

Wind Energy



SPSE Reading Lesson

EXAMPLE

Task: Read the text on Wind Energy and fill in the outline plan. Identify the background, key problems, possible solutions and evaluation.





Teacher's Notes Reading Text - SPSE

Time: 1hour
Level: *****[/B2/C1]

Lesson Plan

Aim: to develop the students' ability to read one academic text and highlight key points connected to background, problems, solutions and evaluation.

1. Lead in

- What is wind energy? Brainstorm ideas and associated vocabulary.
- Key vocab: wind farm, on-shore / off-shore, wind turbine, blades, generate electricity, sustainable energy, renewable energy (renewables), solar power, tidal energy, biomass, biogas, fossil fuelled power plants.

2. SPSE Revision

- Remind students about what is a SPSE essay.
- Go here: https://www.academic-englishuk.com/spse (Models / Language).

3. Reading

Give out blank outline and reading text. Set 45 minutes for the students to read the text and fill in the outline with the background, problems, solutions, evaluation.

4. Feedback

Feedback as a group or give out model outline answer sheet.

5. Extra

Students Internet research a sustainable energy (tidal, solar, biomass, biogas, etc..), create a SPSE plan and then write an essay.

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UK Wind energy

(Renewable UK, 2015). Wind power is the largest renewable ource of energy in the UK followed closely by Solar power and the Government is investing heavily no renewables to reduce its reliance on fossil fuels and This essay will discuss two main problems of associated with eliability, offer possible solutions and finally evaluate their effectiveness. According to Wilson (2016), the main problem associated with wind power is that it cannot produce a constant supply of energy. Obviously, it is reliant on a fluctuated source of power. The main consequence of this, is that the imbalance fails to meet the constant electricity energy needs of UK consumers, which in turn gives rise to backing up the supply grid through the use of fossil fueled power plants. This over-reliance on back-up systems leads to a further Germany is the world leader in sustainable energy development but this process has raised electricity bills for the consumer and it is arguable how eco-friendly their sustainable energy program is (Peterson, 2014). Wany critics are now warning that countries should invest more in fossil fuel and nuclear power stations to compensate this disparity. However, Being overly-reliant on one or two renewable sources is a grave mistake, evidence evems to suggest that using a variety would enhance energy efficiency. The main examples given by ohnson et al (2015), , , these work on the same principle as conventional fossil fuel power stations and can activated when there is a fall in supply from wind and solar. Another possible solution, unlike Germany, , which is a consistent source of energy.
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To a certain extent these solutions seem plausible in the compensation of fluctuating energy output rom wind turbines and both release a minimum amount of CO2 compared to fossil fuel. However, (Wilson, 2016) and this would
need to be developed and accepted through public consultation and Government Policy, which could ake years.
nitial costs to implement such projects would need significant investment (Johnson et al, 2015) and
nore (Renewable UK, 2015).
(nenewable of, 2013).

References

Johnson et al. (2015) Biofuel is a viable alternative. [online] Available at: http://www.renewable-energy.gov.uk [Accessed 10 October 2015].

Peterson, R, J. (2014) How countries are implementing eco-energy projects. *The New Scientist*. 78 (4). Renewable UK. (2015) Renewable Energy for future generations. *Science* 5 (3). Pp223-256 Wilson, C. (2014) Sustainable energy is not the solution. *Nature*. 78 (2). Pp23-56





SPSE Outline

Situation		
Problems		Development
Solutions		Development
Evaluation	Positives	Negatives
Conclusion		



SPSE Outline ANSWERS

Situation			
Wind power - nearly turbines = energy. (Renewable UK, 2015)			
Gov. directive / EU Renewables Directive 2009.			
Essay outline.			
Problems			
Problem 1	<u>Development</u>		
supply of energy. (Wilson, 2016)	Weather – fluctuation – – back up system – fossil fuel power stations.		
Problem 2	<u>Development</u>		
Sporadic use of fossil fuel power stations.	Inefficient & expensive costs.		
	Ex. Germany.		
	Q. Is it Eco-friendly? (Peterson, 2014)		
Solutions			
Solution 1	Development		
A variety of sources. (Johnson et al.	Biofuel – . (Johnson et al. 2015)		
2015)	<u>Development</u>		
Solution 2	Consistent source of energy. (Peterson, 2014)		
energy. (Peterson, 2014)			
Evaluation	Negatives		
Positives	No . (Wilson, 2016)		
Solution 1	Public consultation.		
& less CO2.	Gov. Policy.		
Solution 2	Years.		
& constant (Johnson et al. 2015)	Initial costs / significant investment.		
	More research. (Renewable UK, 2015)		
Conclusion			
Solutions have limitations BUT .			



SPSE Language Phrases

Key phrases for writing an SPSE essay

Situation

Follows the conventions of an introduction

(general > specific > definition > situation >outline)

Outline: This essay will discuss two problems, propose possible solutions and evaluate the effectiveness of these solutions.

Problems

<u>Adjective</u>: central / main / major / common / immediate / serious / significant.

Verbs: associate / raise / consider / discuss / address / resolve / discuss.

- The most significant problem is...
- ... poses / presents an immediate problem because...
- Another possible issue is ...

Cause & effect language

Leads to / results in / gives rise to / as a consequence / owing to / because of / as a result.

Cause and effect phrases

This suggests / ... Is linked to / associated with / connected to / ...may be affected by...

Solution

<u>Adjective</u>: long-term / short-term / proposed / effective / comprehensive / possible / practical / feasible / cost-effective / workable / realistic.

<u>Verbs</u>: propose / put forward / suggest / adopt / provide.

- One possible solution would be to.... / One way of solving the problem is...
- One practical approach could be to...

Evaluation [Show both positive effects and negatives]

- Implementation of these solutions would ... However, ...
- Although these solutions provide..., there are a number of limitations. The first one is...
- Overall, these solutions offer a range of ..., but it needs to be highlighted that...

Conclusion [Make a decision]

In conclusion / to sum up / to conclude.

If clause: if these solutions are implemented, then this would ...

