



# Globale Energiperspektiver

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# The Energy World in 2050



2.0-2.2 x

Size of the global economy, compared to 2018



29-49 %

Share of solar and wind in global electricity generation, up from 7% in 2018



0.6-1.3 bn

Electric vehicles on the road, equivalent to 30% - 90% of the total LDV fleet



3,200-4,800 bcm

Global gas demand, compared to 3,900 bcm in 2018



52-118 mbd

Global oil demand, compared to 99 mbd in 2018



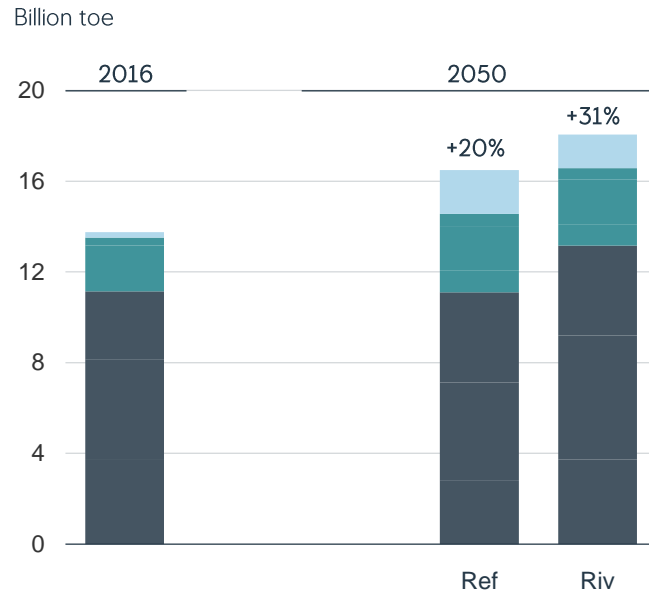
10-36 Gt

Global energy-related CO<sub>2</sub> emissions, compared to 33.1 Gt in 2018

# Where are energy markets moving today? Rivalry and Reform

Large changes, but far from a 2° world. Fossil fuels lose share, but grow in absolute terms. Massive growth in renewable electricity.

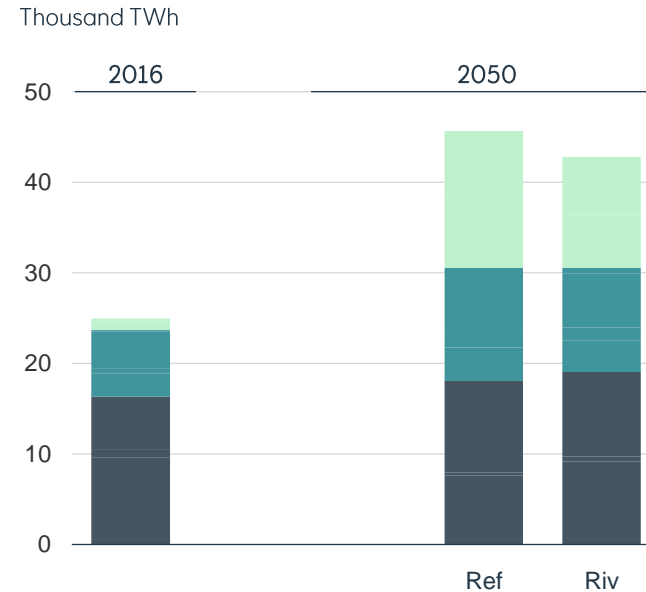
## World energy demand



- New renewables
- Other
- Fossil fuels

Source: IEA (history), Equinor (projections)

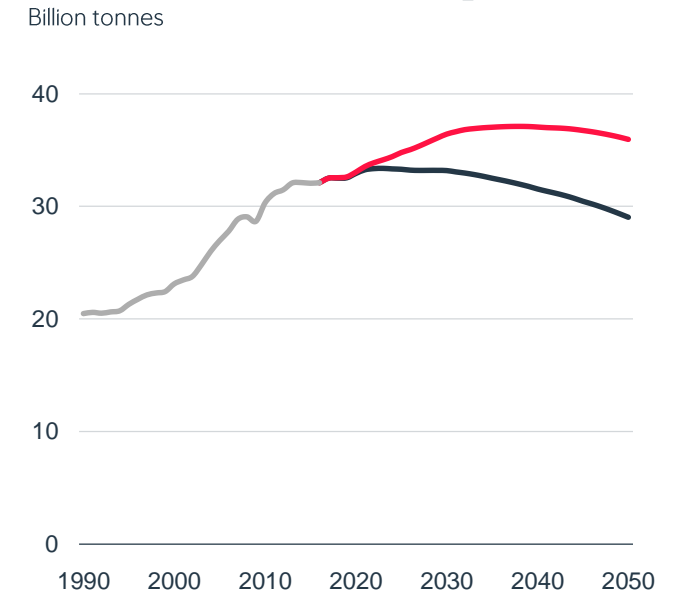
## Electricity generation



- Solar & Wind
- Other
- Fossil fuels

Source: IEA (history), Equinor (projections)

