

MAKING NET-ZERO, 1.5°C-ALIGNED AVIATION POSSIBLE

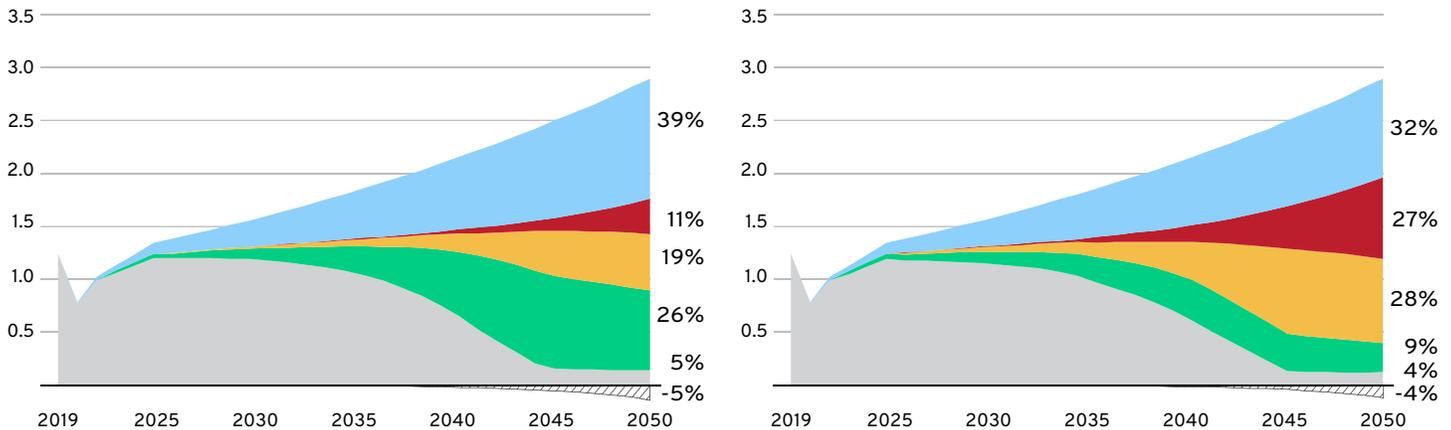


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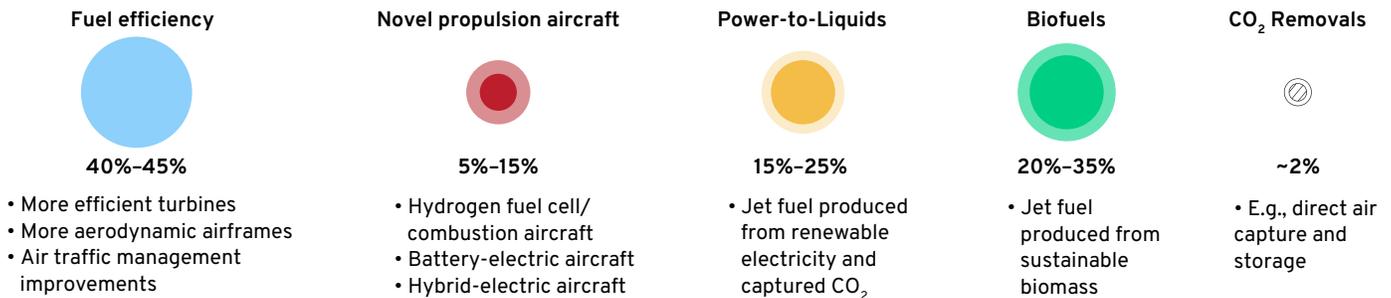
1 The solutions: Fuel efficiency gains and SAFs are the main decarbonisation options

