

# Sustainability at American Airlines

American is working to help drive the operational, policy and technological changes needed to advance the transition to a sustainable and low-carbon aviation future.

We know we have an obligation to our customers, team members, shareholders and the communities we serve to continually work to be a more sustainable airline and to do our part to address climate change. We also believe that these efforts will improve our operational efficiency and resiliency, particularly if energy security challenges persist.

Our aim is to achieve net zero greenhouse gas (GHG) emissions by 2050. To make that happen, we have set aggressive goals that match the seriousness of the challenge, and we've laid out a clear plan for how we will achieve them.

## Key Highlights

- ▶ First airline globally to receive validation from the Science Based Targets initiative (SBTi) for our Paris-aligned 2035 GHG emissions reduction targets.
- ▶ Reached agreements to purchase more than 620 million gallons of sustainable aviation fuel (SAF), fulfilling roughly 20% of our goal to replace 10% of our jet fuel with SAF by 2030.
- ▶ Improved fleet fuel efficiency by 10.2% compared with 2013, avoiding 19 million metric tons of CO<sub>2</sub>.
- ▶ Sourced 1.35 million gigajoules (GJs) of electricity from renewable sources and from SAF since 2019—putting us on track to achieve our goal of 2.5 million GJ's by 2025.
- ▶ Aligned reporting with the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) since 2020.
- ▶ Named to the Dow Jones Sustainability North America Index for the second consecutive year in 2022—the only passenger airline in the index.
- ▶ Received a CDP Climate Change score of "A—" for the third consecutive year in 2022—the highest score among U.S. passenger airlines.

## OUR CLIMATE GOALS

### ACHIEVED

**Received SBTi validation**

FOR OUR 2035 GHG EMISSIONS REDUCTION GOAL

### IN PROGRESS

ACHIEVE ABSOLUTE REDUCTION OF  
**50m gallons of jet fuel from fuel-efficiency initiatives**

BY 2025

SOURCE

**2.5m GJs of cost-competitive renewable energy**

BY 2025

REPLACE

**10% of our jet fuel with SAF**

BY 2030

REDUCE

**GHG emissions intensity by 45%**

BY 2035

REDUCE

**Scope 2 emissions by 40%**

BY 2035

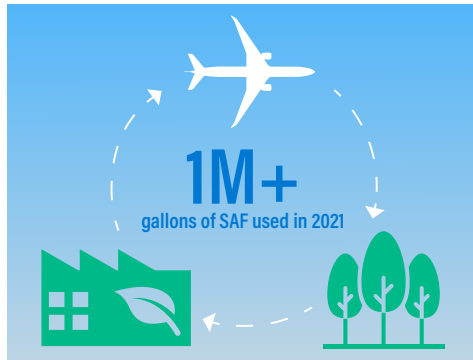
**Achieve net zero emissions**

BY 2050

# Advancing Our Sustainability Strategy

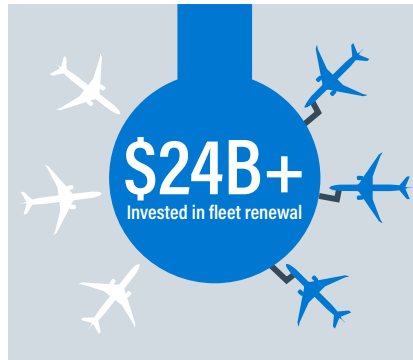
More than 90% of American's total carbon footprint comes from our use of jet fuel, so our strategy for reaching net zero emissions by 2050 is focused on running an ever more fuel-efficient operation, with more fuel-efficient aircraft, powered by low-carbon fuel. Key actions we're taking to do so include:

## Purchasing and helping scale sustainable aviation fuel (SAF)



The clearest near-term way for us to decarbonize is by using SAF, which has up to 80% lower life cycle emissions relative to conventional jet fuel. American was the only member of Airlines for America to report using more than 1 million gallons of SAF in 2021, and we consumed more than 2 million gallons of SAF in 2022. We've reached agreements to purchase more than 620 million gallons of SAF through 2030.

## Modernizing our fleet to improve fuel efficiency



Replacing older, less fuel-efficient aircraft with new, more efficient ones is a key component of our strategy. Since 2013, American has invested over \$24 billion in more than 600 new aircraft—giving us the youngest mainline fleet among U.S. network carriers. Half of our mainline fleet is less than 10 years old.

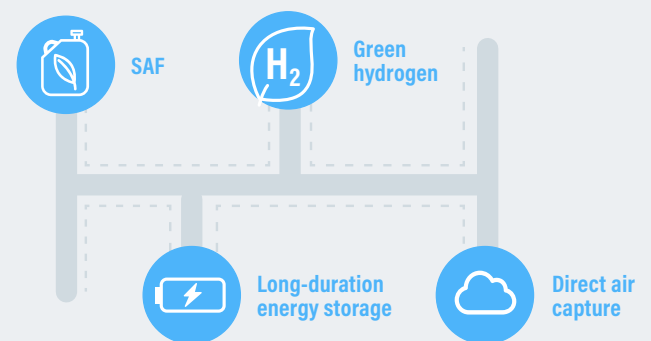
## Supporting next generation aircraft development



American is helping advance technologies that enable aircraft to be powered by low- and no-carbon fuel sources. For example, in 2022 we announced direct investments in ZeroAvia and Universal Hydrogen, companies working to develop hydrogen-electric propulsion technology and green hydrogen distribution, respectively.

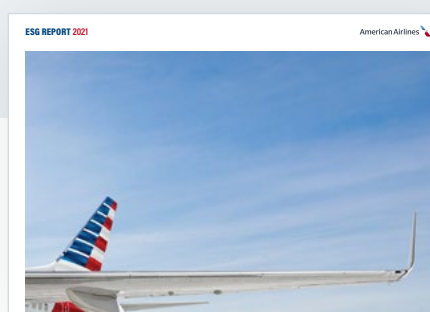
## Catalyzing investment in breakthrough technologies

American collaborates across the public and private sectors to help advance the policy and technology solutions needed to get to net zero. One way we are doing that is as an anchor partner of Breakthrough Energy Catalyst, which is working to accelerate the commercialization of critical technologies—including SAF—for decarbonization. American has committed to invest \$100 million in these efforts. In 2022, Catalyst invested \$50 million to help LanzaJet—a SAF producer using novel alcohol-to-jet technology—build a demonstration plant that will be critical to scaling production.



➡ Learn more about American's sustainability efforts at [www.aa.com/esg](http://www.aa.com/esg)

⬇ Download the latest ESG report at [www.aa.com/esgreport](http://www.aa.com/esgreport)



**American Airlines**  
Destination Net Zero

JANUARY 2023