## World energy-related CO<sub>2</sub> emissions



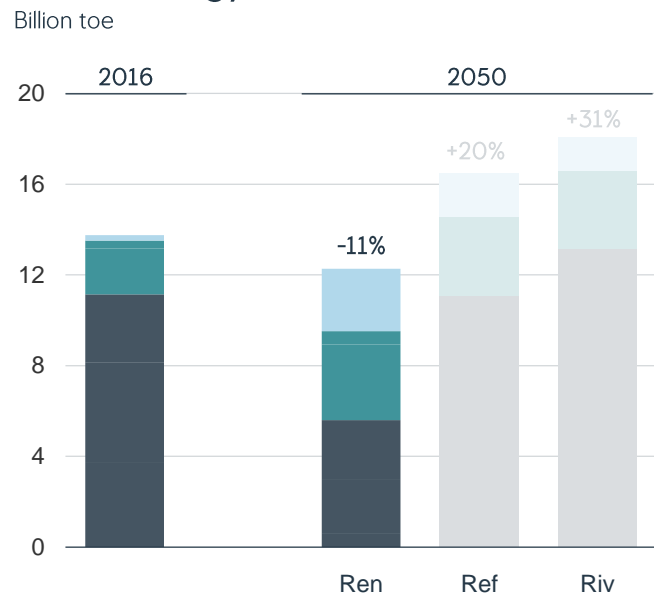
- Reform
- History
- Rivalry

Source: IEA (history), Equinor (projections)

# Renewal – where the world needs to go

Global energy-related CO<sub>2</sub> emissions need to be reduced by over 60% by 2050 – satisfying growing energy demand, much less fossil fuels

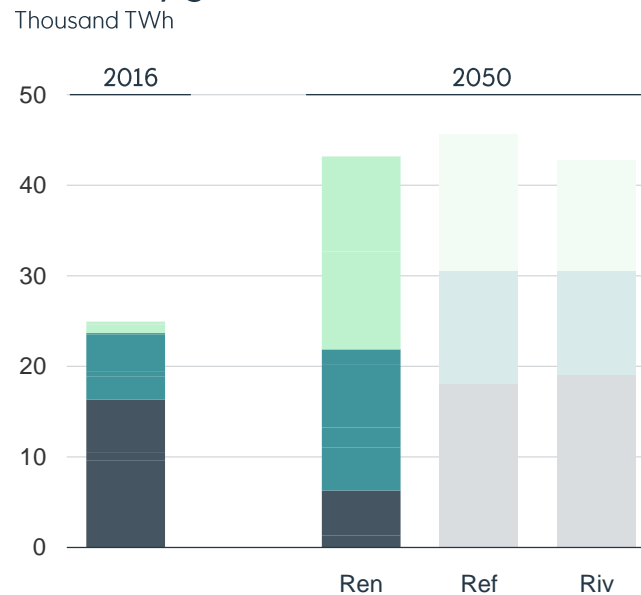
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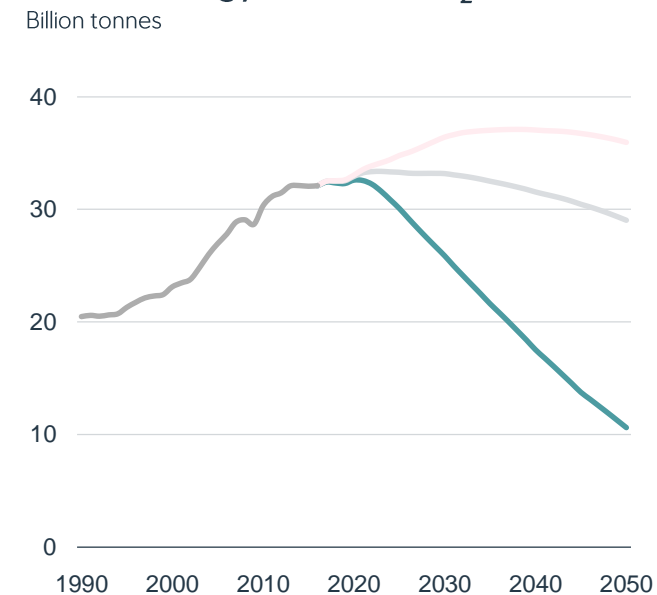
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## World energy-related CO<sub>2</sub> emissions



