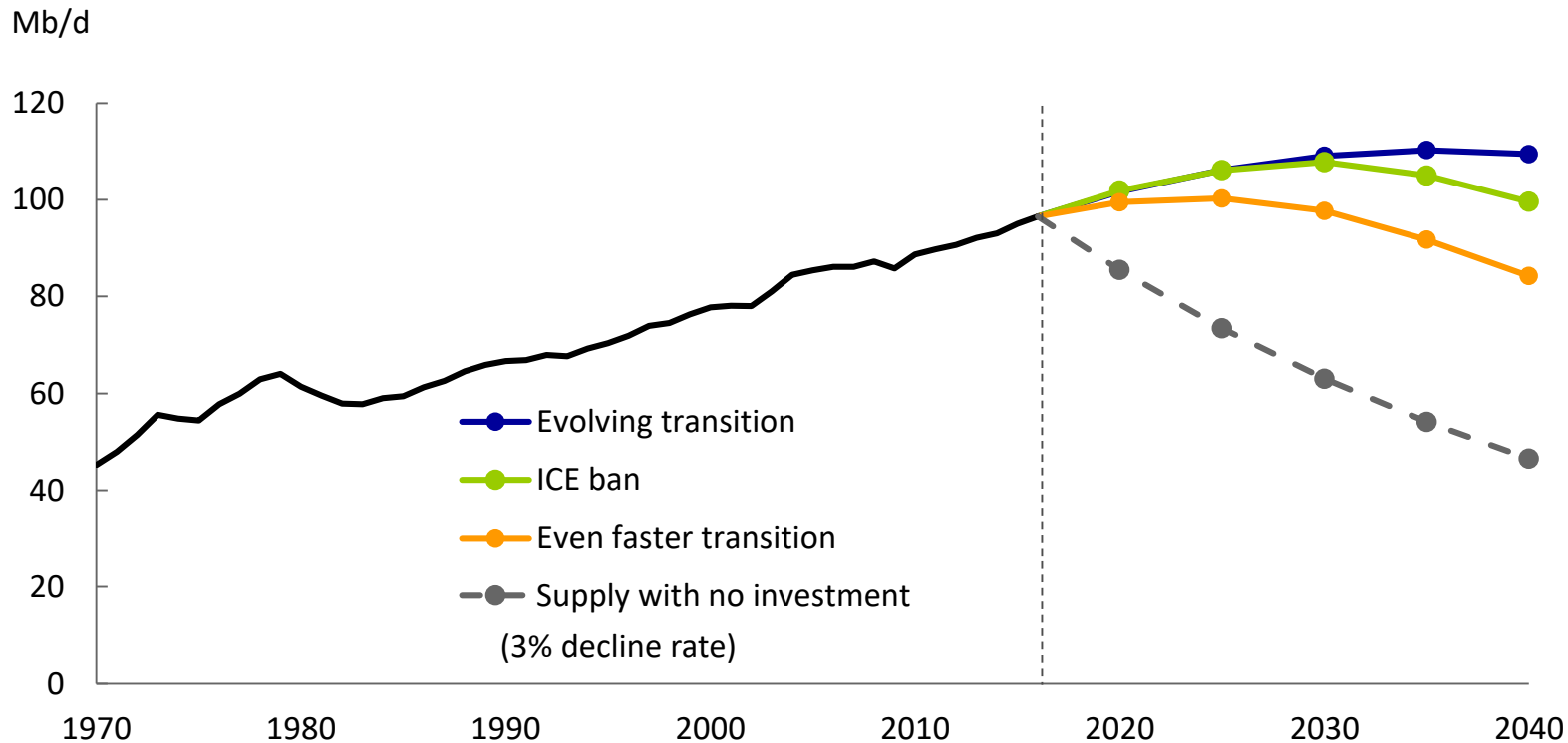
Demand for oil and other liquid fuels

Liquids demand



Demand for oil and other liquid fuels

Liquids demand

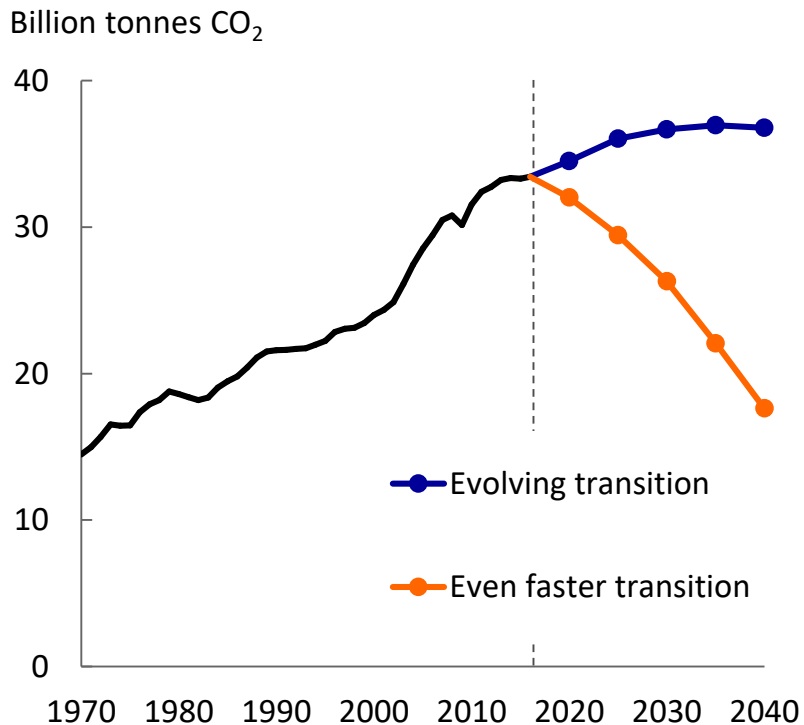


Three features of Energy Outlook

- **Energy markets are becoming more competitive**
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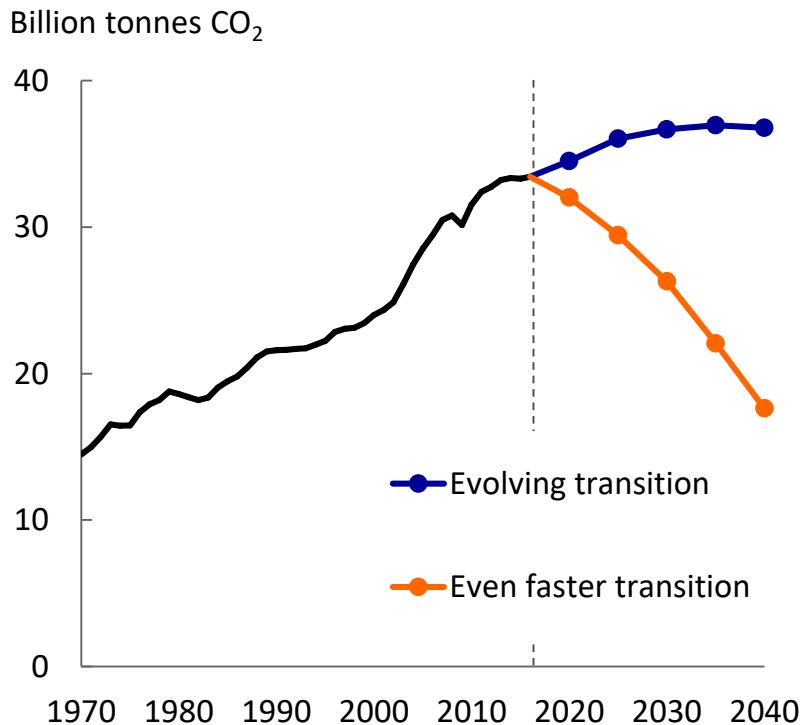
Carbon emissions continue to rise in the ET scenario

