

Session 3

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Opportunities and challenges in the energy transition

OSCE Economic and Environmental Forum, Prague, 12.9.2019

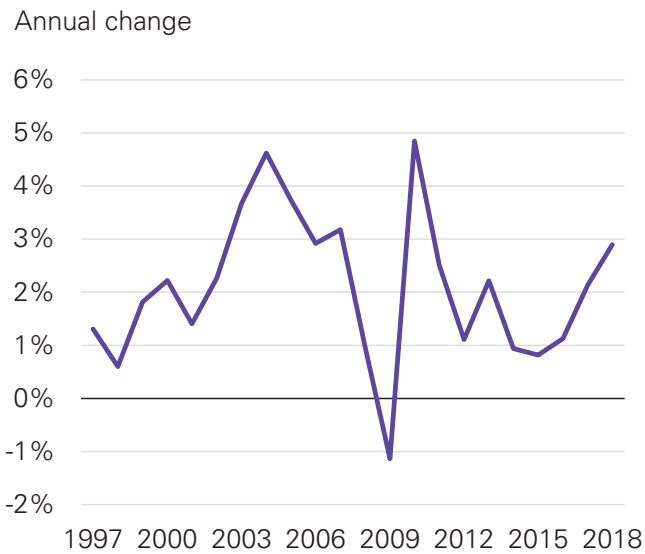
Introduction to BP



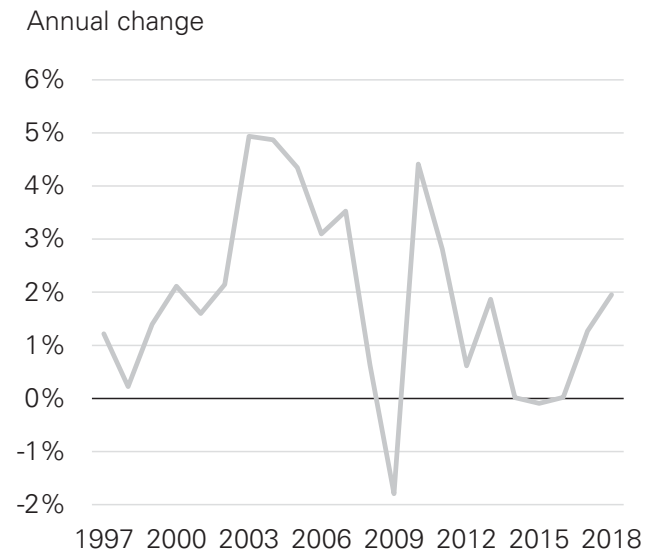
Growth in primary energy and CO₂ emissions



