



Solakonferansen

Sustainable aviation fuel

Arne Ljungmann

21.09.2022

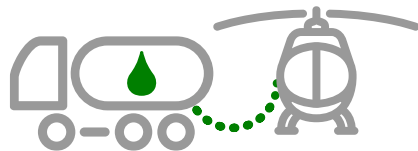
bp's ambition

And Air bp's role



Become a **net zero** company by 2050 or sooner...

Carbon neutral operations



Sustainable aviation fuel



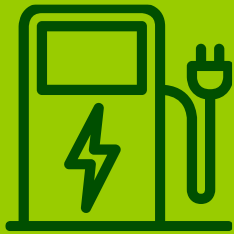
...and help the world get to **net zero**

Options to **decarbonize** aviation energy supply are based on 4 key technologies

Biofuels



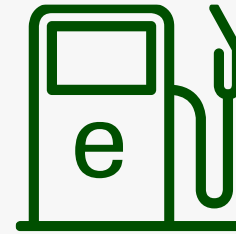
Electricity



Hydrogen



eFuels



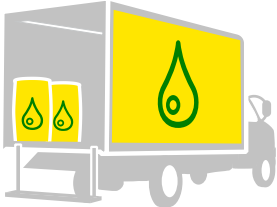
A white fuel tanker truck is parked on an airfield. The truck has 'airrip' written in green on its side, along with a green sunburst logo. Other markings include 'JET A-1' and 'MAG'. The truck is viewed from a low angle, showing its rear and side. The background is a clear blue sky and a flat airfield surface.

What is sustainable aviation fuel?

Recap of key points



The aviation industry aims to achieve net zero carbon emissions by 2050. The adoption of SAF is a key part of achieving this goal.



SAF is made from sustainable feedstocks such as used cooking oil and household waste.



SAF produces up to 80% fewer lifecycle carbon emissions than the traditional jet fuel it replaces.



SAF has been designed as a 'drop-in' fuel when blended up to 50% with traditional jet fuel.

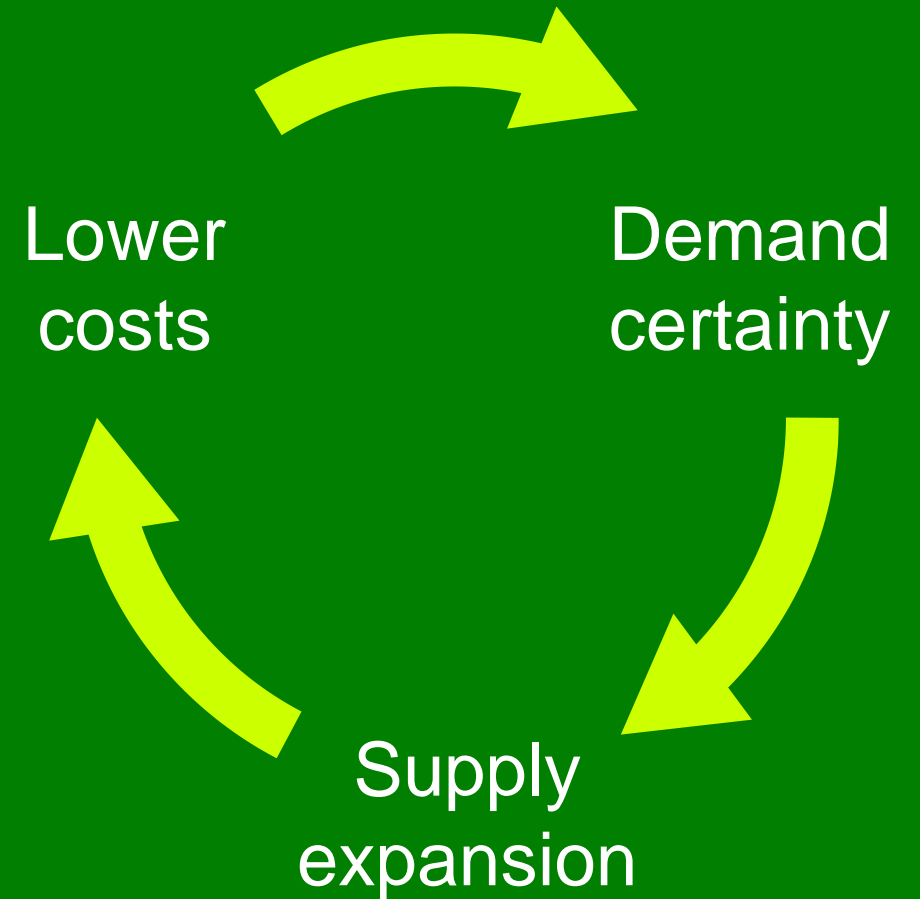


The SAF blend is certified as Jet A or Jet A-1 and is safe to use in existing aircraft and airport infrastructure.