Carbon emissions

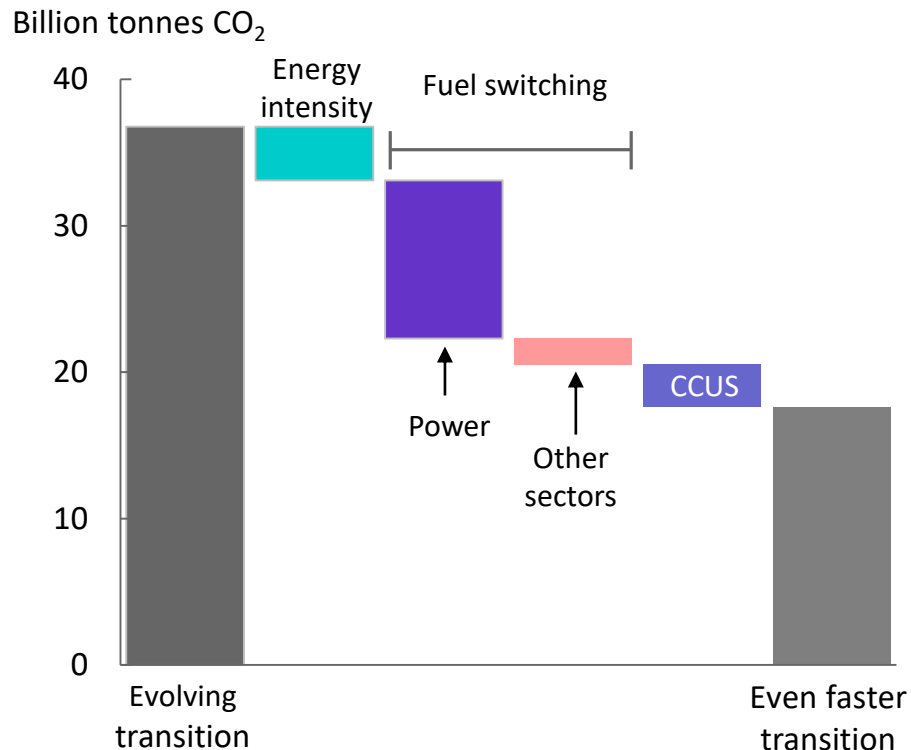


Carbon emissions continue to rise in the ET scenario

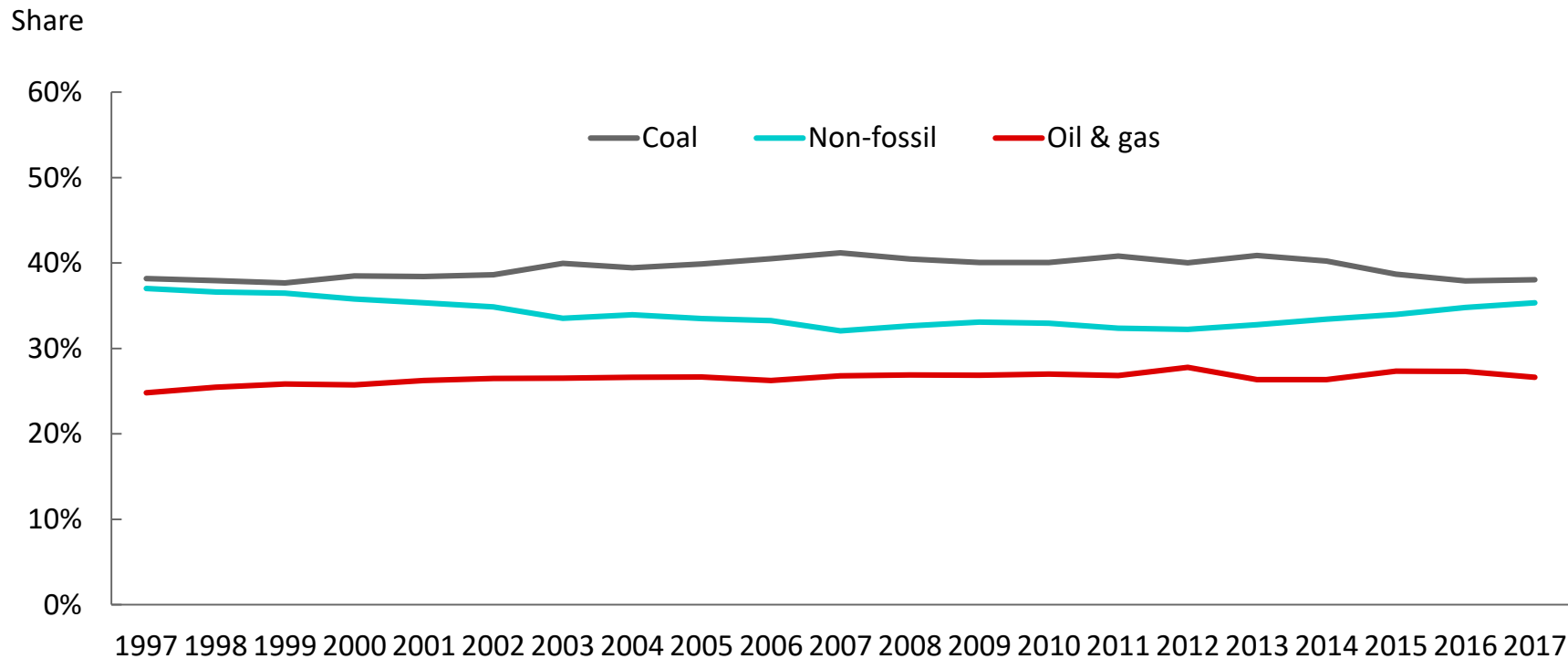
Carbon emissions



Carbon emissions in 2040:
EFT versus ET scenario

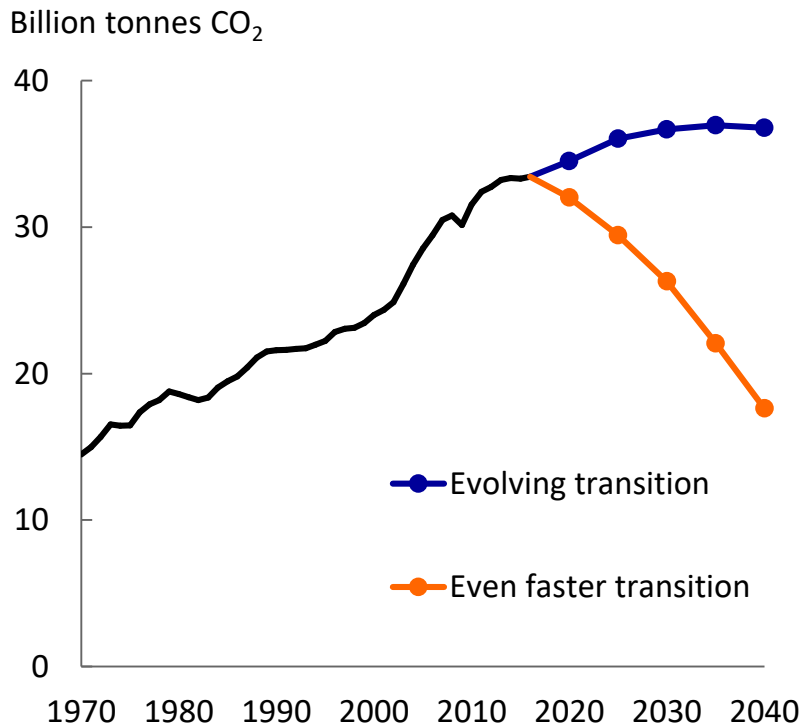


Fuel shares in global power generation

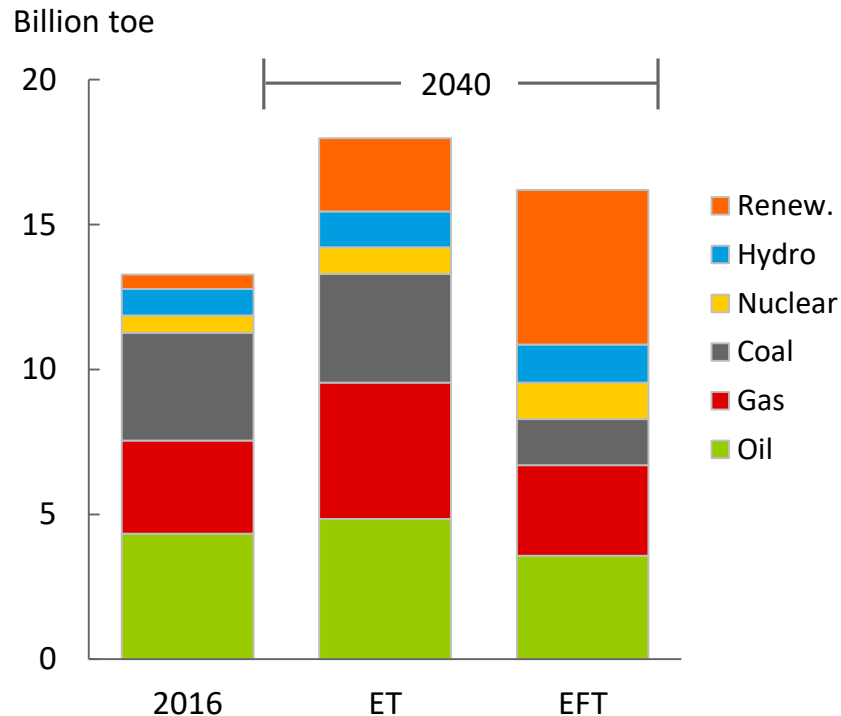


Impact of faster transition on global energy system