Two scenarios: Annual GHG emissions reduction, Gt CO₂e



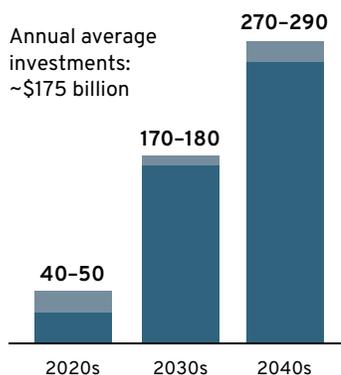
Cumulative GHG emissions of 22-21 Gt CO₂e between 2022 and 2050, compared with 47 Gt CO₂e in a Business-as-Usual scenario

Percent of cumulative GHG reduction, between 2022 and 2050



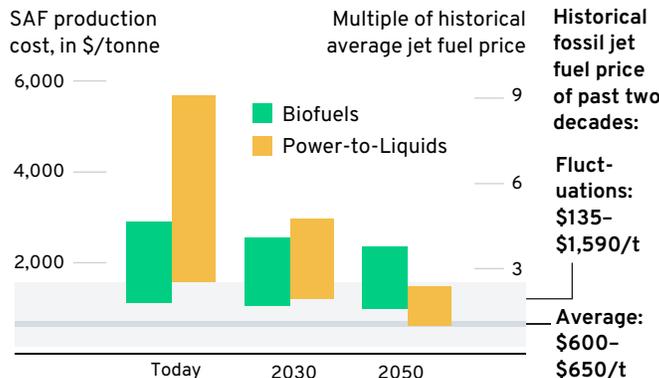
2 What it will take

Annual capital investments for net zero, billion \$ compared with a BAU scenario



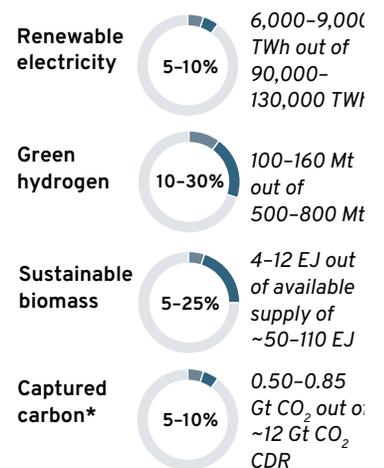
95% of investments required for fuel production and upstream infrastructure

SAFs are about 2-5x more expensive than fossil jet fuel.



Despite higher fuel costs, the cost of flying could see no increase but stay constant or even decrease by 5% by 2050 due to efficiency gains.