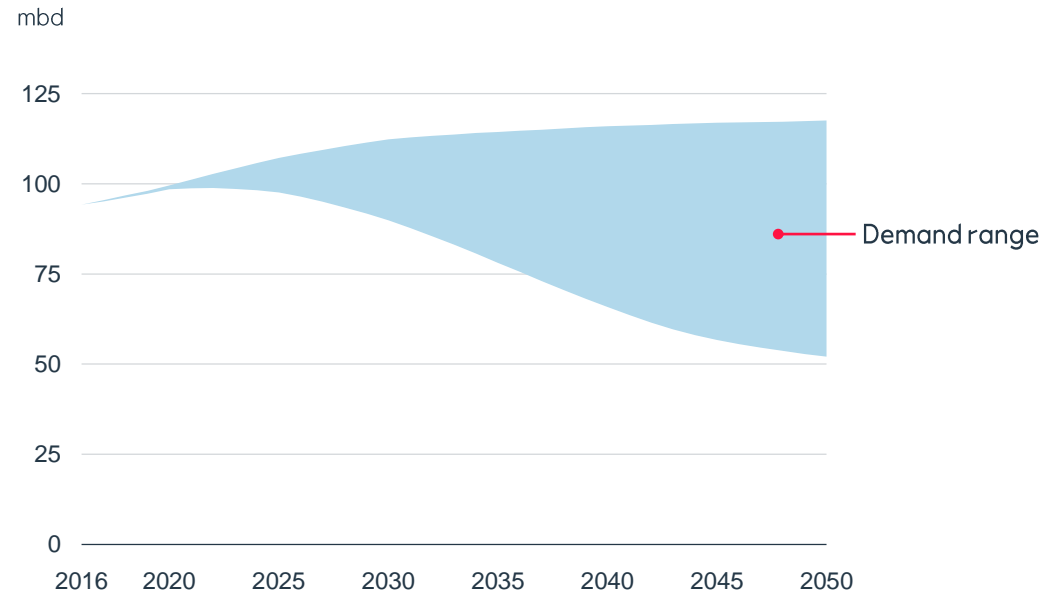
- Reform
- Renewal
- Rivalry
- History

Source: IEA (history), Equinor (projections)

# What is the need for new oil and gas investments?

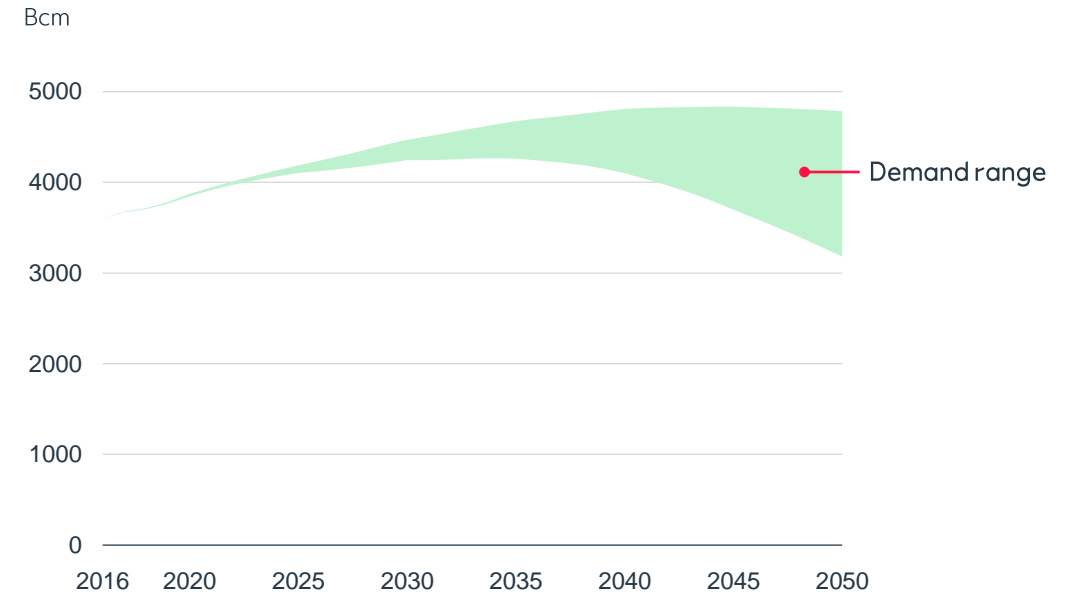
Large oil and gas investments in all scenarios, although significantly less in Renewal

### Oil demand and supply from existing fields



Source: IEA (history), Equinor (projections)

