

Future Energy Resources

Assessed Task: Criteria D (Reflecting on the influences of science)

Due date: Friday, 17 April

Word Count: 800-1200

Complete the assignment in Google Docs and share the document with Mr. S on Google classroom.

Task:

We currently rely on fossil fuels for our energy. However, they will run out and combusting fossil fuels releases carbon dioxide into our atmosphere which may be linked with climate change.

1. Research “solar-based” alternative energy resources that could be used in the future and select **one for the focus of your essay.**
2. **Explain** how this energy resource could be a solution to provide humans with energy in the future. Make sure you provide a clear description of how the technology works, what conditions are necessary for it to be used successfully, and how solar energy is involved in the energy source.
3. **Identify** and **Discuss** two benefits of this energy source
4. **Identify** and **Discuss** two limitations of this energy source
5. Summarize your research and **evaluate** the effectiveness of the energy source

Definitions:

Identify: Recognize and state briefly a distinguishing fact or feature

Explain: give a reason or justification

Discuss: give accounts from two or more different perspectives

Evaluate: assess what limits the technology from being a good solution and suggest ways that we could improve the technology to make it a better solution

Tips:

- **Use data and statistics to support your arguments wherever possible**
(This is KEY to achieving the highest mark)
- Include an MLA bibliography with the title, URL and date of publication for each source.
- **Any plagiarism will result in a level of 0**
- **All photos and diagrams must include an attribution directly beneath the graphic.**

Essay Organizational Template

For what purposes is this alternative energy source used? Where in the world is it used? If used to generate electricity, how much electricity is generated using this energy source? Has usage of this energy source increased or decreased over time?

What conditions are necessary for the successful use of this energy source? Give a scientific explanation as to how your energy source is “solar based”. How does technology allow the energy source to be converted into useful energy that humans can use? Be certain to explain clearly “How does it work?”

Identify 3-4 **benefits** of this energy source?

- 1.
- 2.
- 3.
- 4.

Identify 3-4 **limitations** of this energy source?

- 1.
- 2.
- 3.
- 4.

Discuss a **benefit** in detail and give specific information and/or examples.

Discuss another **benefit** in detail and give specific information and/or examples.

Discuss a **limitation** in detail and give specific information and/or examples.

Discuss another **limitation** in detail and give specific information and/or examples.

Conclusion: **Evaluate** the balance of benefits and limitations? How is the technology expected to develop in the future? What do you think about the future use of this energy source?

References: (These will need to be put into MLA format in your essay)