Primary energy growth



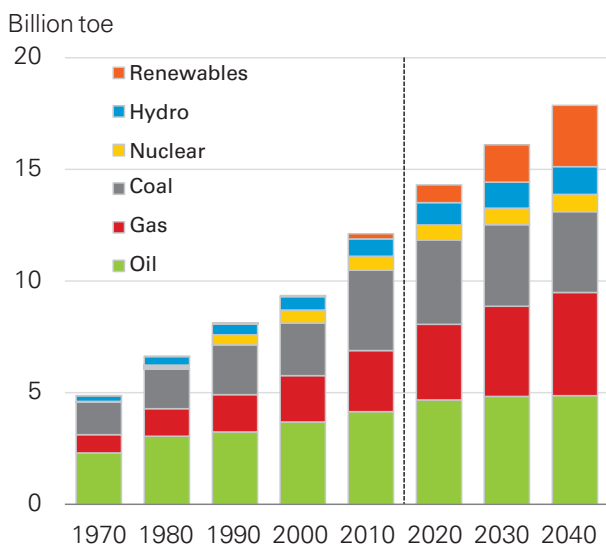
CO₂ emissions from energy use



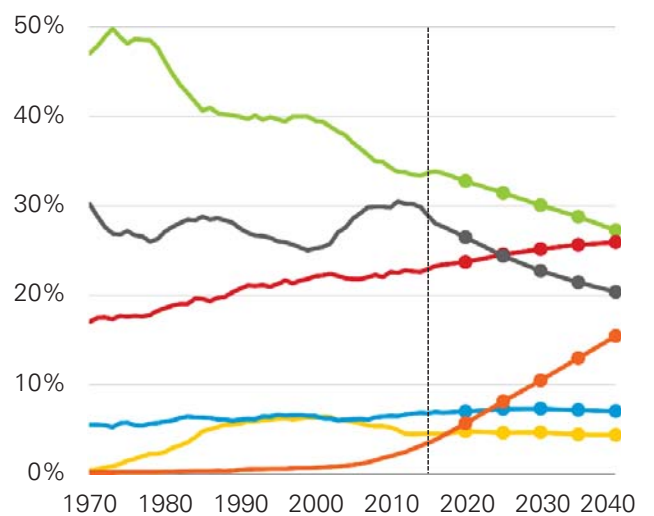
Outlook: Global energy by fuel type



Primary energy consumption by fuel



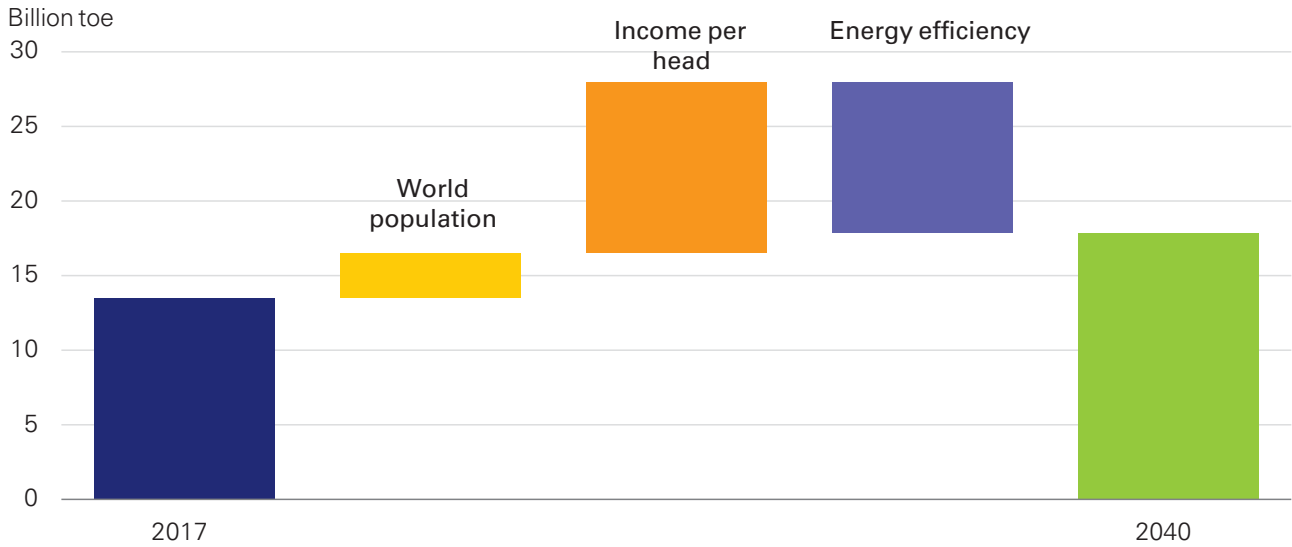
Shares of primary energy





Increase in primary energy demand

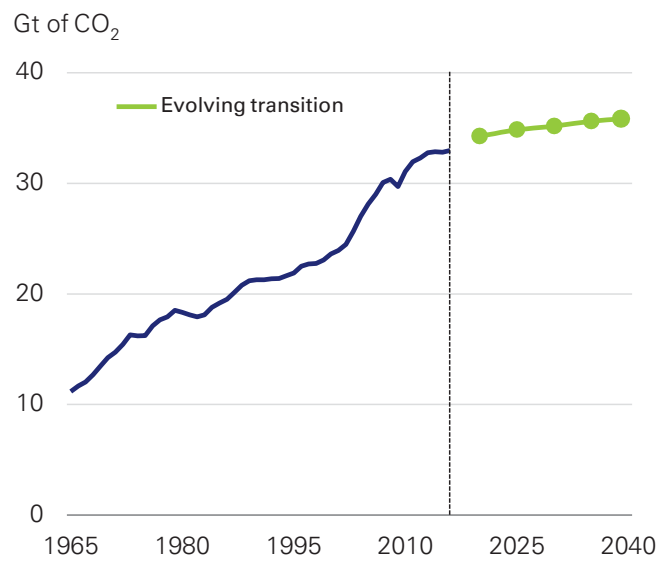
Increase in primary energy demand, 2017-2040



