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Group Assignment

**CEE1IEE Final Report Assessment Sheet**

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| **Group Name/Student Names: Group 2.** Marina Herrera, Sarah Glaves, Usman Ahmed, Alan Hoyle, Victor Franca, Jamie Burrel  **Supervisor:** |

The following sections are included for your guidance and to help you rank the groups.

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| **Group Writing Skills [0 – 10 marks, to 0.5 mark accuracy]:**  Structure and fitness for purpose.  Clear introduction, easy to read and general flow.  Edited to remove repetitions; adequate coverage of important areas.  Thoroughly checked before submission. | 6 |

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| **Technical and Analytic Content [0 – 20 marks, to 0.5 mark accuracy]:**  Analytic understanding of the problem.  Performance modelling. Technical progress.  Demonstration of working/completed sections. | 12 |

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| **Conclusions, clarity of client recommendations [0 – 10 marks, to 0.5 mark accuracy]:**  How useful is the report to the client  Correctness of the conclusions and implementation plan | 4 |

Total mark allocated [out of 40]: 22

**Please include comments to justify your decision on this page or overleaf.**

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| Overall an interesting report and you have carried out some good research. My biggest criticism is your use of energy/power units and the confusion it causes. Energy production consumption is usually in kwH/day (or if you prefer kwH/year). You have used kW throughout which is an instantaneous rate of energy consumption. So for example, I’m not sure what you mean (or where the figure comes from) of the ‘campsite’s need of 6kW’ when discussing solar panels. Using energy makes analysis of energy storage systems such as batteries easier as they store energy and not power! Putting much of your calculations and assumptions in the appendix has made the report awkward to read. Many of your assumptions about energy usage have been stated without reference. Your choices of power generation (solar, hydro and heat pumps) are appropriate for the application. I was confused by your costings as they are not over a stated period. Annual running costs of an off-grid solution are less than on-grid but off-grid requires a large initial capital. You need to do the costings over a significant period (eg 10 years) to produce useful recommendations to the client. Finally your conclusions are weak and there is nothing about timescales for installation. If I were your client I would need more clarity in your final recommendations. |

Assessor: . .Dr Mike Spann Date: 30/3/15