



Aviation Decarbonisation: Sustainable Aviation Fuel

Reading Test

EXAMPLE

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Student

Time: Approximately 1hour

Two types of lesson

Lesson#1: [Easy] ***** [B2/C1]

- 1. Predict the content of the text by reading the title. Write down the key terms & ideas.
- 2. Read the text. Check the unknown words with a dictionary.
- 3. Answer the comprehension questions.
- 4. Check your answers with the provided key (pass mark is 70%).

Lesson #2: [Hard] ***** [C1]

- 1. Read the text without looking up any words.
- 2. Answer the comprehension questions.
- 3. Check your answers with the provided key (pass mark is 70%).

Teacher

Two types of lesson

Lesson#1: [easy] ***** [B2/C1]

- 1. Distribute **text 1 (without reference words underlined)** a week before the test. Students read, check vocabulary & meanings.
- 2. Test day. Distribute text 2 (with reference words underlined) & the questions (no dictionary or notes).
- 3. Set 1 hour to read the text & answer the questions.
- 4. Take in & correct or go through answers in class (pass mark is 70%).
- 5. Extra activity. Students write the *summary (add 30 minutes to the test).

Lesson #2: [hard] ***** [C1]

- 1. Test day. Distribute text 2 (with reference words underlined) & the questions.
- 2. Set 1 hour to read the text & answer the questions.
- 3. Take in & correct or go through answers in class (pass mark is 70%).
- 4. Extra activity. Students write the *summary (add 30 minutes to the test).



^{*}Summary writing: www.academic-englishuk.com/summary



Aviation Decarbonisation: Sustainable Aviation Fuel (Text 1)

By C. Wilson (2022) **EXAMPLE**

Aviation today plays a key role in the size and sta	ate of
important in keeping people connected across	the world. However, as we continue to travel
more and	as seen in the \$3.5tn of the world's
GDP it represents, global carbon emissions as	a result of air could
	(Vigeveno, 2021). According to Moyes (2021),
as a return flight from London to San Francisco h	
CO2e, coupled with the fact that the number of	
reach 8	in aviation
as the overall aim of net zero by 2050 (Departn	
we are to	aviation.
we are to	aviation.
One of the most effective	sustainable aviation
fuel (SAF). According to the Department for Tra	
be the	represent yet are
accountable for over 60% of UK aviation emissi	
	ustomers are beginning to not only recognise
the benefits of SAF in terms of emission reduct	
paying extra for flights which use it. As roughly	· · · · · · · · · · · · · · · · · · ·
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	as the Low-Carbon Fuel Standard, whereby
tradable credits are awarded to the fuel supplie	
2021),	encouraged to commit to funding SAF, the
less costly flights will be long-term. To achieve	this,
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	increase the production and supply of SAF
through more financial incentives and funding.	This
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	and creates economic prosperity, thanks to
the annual £700m to £1.6bn in Gross Value Add	ded (2021).
SAF, also known as bio-jet, is a low carbon alter	native produced from a variety of sustainable
include	municipal household
and business waste such as packaging, paper	and textiles, forestry residue, which includes
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	containing lipid oils, and halophytes such as
algae (Moyes, 2021; CPP, 2021). As SAF is sim	ilar fuel,
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	without any major modifications, making it a
safe 'drop in' option for all types of aircraft, whi	
its	an aircraft's hourly fuel burn, but also leads
to a 70% fall in carbon dioxide emissions an	•
te a 70% fair iii carbon aroxide emissions an	Transport,
2021; CPP, 2021).	Transport,
2021, Ci i , 2021,	
Nevertheless, as SAF currently constitutes les	es than 0.1% of the
·	
every year, its (Vigovone 2021) This is largely due to the low	reach eight times higher
(Vigeveno, 2021). This is largely due to the low	_
as	, which