How can SAF goals be achieved?

Two drivers of demand:

- Government mandates
- Ongoing voluntary commitments



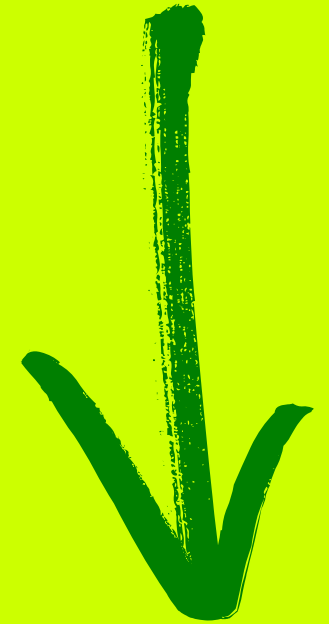
Lifecycle carbon emissions

What is important is
that SAF is purchased...

... what is not important is
in which aircraft the SAF molecules are burned.



Carbon emissions
e.g. burning fuel



Carbon removed /
avoided
e.g. feedstock

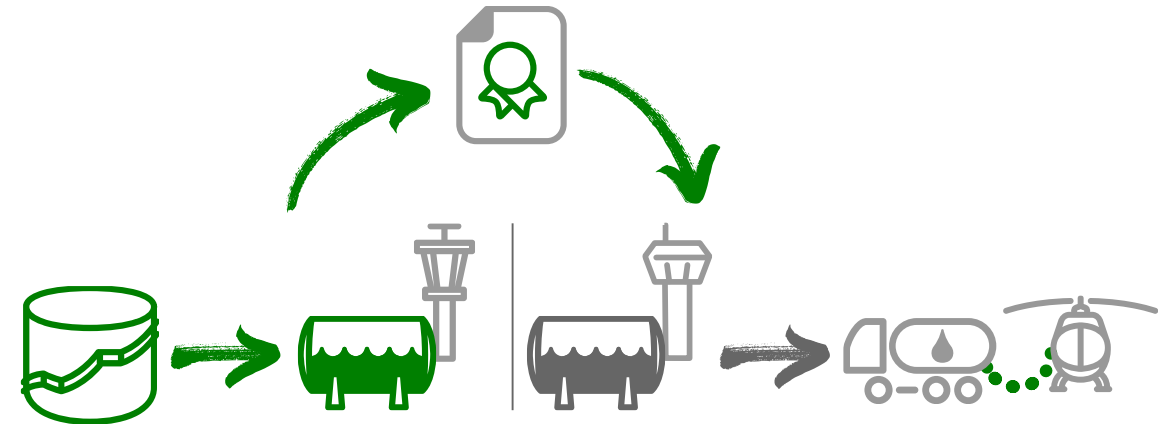
Purchase options