### Gas demand and supply from existing fields

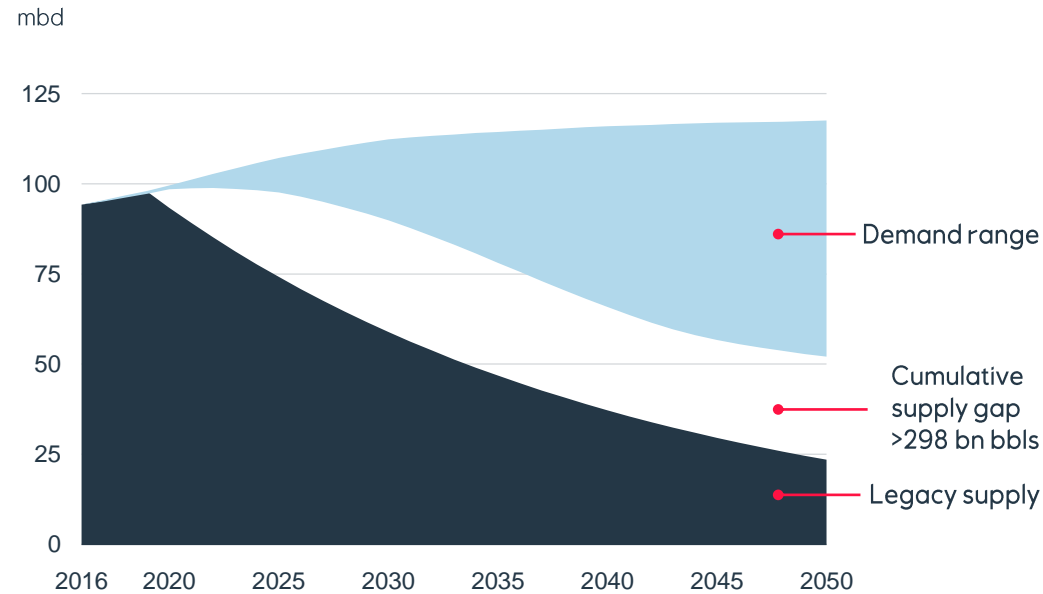


Source: IEA (history), Equinor (projections)

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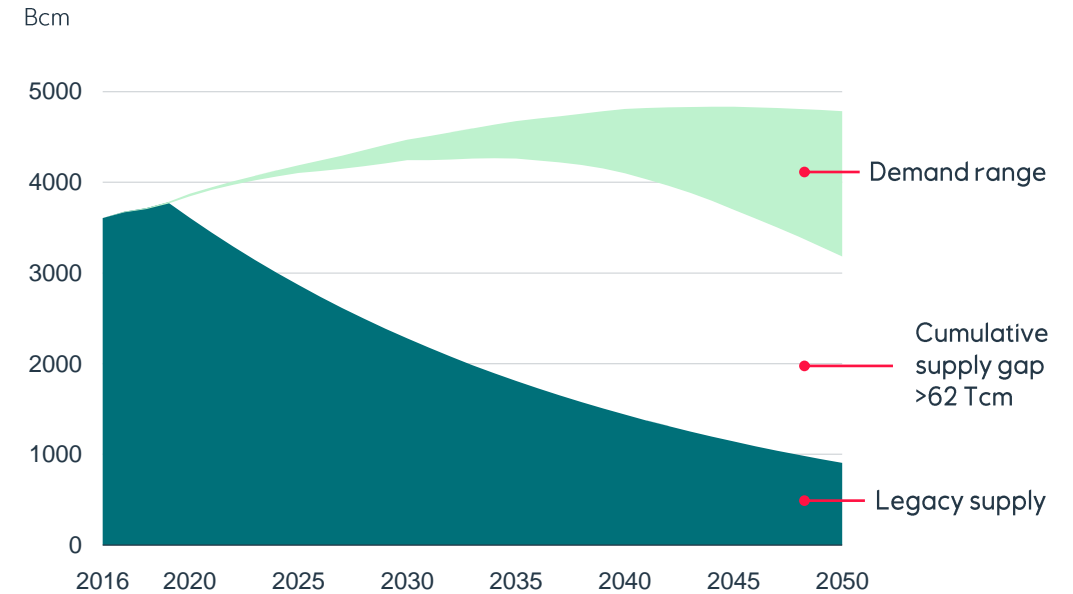
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## Oil demand and supply from existing fields



Source: IEA (history), Equinor (projections)

## Gas demand and supply from existing fields



Source: IEA (history), Equinor (projections)



## Summary

Delivering on a sustainable energy transition is a massive challenge

- Global demand for energy dependent goods, services and activities will continue to grow
- Energy transition is happening, but too slowly, given the size, scope and sluggishness of the system
- Large investments needed in the energy system



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