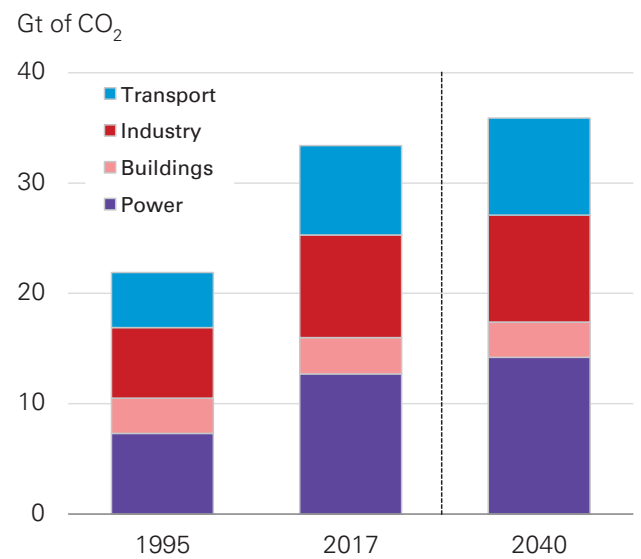
CO₂ emissions in ET scenario

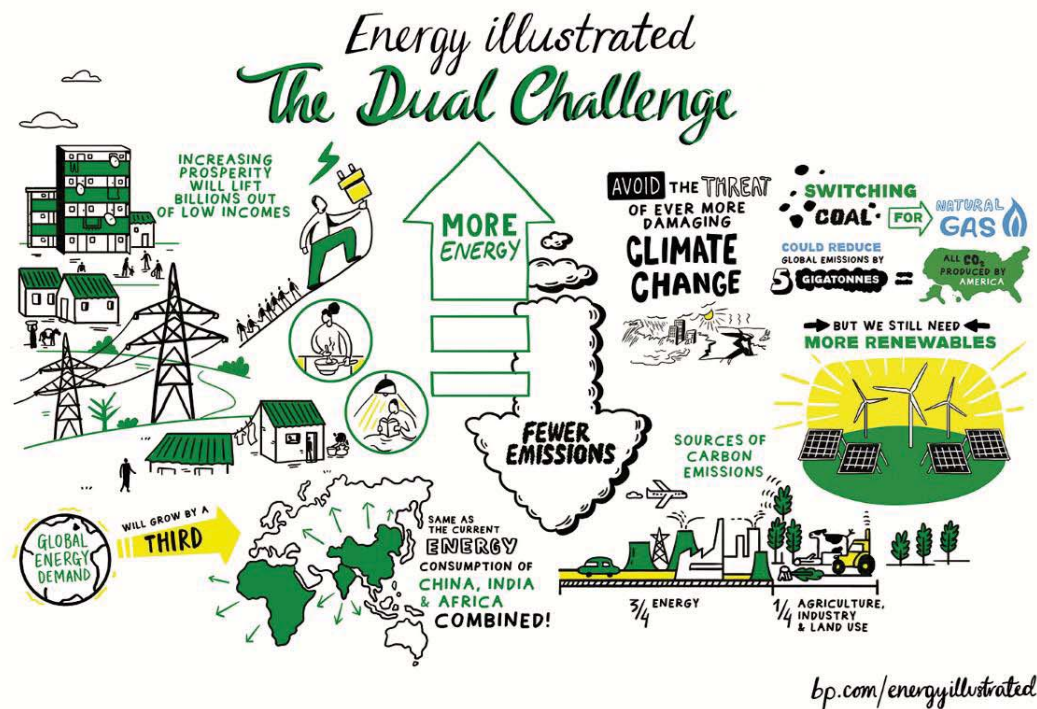


CO₂ emissions



CO₂ emissions by sector





Outlook for the European Union



The European Union, thanks to its policies, leads the global transition towards a carbon-free economy

- 8% share of global energy consumption and 4% share of global energy production in 2040
- Primary energy use in power generation grows by 10%
- But final energy consumption declines across the board
- Renewables is the largest source of energy in 2040, accounting for 29% of EU energy consumption
- Carbon emissions in 2040 decrease by 36% compared to 2017

Where we can make a difference in the energy transition



Energy & transport sector

- Power generation
- Transform the transport system
- Innovation



Governments

- Promote innovation
- Technology neutrality & markets
- Price for carbon