Look at annual volume requirements – **not** flight by flight

Physical



Book and claim



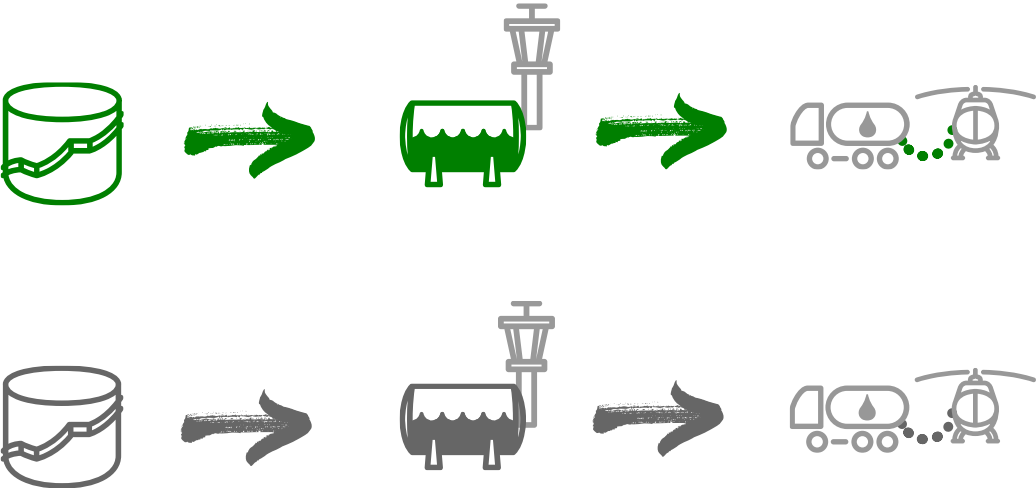
Key

■ SAF

■ Traditional jet fuel

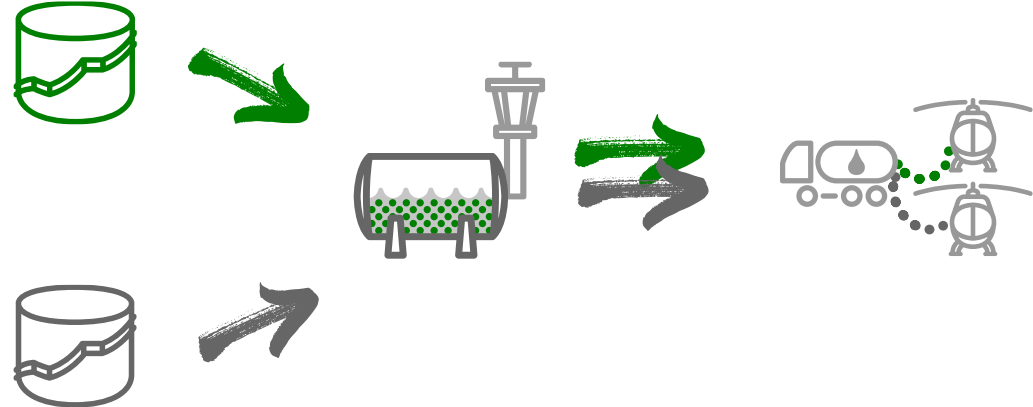
Physical supply options

Segregation



Physical segregation to traditional jet fuel all the way to wing tip.

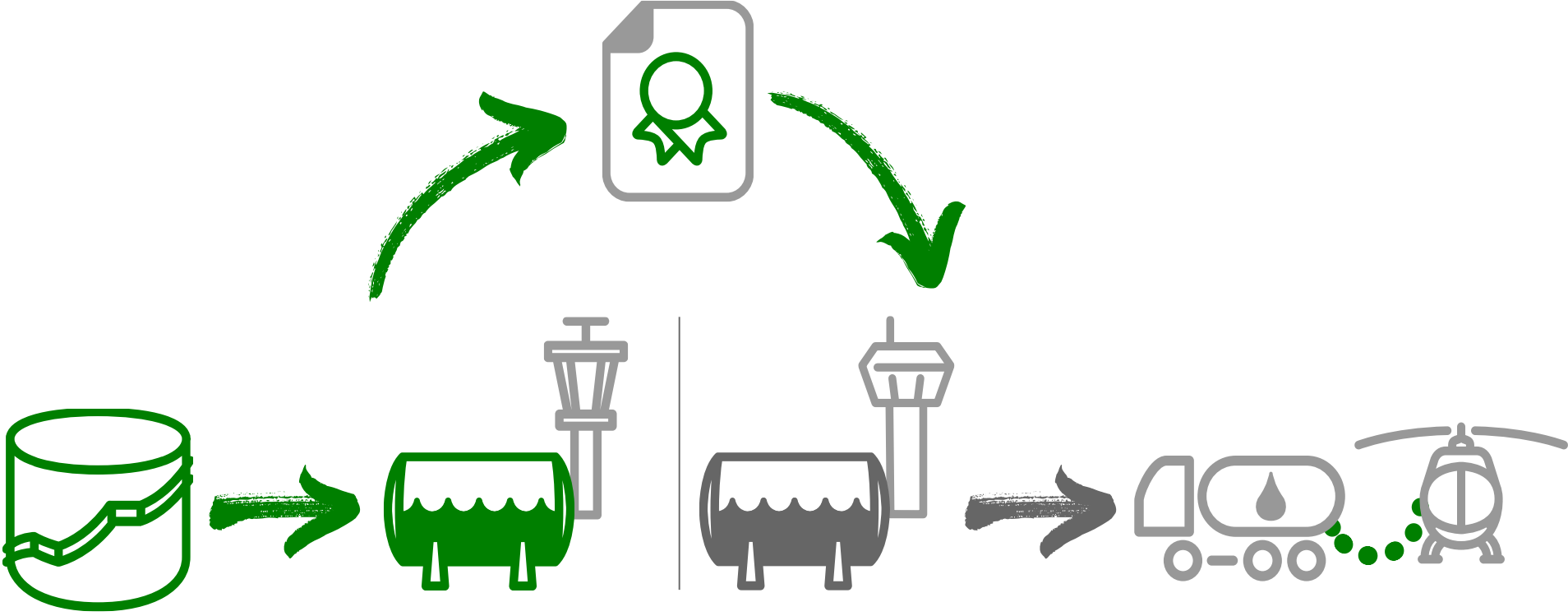
Mass balance



Co-mingled in airport storage or pre-airport pipelines.

Key
■ SAF
■ Traditional jet fuel

Book and claim



Recap



Questions