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limited demand and
to that of traditional jet fuel (Moyes, 2021). There is also growing concern regarding how
SAF have accused them of greenwashing
that is to say, misleading the public into thinking the
to make SAF, such as sugarcane and palm oil
cause damaging consequences such as deforestation,
(2021).
Therefore, although SAF is not completely free of carbon emissions, it causes considerably
fewer that increasing production of SAF a
viable option. Vigeveno (2021) argues for the introduction of 'blending mandates' which
determine that a specific amount jet fuel
whereas Moyes (2021) claims that more research, development and marketing of innovative
sustainable governments to encourage
investment from stakeholders in technologies which process feedstocks more efficiently
would go some way to n the increase in
emissions.
emissions.
Reference list
(CPP), (2021). [online].
Available at: https://compareprivateplanes.com/articles/sustainable-aviation-fuel-saf- [Viewed 28.06.2022].
Department for Transport, (2021). [pdf]. Available at:
$\underline{\text{https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment data/file/1002716} \\$
/jet-zero-consultation-a-consultation-on-our-strategy-for-net-zero-aviation.pdf [Viewed 28.06.2022].
(2024) Containable minting first
(2021). Sustainable aviation fuel— ? Available at: https://www.bp.com/en/global/air-bp/news-and-views/views/what-is-sustainable-aviation-fuel-
saf.html [Viewed 28.06.2022].
Shell Global, (2021). [online]. Available at:
https://www.shell.com/energy-and-innovation/the-energy-future/decarbonising-
aviation.html?utm_source=&utm_medium=social_organic&utm_content [Viewed 28.06.2022].

 $\label{thm:continuity} \begin{tabular}{ll} Vigeveno, H., (2021). A \emph{viation's flight path to a net-zero future} \end{tabular} \begin{tabular}{ll} In the light continuity of the light path to a net-zero future o$



Aviation Decarbonisation: Sustainable Aviation Fuel (Text 2)

By C. Wilson (2022)

1. Aviation today plays a key role in the size and	state of
important in keeping people connected across	the world. However, as we continue to travel
more and	as seen in the \$3.5tn of the world's
GDP it represents, global carbon emissions a	s a result of could
200000000000000000000000000000000000000	(Vigeveno, 2021). According to Moyes (2021),
as a return flight from London to San Francisco h	nas
CO2e, coupled with the fact that the number of	passengers travelling by plane is predicted to
reach 8	in aviation
as the overall aim of net zero by 2050 (Departn	nent for Transport, 2021) must be achieved if
we are to	aviation.
2. One of the most effective	sustainable aviation
fuel (SAF). According to the Department for Tra	nsport (2021), advocates for SAF believe it to
be the	represent
accountable for over 60% of UK aviation emissi	ons. Furthermore, Moyes (2021) reports that
, cı	ustomers are beginning to not only recognise
the benefits of SAF in terms of emission reduct	ions,
paying extra for flights which use it. As roughly	200 corporations represent 16% of global air
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	as the Low-Carbon Fuel Standard, whereby
tradable credits are awarded to the fuel supplie	rs,
2021),	encouraged to commit to funding SAF, the
less costly flights will be long-term. To achieve	this,
>00000000000000000000000000000000000000	increase the production and supply of SAF
through more financial incentives and funding.	This
100000000000000000000000000000000000000	and creates economic prosperity, thanks to
the annual £700m to £1.6bn in Gross Value Add	ded (, 2021).
3. SAF, also known as bio-jet, is a low carb	
sustainable include include	municipal household
and business waste such as packaging, paper a	-
	containing lipid oils, and halophytes such as
algae (Moyes, 2021; CPP, 2021). As SAF is sim	
	without any major modifications, making it
safe 'drop in' option for all types of aircraft, whi	
its	an aircraft's hourly fuel burn, but also leads
to a 70% fall in carbon dioxide emissions an	
2024 CDD 2024)	Transport,
2021; CPP, 2021).	
4.81	11 0 40% 5 11
4. Nevertheless, as SAF currently constitutes le	
used every year, its	reach eight times higher
(Vigeveno, 2021). <u>This</u> is largely due to the low	
as	, which
small quantities due to limited demand and	