Carbon emissions



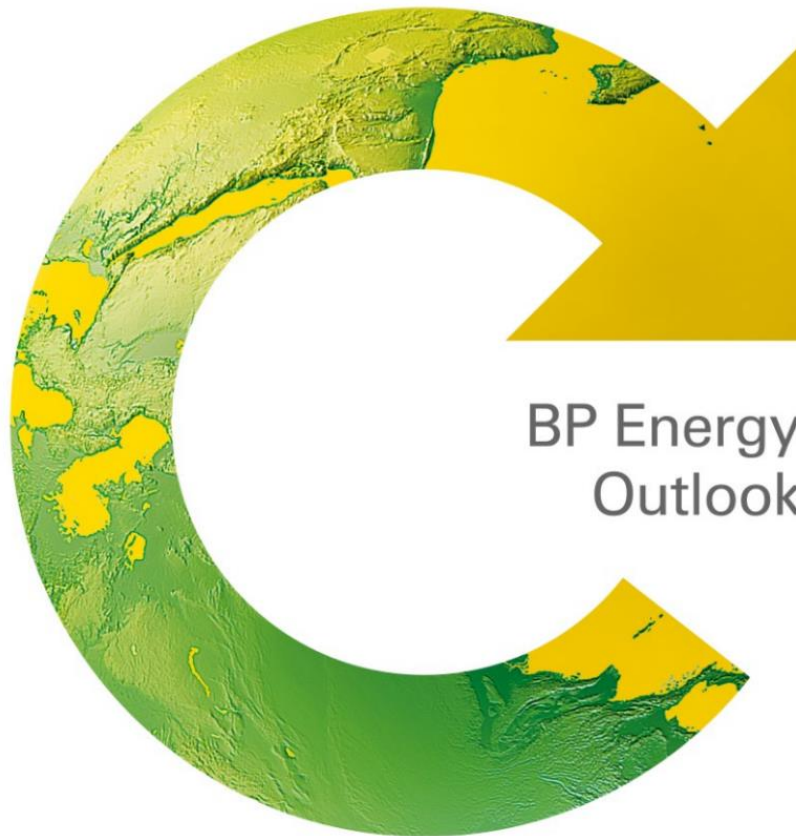
Primary energy consumption under different scenarios





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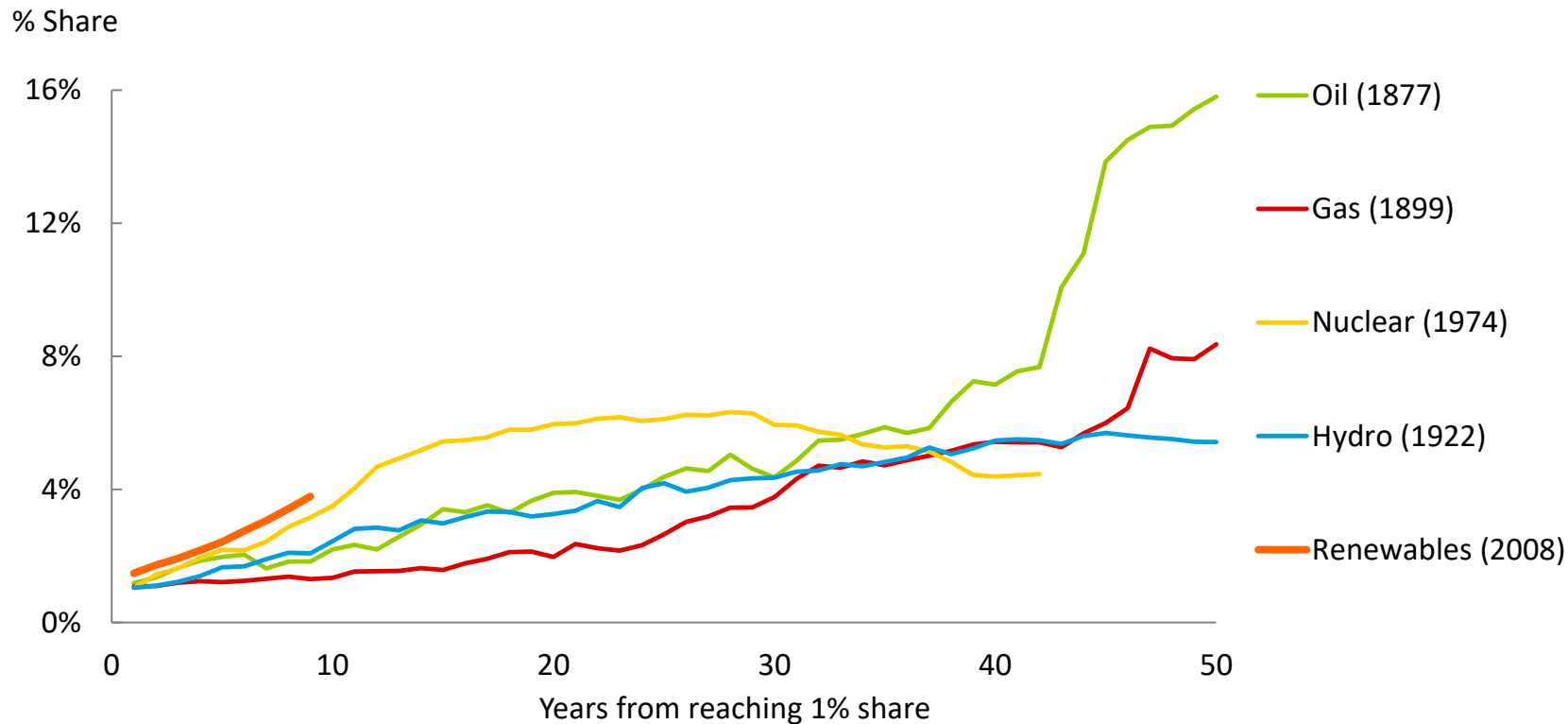


