



### Important information from Auckland University of Technology (AUT)

Feedback provided by the Studiosity service will help you to improve your academic writing skills by indicating areas for improvement related to structure, writing style, language use, spelling and grammar.

This service **DOES NOT** assess the quality of your response to the assessment task and how this meets the assessment criteria and therefore any feedback received here **DOES NOT** provide any indication of your FINAL mark / grade - this can only be determined by your teacher / course convenor.

Your writing submission and feedback are available to, and may be shared with Auckland University of Technology (AUT) for the purpose of quality control of the Studiosity service, and to ensure you are aware of additional support that can meet your specific learning needs.




Contact Auckland University of Technology (AUT) for further information

File: Assignment\_1\_Nuclear\_Power.docx

Provide specialists with additional information for the review: This is writing a argumentative essay.

Word count: 657

Assessment task: Essay

Feedback areas:  Structure  
 Choice of language  
 Spelling

State of document: It's my first draft

Submission ID: 0f1b8983-07e8-4b45-818b-0ac7767e6cc7

# Assignment\_1\_Nuclear\_Power.docx



CAROLE reviewed your submission.

## General

Hi, thank you for using Studiosity to review your work. It is evident that you have spent both time and effort on completing this assignment.

Overall, the tone of your language is suitable throughout. Points for improvement include the use of commas.

I have taken note of the areas of concern and I have addressed each in turn below. I have also highlighted some examples in the text.

I have noted that this is the first draft.

## Structure

You begin by focusing on the subject matter and you should then offer a thesis followed by a premise. An essay introduction should begin with an opening statement that provides context and leads to the thesis. This may provide background information or context which will help with the overall essay focus.

Your thesis is your argument and it should be one clear sentence that responds to the question. It should be concise and focused solely on the argument you intend to support. Thesis statements often begin with – this essay will argue that ...

Following the thesis you should have a premise. This helps the reader understand the outline of your work. It provides an overview.

You make use of topic sentences to introduce the main points and finally you reach a conclusion. This contributes to the overall structure of the writing. It also enables the reader to understand the intention.

## Choice of language

Your tone is formal and suitable for this style of writing, which means that it is relatively easy for your reader to understand what you are trying to communicate. You have included an array of technical terms throughout, which adds an academic air to your writing. Your sentences are of an appropriate length, although at times ..

## Spelling / Grammar

Spelling is not an issue in this writing. Grammatical improvements include the use of articles. I have highlighted a few problems with your use of determiners and articles.



## Focus areas

- 3 ● Structure
- 0 ● Choice of language

## Other areas

- 5 ● Spelling / Grammar
- 1 ● Referencing

Determiners are words placed in front of a noun to make it clear what the noun refers to. The word "the" is one of the most common words in English. It is our only definite article. Nouns in English are preceded by the definite article when the speaker believes that the listener already knows what he is referring to. The speaker may believe this for many different reasons, some of which are listed below..

In English, the two indefinite articles are a and an. Like other articles, indefinite articles are invariable. You use one or the other, depending on the first letter of the word following the article, for pronunciation reasons. Use a when the next word starts with a consonant, or before words starting in u and eu . Use an when the next word starts with a vowel (a,e,i,o,u) or with a mute h.

I have commented on times when you use a comma, but you should have used either a semi colon or a full stop. A comma splice is a punctuation error that occurs when two independent clauses have been joined by a comma instead of being separated by a full stop. The easiest way to test for this is to read each part of the sentence by itself. If it is a complete sentence by itself, there should be a full stop instead of a comma.

For example: The researchers

spent weeks reviewing the survey results, they were surprised at what they found. This sentence contains a comma splice. The first part of the sentence is a complete sentence by itself, and so is the second part. Because of this, the comma should actually be a full stop or a semicolon. Make sure that you check your work carefully for more instances of this error.

If you're unsure about how to use semicolons, it's best for you to just use a full stop.

I have highlighted a few examples where you misuse or under use commas. A comma marks a slight break between different parts of a sentence. Used properly, commas make the meaning of sentences clear by grouping and separating words, phrases, and clauses. Here are the main cases when you need to use a comma:

1. in lists
2. in direct speech
3. to separate clauses
4. to mark off certain parts of a sentence
5. with 'however'

You should not use a comma to join independent clauses together, but should use a semi colon or conjunction instead.

## Referencing

I have not noticed any consistent errors in your referencing. As you know, it's always good to meticulously double check your referencing before handing in, referring to the guide issued by your institution.

Did you know you can use Writing Feedback in any subject where you're looking for feedback to improve your writing? We look forward to providing you with feedback on your next assignment!

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ⓘ Please note that the specialist has not proofread your work but has highlighted examples of the types of errors you need to look out for. Please review your entire document with these examples in mind before you submit your assignment.