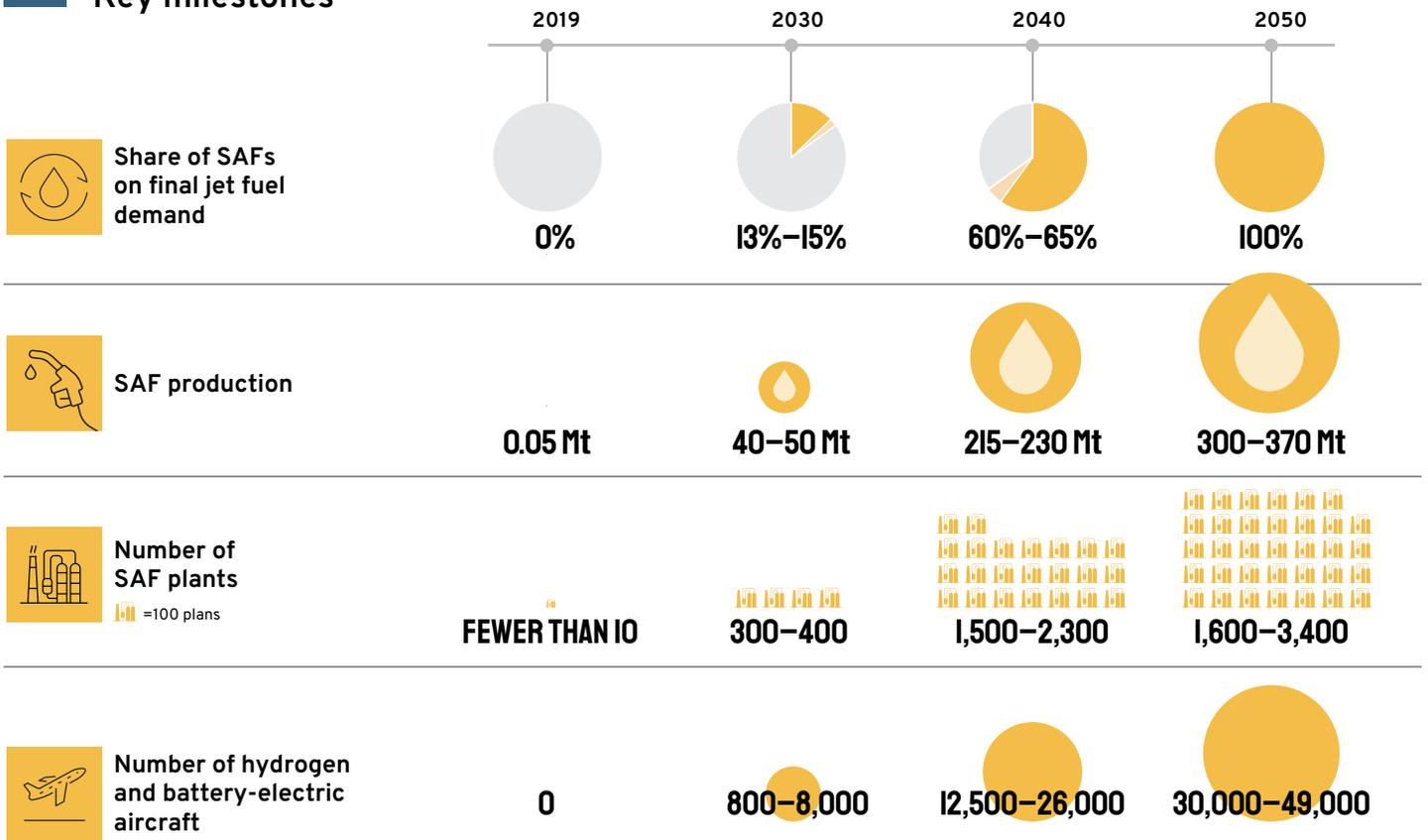
Resource requirements, share of global demand by 2050



*For PtL and CDR

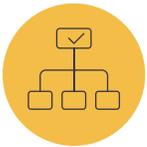
3

Key milestones



4

Priorities for this decade



INDUSTRY ACTION TO BOOST SUPPLY

- Invest in **RD&D for low-TRL technologies** and efficiency measures to reduce energy demand
- **Bring down feedstock costs** (renewable electricity, hydrogen, sustainable biomass, and captured CO₂) and **redirect biomass** use from road transport to aviation
- **Create industry consortia to share risk** for first- and second-of-a-kind projects and supply 40–50 Mt SAF by 2030



INDUSTRY ACTION TO BOOST DEMAND

- **Double current offtake agreements** between SAF producers and customers by 2025, and increase volumes by a factor of 5 until 2030
- **Boost advanced market commitments** for low-carbon technologies
- **Pool demand from multiple sectors** (e.g. hydrogen demand for shipping, steel and aviation) to unlock economies of scale



FINANCE ACTION

- **De-risk first-of-a-kind projects** via public-private partnerships and financing consortia and **develop fit-for-purpose financing models** for first- and second-of-a-kind plants
- **Encourage 1.5°C-aligned target-setting** and disclosure of annual metrics to track progress
- Establish **exclusion criteria** to trigger divestments from non-1.5°C-aligned assets and companies



GOVERNMENT ACTION

- Establish **national/ regional blending mandates** for SAFs or a GHG intensity reduction pathway via legal emission limits
- **Reduce the cost differential** between SAFs and fossil jet fuel, e.g., by direct or indirect subsidies (like a blender's tax credit)
- **De-risk first- and second-of-a-kind projects**, e.g., via blended finance, concessional loans, capital grants, or long-term guarantees, and use **green public procurement** to increase the SAF share in public-sector air travel to 20% by 2030