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to that of traditional jet fuel (Moyes, 2021).	There	is also			how
100000000000000000000000000000000000000	SAF ha	ave acc	used them o	of greenwas	shing,
that is to say, misleading the public into thinking	XXXXXXXX				the
000000000000000000000000000000000000000	to make	SAF, su	uch as sugarc	ane and pal	m oil,
cause damaging consequences such as deforesta	ation,				
(, 2021).					
5. Therefore, although SAF is not completely fr	ee of ca	arbon e	missions,	0000000000	XXXXX
fewer	XXXXXX	that ind	creasing prod	duction of S	SAF a
viable option. Vigeveno (2021) argues for the	introdu	uction o	of 'blending i	mandates' v	which
amount	0000000	000000	00000000000	jet	t fuel,
whereas Moyes (2021) claims that more research sustainable	ch, deve		nt and market governments	•	
investment from stakeholders in technologies to	which	proces	s feedstocks	more effic	-
in emissions.					
Reference list					
(CPP), (2021).	XXXXXXXX	0000000	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		line].
Available at:					

Vigeveno, H., (2021). *Aviation's flight path to a net-zero future* [online]. Available at: https://www.weforum.org/agenda/2021/09/aviation-flight-path-to-net-zero-future [Viewed 28.06.2022].



Comprehension Questions

1. Headings: Choose a subheading for each paragraph. One title is not needed.

1	C (example)	Α	The	sustainable aviation fuel (SAF)			
2		В	The ethics of sustainable aviation fuel (SAF)				
3		С	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
4		D	The way ahead for sustainable aviation fuel (SAF)				
5		E	The	sustainable aviation fuel (SAF)			
		F	The source of sustainable aviation fuel (SAF)				

___/4

2.	True /	False /	/ Not Gi	ven: One	question	per	paragraph.
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		T/F/NG
Para	graph 1	
0.	In the next three decades, global carbon emissions could increase by 3%. (could increase by another 20% in the next 30 years).	F (example)
Para	graph 1	
i.	8 billion people will century.	
Para	graph 2	
ii.	Some consumers use SAF.	
Para	graph 3	
iii.	Some own SAF and fuel.	
Para	graph 4	
iv.	The price of SAF has an jet fuel.	
Para	graph 5	
v.	SAF is a good as it is carbon free.	
	1	

___/5

3. Reference Words: What do these words connect to? (<u>underlined</u> in the text).

Paragraph	Word	Connection
1	It	Aviation (example).
1	It	
2	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
2	This	
3	0000000000	
3	It	
4	This	
4	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
5	Which	

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4. Open Answer Questions: One question per paragraph.

Par	agraph 1							
i.	What TWO targets must be achieved to reduce the environmental impact from aviation?							
	1. 78% reduction in emissions by 2035 (
Par	agraph 2							
ii.	What TWO things can be done to	000000000000000000000000000000000000000	000000	of SAF?				
	1.		2.					
Par	agraph 3							
iii.	What are TWO of the	0000000000	0000000	fuel?				
	1.		2.					
Par	agraph 4		•					
iv.	Why might SAF	environme	ntally fr	riendly?				
			-					
Par	agraph 5							
v.	What would Vigeveno (2021) like to	>0000000000	>>>>>	?				

___/7

5. Citations: Match the author/organisation with the point they make about SAF.

	Reference		Point			
i.	Moyes (2021) (example)	a.	Companies up to certain schemes.			
ii.	Vigeveno (2021)	b.	An SAF job opportunities.			
iii.	Dept. for transport (2021)	C.	Supporters of SAF could be misleading the public.			
iv.	CPP (2021)	d.	Separate storage tanks will be needed at airports.			

i.	d (example)	ii.	iii.	iv	

6. Key language: Search for the word in the paragraph that means:

Paragraph	Explanation		Word
1	The act of sending out gas.		Emissions (example)
1	Increasing in quantity by one addition after another.		
2	То	cause.	
2	A thing that encourages a person		
3	Based	or believed.	
3	A change to something.		
4	Behaviour that makes the general population think that it		
	is doing	it really is.	
4	A situation in which something is in short supply.		
5	This	intended.	
5	Using new methods or ideas.		

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Overall Total: ____ / 36





Comprehension Questions ANSWERS

1. Headings: Choose a subheading for each paragraph. One title is not needed.

1	C (example)	Α	The constraints of sustainable aviation fuel (SAF)	
2	E	В	The	aviation fuel (SAF)
3	F	С	The costs of travelling by plane	

ALL ANSWERS INCLUDED IN PAID VERSION...