# Why should we use nuclear power?

Nuclear technology was first used in the Second World War as weapons against Imperial Japan, then in the 1950s, was used for producing electricity and still being used today. However, there is widespread popular support for using renewable energy, particularly solar and wind. Though environmentalists have safety and nuclear waste concerns, nuclear power is very safe and clean form of electricity production. [This is a comma splice error. Use a semicolon, a coordinating conjunction after the comma, or end the sentence here and start a new sentence.] [Remember to use articles (a/an/the) before singular nouns.] [An introduction should contain an outline of your premises (main points) that you intend to cover in your body paragraphs. Please refer to notes in the Feedback Summary for more information.] [Your introduction should contain a clear thesis that states your argument. Please refer to notes in the Feedback Summary.]

There have been only three major nuclear accidents in the history of nuclear power. Despite this, there have been minimal deaths resulting from nuclear power. According to (Markandya & Wilkinson, 2007), nuclear caused only 0.003 deaths per Tera Watt hours (TWh) from accidents. Compared to coal power, which resulted in 0.02 deaths per TWh, six times more than nuclear. Also, there will be no expected increase in cancer rates from the Fukushima Daiichi accident, according to a World Health Organization report (Osseiran, 2013). However, coal-burning plays a significant role in contributing to air pollution. Coal caused 24.5 deaths by air pollution per TWh, compared to nuclear, which caused 0.052 deaths, 462 times less (Markandya & Wilkinson, 2007). Strict safety standards help keep the number of accidents very low. Therefore, nuclear power is considered very safe in the number of accidents and health risks. [A comma should be used to show introductory words, phrases and clauses in a sentence.]

All electricity generating sources need land to produce electricity. Nuclear power uses minimal area compared to solar or wind farms for the same power output. A research paper by (Brook & Bradshaw, 2015) said that wind farms use 460 times more land than nuclear in square kilometres, and solar farms use 57 times more land. Furthermore, a report by (Landon Stevens, 2017) found out a nuclear plant uses 1,100 acres of land to produce 1,800 megawatts per hour, while for solar and wind farms, they require 13,320 acres and 108,000 acres of land respectively to provide the same output power as nuclear. Finally, the reason for this massive land requirement for solar and wind is because they are diffuse energy. Diffuse energy means that it spreads out rather than concentrated in one area. Also, solar and wind are intermittent sources; they depend on the weather conditions, daylight and seasons for electricity generation. Therefore, nuclear power has little environmental impact with massive electricity production. [A comma should be used to separate interrupting words/phrases/clauses from the rest of the sentence.]

Contrary to popular belief, nuclear waste is not as dangerous as environmentalists claim it to be. First, nuclear plants generate vast amounts of electricity with a tiny amount of fuel. Small amounts of fuel means little waste is produced (Radioactive Waste Management, 2020). Secondly, radioactivity from the waste diminishes over time. After 40 years, the waste radioactivity will have decreased to about one-thousandth of the original time (Radioactive Waste - Myths and Realities, 2020). Lastly, nuclear waste can be recycled to reuse in reactors for another hundreds of years. Also, radioactivity from reprocessed waste will fall off more rapidly than unprocessed ones (Processing of Used Nuclear Fuel, 2018). Therefore, nuclear waste is easy to manage and to dispose of. [A comma should be used to show introductory words, phrases and clauses in a sentence.]

In conclusion, nuclear power should be used to replace fossil fuels due to its safety, environmental impact and nuclear waste management. [This contributes to the overall structure.] However, public opinion on nuclear power needs to be more positive so that countries can adopt more nuclear power plants.

## References

Brook, B. W., & Bradshaw, C. J. A. (2015). Key role for nuclear energy in global biodiversity conservation. *Conservation Biology*, 29(3), 702-712. <https://doi.org/10.1111/cobi.12433>

Landon Stevens, B. A., Colton Cowan, Katie Colton, Dallin Johnson. (2017). *THE FOOTPRINT OF ENERGY: LAND USE OF U.S. ELECTRICITY PRODUCTION*. Strata. <https://www.strata.org/pdf/2017/footprints-full.pdf>

Markandya, A., & Wilkinson, P. (2007). Electricity generation and health. *The lancet*, 370(9591), 979-990.

Osseiran, N. (2013). *Global report on Fukushima nuclear accident details health risks*. World Health Organization. Retrieved 11 March from <https://www.who.int/news-room/detail/28-02-2013-global-report-on-fukushima-nuclear-accident-details-health-risks> **[As you know, it's always good to meticulously double check your referencing before handing in, referring to the guide issued by your institution.]**

*Processing of Used Nuclear Fuel*. (2018). World Nuclear Association. Retrieved March 17 from <https://www.world-nuclear.org/information-library/nuclear-fuel-cycle/fuel-recycling/processing-of-used-nuclear-fuel.aspx>

*Radioactive Waste - Myths and Realities*. (2020). World Nuclear Association. Retrieved March 17 from <https://www.world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-wastes/radioactive-wastes-myths-and-realities.aspx>

*Radioactive Waste Management*. (2020). World Nuclear Association. Retrieved March 17 from <https://www.world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-wastes/radioactive-waste-management.aspx>