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Spencer Dale
Group chief economist

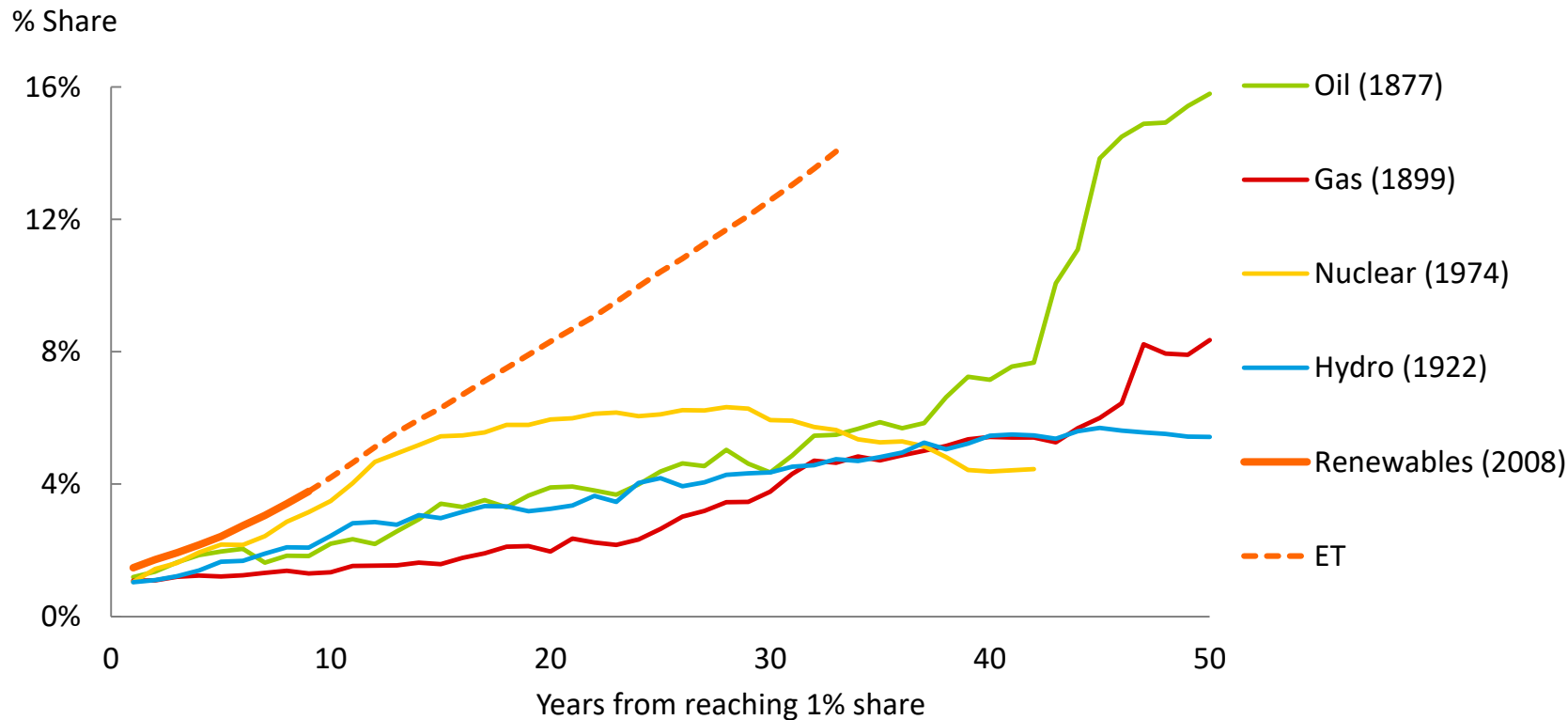
Energy transitions are measured in decades

