Frequently Asked Questions

What is the SAF Dashboard?
The SAF Dashboard is a data visualization tool that provides an estimate of worldwide publicly announced SAF production capacity. By allowing the user to explore SAF capacity by pathway, country and operational date, we are putting data first in pursuit of a world with more SAF.

Why did Boeing develop the SAF Dashboard?
To support the commercial aviation industry in its collective efforts to scale SAF and ultimately decarbonize, Boeing created the SAF Dashboard.

Through education and awareness of the disparity between SAF capacity and aviation needs via visual tools, the Dashboard aims to support conversations and catalyze necessary actions to close the gap to jet fuel demand.

Where does the data come from?
Core data is provided by BloombergNEF.

How often is the data updated?
The data is updated quarterly.

How does Capacity differ from Actual Production?
Capacity reflects the amount a plant can produce, whereas actual production reflects the total amount actually produced. Full capacity is assigned to the plant in the year it comes online, but some plants may not ramp up to full production immediately, or may not fulfill total capacity. Note that the values in this dashboard reflect announced capacity, and not actual production for the year.

Is all of the capacity announced guaranteed to become available?
An announcement of capacity isn't a guarantee that the capacity will become available, or that the facility will produce at the capacity announced. Facilities are in varying stages of development, and their status may evolve over time. If projects are abandoned or are put on pause, they drop off the map. In addition, note that even Operational facilities may not end up producing SAF at the full capacity announced. A number of factors, including when in the year the facility starts producing, what the product splits are, etc. influence the amount of actual production. The user can use the "Actual Production %" dropdown to set an assumption about the percent of capacity that will end up being produced."

Why isn't facility-specific information displayed?
The dashboard is intended to reflect announced production capacity at an aggregate level by region and to explore the challenges of overall SAF availability rather than compare specific projects and providers. The focus is on aggregate supply and demand by region.

What does "Unknown" under the Operational Date toggle represent?
Unknown reflects the projects without a known Operational Date. All project volumes with an unknown Operational Date are included at the end of the time frame.

What does the "Other" Fuel Type represent?
"Other" includes additional non-SAF and non-Renewable Diesel (RD) capacity, projects where the SAF vs RD breakdown is not available, and/or the difference between total capacity and SAF/RD.

Does the volume of fuel listed reflect Blended or Neat?
The amounts listed are in "neat" terms. The volumes listed for each region are the total anticipated production capacities of the refineries in a given region.

How is the map coloring determined?
The map colors are based on the region's percent of the total supply. The center of the scale is intentionally skewed, in order to show color variation in countries outside the U.S.

What does Operational Date show?
Selecting an Operational Date shows the total capacity expected to be available by that year. For example, if the operational date is set at 2025 it shows the all capacity operationally available in 2025 (including all that had been announced previously and is still in operation).

How is the split between SAF, Renewable Diesel, and Other determined?
The chemical processes that result in SAF also tend to create a variety of co-products. Each producer makes individual choices on the relative mix of SAF, renewable diesel, and other products based on the specific feedstock used, chemistry of the production process, and on the economics of the design of the individual refinery. Any announced fuel mix details are logged as such. For projects that do not provide details of their output, a default is assigned based on the technology utilized. If projects stress their focus on SAF production, a Max-jet output profile is applied.

What type of projects are included in the dashboard?
The dashboard includes projects in various phases of their life cycle. However, note that capacities for Planned plants are approximations and are liable to change. Certain early stages announcements may also be excluded, and as projects become paused or abandoned, they drop off the map.

Are the values rounded?
Capacity amounts are rounded. Note that rounding may cause differences between totals and aggregate totals in instances where the fuel type is rounded prior to being aggregated. (i.e. a rounded total versus SAF rounded + RD rounded + Other rounded)

Why are some values negative?
Depending on the filters applied, some values may be negative if the plant shifts its production split. For example, if 50M gallons of capacity is shifted from Renewable Diesel to SAF, SAF will show as +50Mgal and Renewable Diesel will show as -50Mgal.

Why isn't supply forecast beyond 2034?
The data in this dashboard is intended to reflect announced projects and capacity, and is not a projection of scenario estimates.

On the Regions tab, where do the Low, Mid, and High scenarios come from?
The low, mid, and high scenarios are notionally based on Waypoint 2050 SAF scenarios.

Where does jet fuel consumption come from?
Jet fuel consumption is based on Cascade's projections, and assumes fleet renewal.