

Group Name (12 PT Arial)

Student Names and Numbers

# Introduction

The assignment must be written in good English. In the ‘Tools’ option of the menu bar of MS Word, set the language to ‘English UK’. Do spelling and grammar checks with MS Word as a first guideline. Preferably use present (is/are) and past (was/were) tenses, and avoid present perfect (has/have been) and past perfect (had been) if at all possible. Exceptions are, for example: “much has been published on the subject matter”. In the article the future (will) tense is usually also necessary.

The formatting must be as per this document:

* Avoid landscape page orientation if at all possible.
* **All text** must be Arial, with **11pt** for. Only **main title** of article which is Arial **12 pt.** Titles, headings, and captions, must be in bold as shown.

**The line spacing must be single** throughout the document, **No header** or **footer** must be used in the article document. Include page numbers though at the bottom-right.

**The length of the assignment document should be around 2000 words and not exceed 10 pages. Appendices (if used) can be additional, but not more than 5 pages.**

## Fonts

The **point size** of all text in the research article is **Arial 11.**

### Figures and tables

Use figures and tables conservatively and only if necessary as they may use too much space. However, in some cases figures or tables could replace unnecessary text. See examples at the end of this document. **The text in graphs must be clear with the correct formatting (beware of super- and sub-scripts).**

### Heading levels

A maximum of three levels may be used.

The length of section 1 should be around 500 words, and clearly provide an overview of the background, and the problem to be addressed.

## Design specifications

Clearly state your interpretation of the cabin requirements at the end of the introductory section.

# Cabin location and design

Introduce your chosen location. Describe the context and your assumptions. Utilise a map that clearly shows the GPS coordinates, as well as a sketch of the cabin design and orientation.

# Solar resource analysis

Discuss your analysis using SolarView, for the summer and winter solstice, as well as the equinox. Graphs should be included.

# Cabin power and energy load characterisation

Clearly state your assumptions in terms of the electricity loads for a typical weekday, and over a weekend.

# Specification of the suggested solar PV/battery system

Introduce your design, as well as the associated costs.

## Modelling of the system

Undertake an uncertainty and cost analysis.

## Discussion

Compare the outcomes, and reflect on the affordability of the system.

# Conclusions and recommendations

Conclusion/reflection on the practically, and sustainability, of the designed cabin.

Appendices

Only include these if absolutely necessary.

**Abbreviations and acronyms**

Figures must go in front of the captions. The formatting must preferably be Arial, bold, 10pt, single line spacing

**At the very least the text must be readable, and avoid colouring if possible – grey shading is acceptable**

**Figures should not be a repeat of the written text, i.e. they must provide information in a new way that is difficult to describe otherwise**

**Figure 1. Clear, concise captions must go at the bottom of figures**

(Source: If applicable)

**Table 1. Clear, concise captions must go at the top of tables**

|  |  |
| --- | --- |
| **Headings** | **Arial, 11 pt, bold if possible, centre aligned** |
| **Body text** | Preferably Arial, 10pt, regular or bold and aligned as required |
| **Line spacing** | Single throughout, with 2pt spacing before and after the text |
| Tables must be easily readable and not repeat any of the written text, but must describe new information that would not fit well in the text | |

(Source: If applicable)