Shares of global primary energy



Energy transitions are measured in decades

Shares of global primary energy

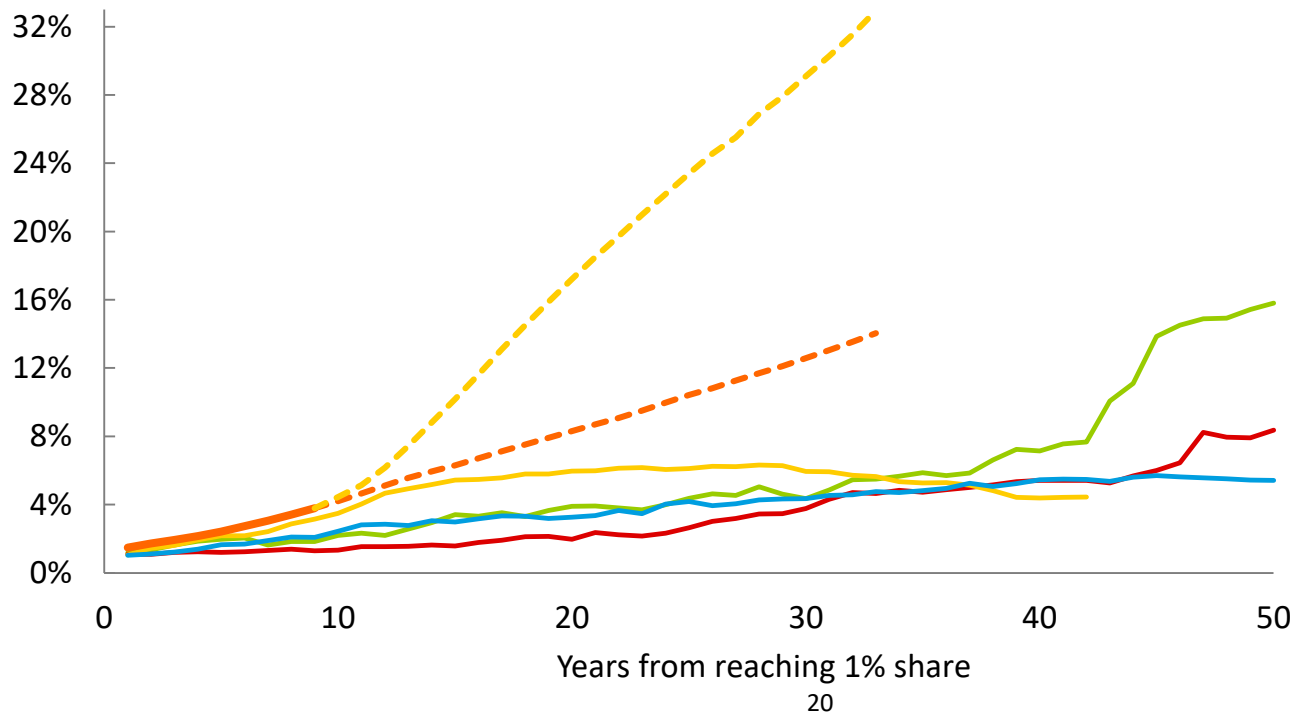




Energy transitions are measured in decades

Shares of global primary energy

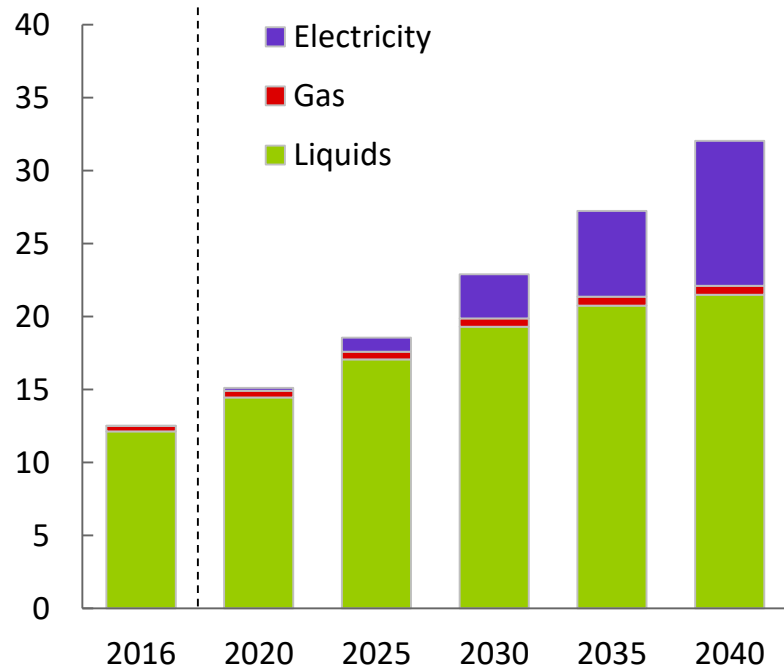
% Share



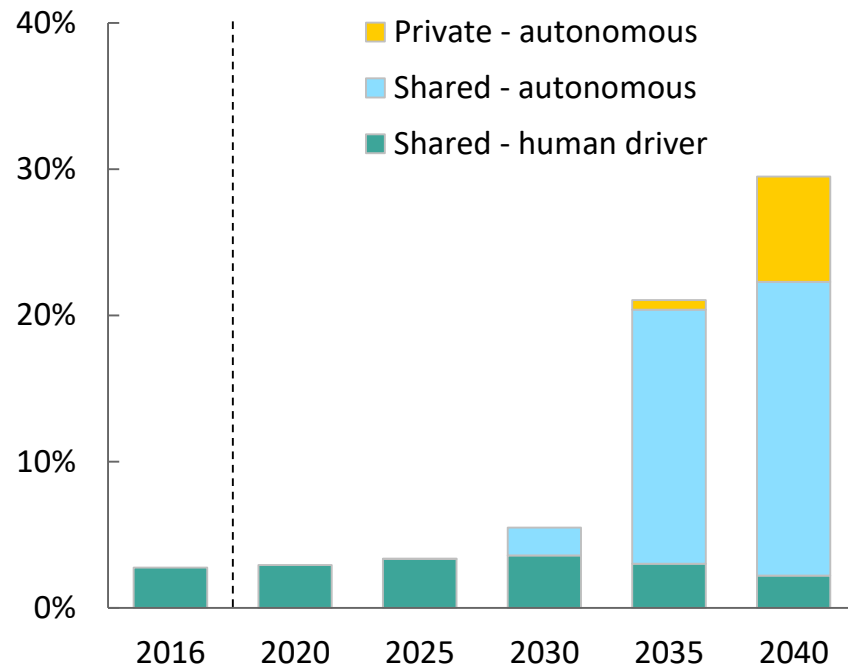
Electric cars, shared mobility and autonomy

