

Unit 8 - 3 Ways to Make Flying More Climate-Friendly

Question 1.

Ryah Whalen opens by stating that aviation currently accounts for approximately what percentage of global CO₂ emissions, and where could that figure rise by 2050 if no action is taken?

Question 2.

List **all three** strategies Whalen proposes to reduce aviation's environmental impact.

Question 3.

Why do smarter plane designs—such as improved aerodynamics and lighter materials—help reduce emissions?

Question 4.

Fill in the blanks:

"Eco-friendly fuels, such as _____ biofuels and synthetic kerosene, can cut lifecycle CO₂ emissions by up to ____%."

Question 5.

What emerging technology involving hydrogen does Whalen highlight, and what is its main potential environmental benefit?

Question 6.

Briefly explain one challenge that must be addressed for hydrogen-powered aircraft to become viable at scale.

Question 7.

What role do governments and industry partnerships play in achieving flight decarbonization, according to Whalen?

Question 8.

She mentions the Aviation Climate Taskforce. What is its purpose?

Question 9.

Whalen argues that relying solely on individual consumer behavior (e.g., fewer flights) is insufficient. Explain why.

Question 10.

In **2–3 sentences**, evaluate this statement using examples from the talk:
"Meaningful change in aviation requires systems-level investment, not just passenger choices."