Car kilometres by fuel type

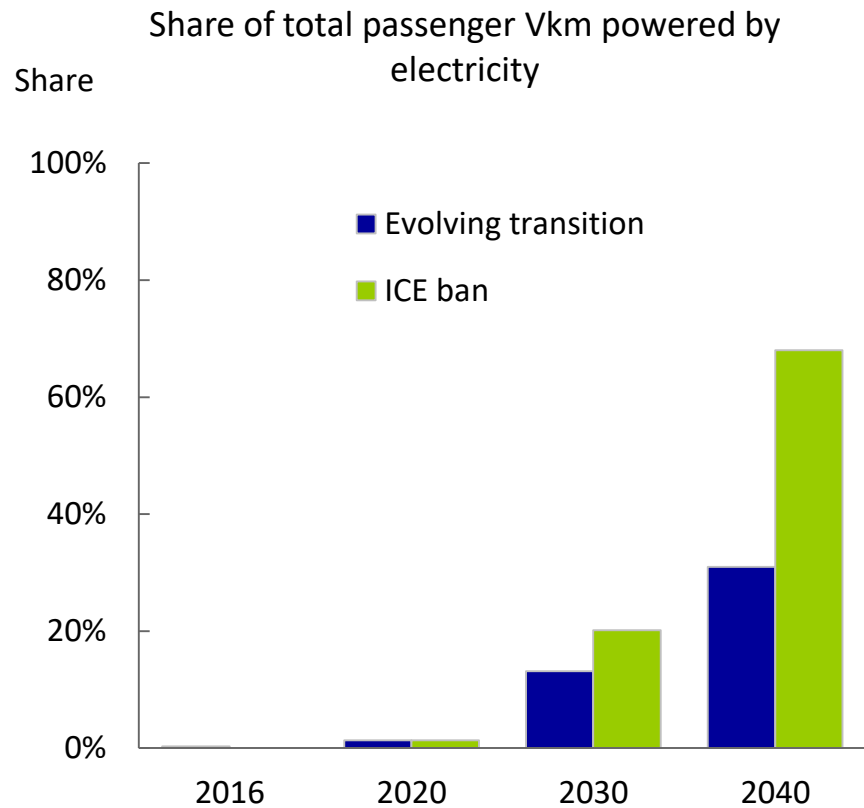
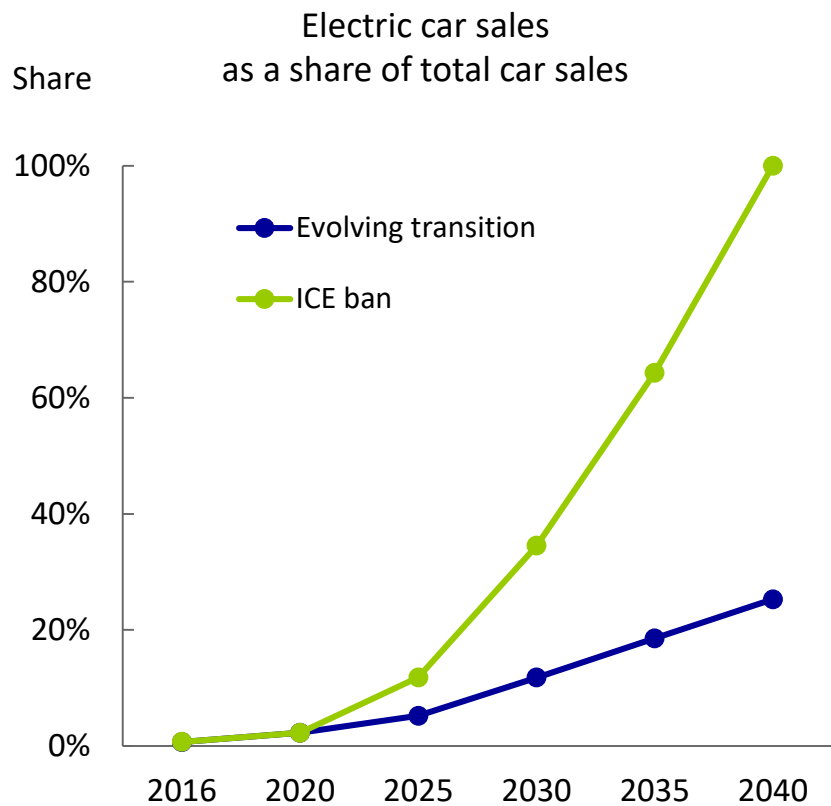
Trillion km



New mobility share of Vkm

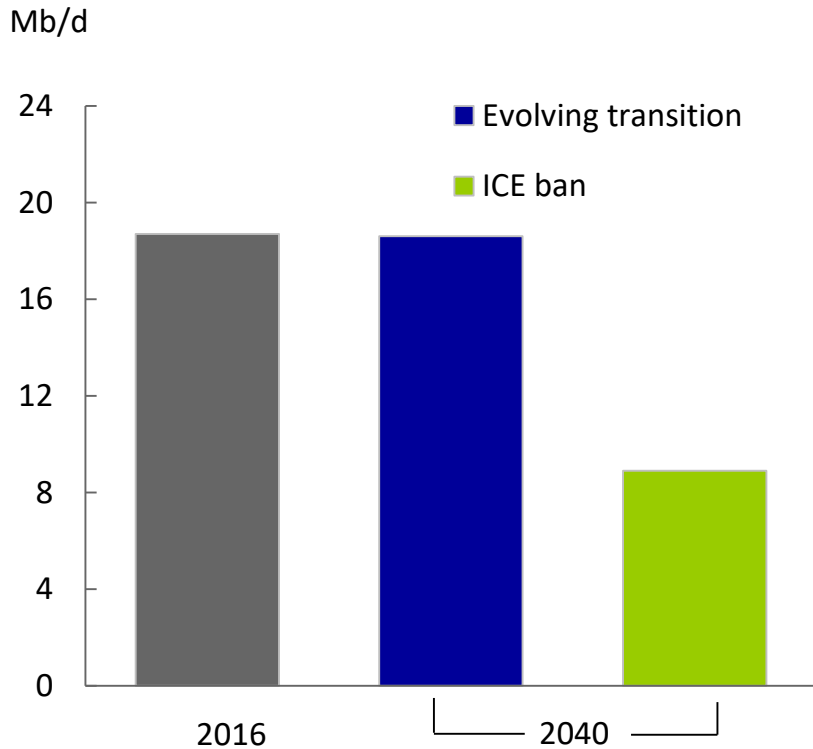


Global ban on internal-combustion engine (ICE) cars

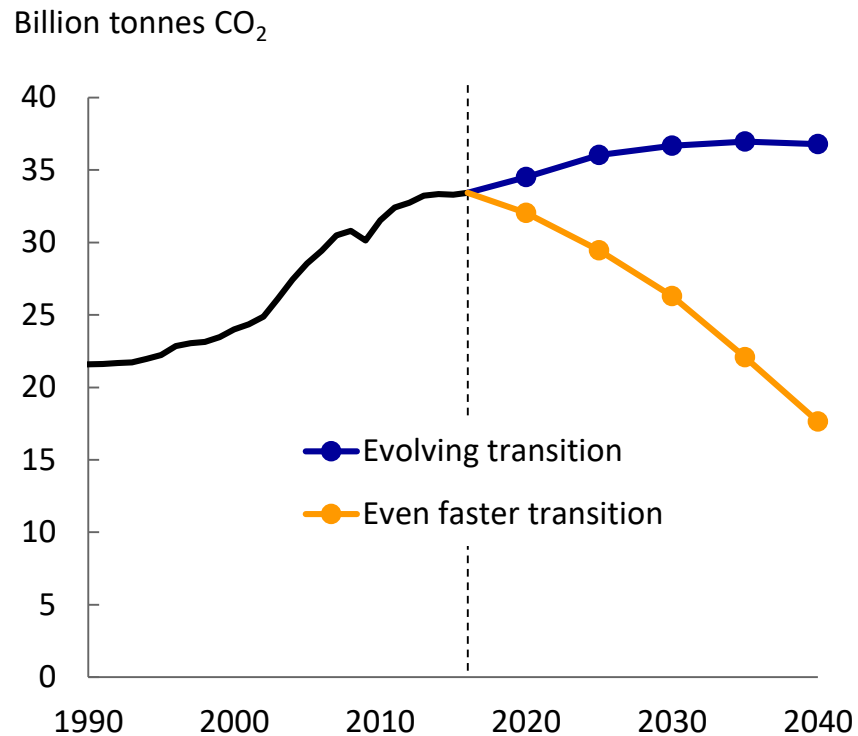


Impact of ICE ban

Passenger cars liquids demand

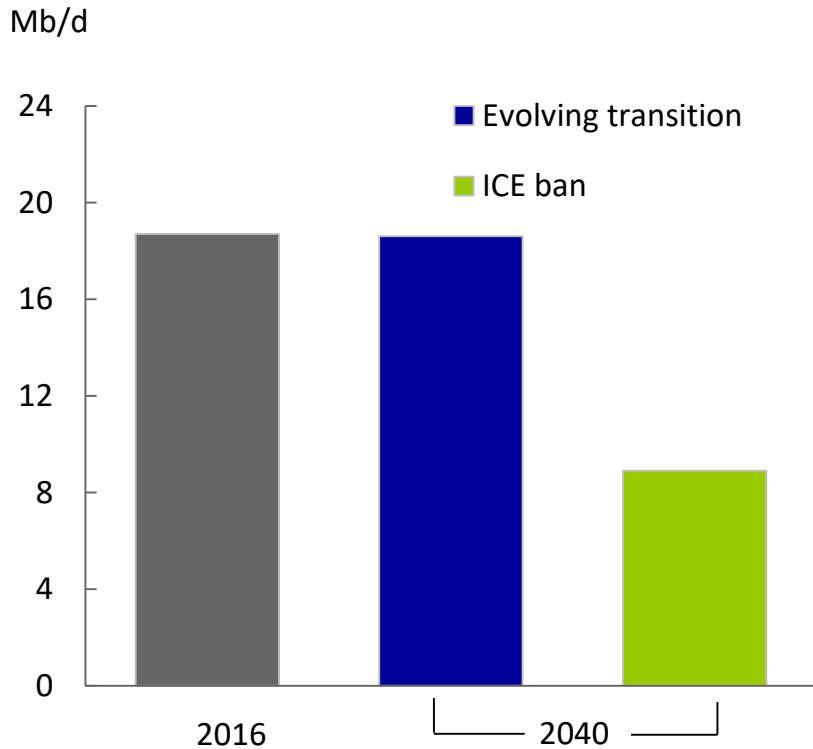


Carbon emissions from energy



Impact of ICE ban

Passenger cars liquids demand



Carbon emissions from energy

