

Engineering Contexts & Challenges Assessment Task 3

This task is to be completed as homework

Select one of the following topics to complete the assignment.

Aberdeen Bypass	New Forth Road Crossing	Wind Turbines	Wave Energy
Solar panels	Geothermal Energy	Biomass/Biogas	Tidal Energy

The format of this assignment should be an essay style response. One paragraph for each heading should be sufficient.

Present a critical analysis of an engineered solution to a contemporary problem.

- **Clearly describe the nature of the problem**
 - Outline the problem & use examples to highlight the problem.
- **Describe some social and economic impacts of the solution**
 - Describe at least 1 positive & 1 negative impact, and at least 1 social & 1 economic impact. They must be specific to the problem.
- **Describing clearly some environmental impacts of the solution**
 - Describe at least 1 positive & 1 negative environmental impact. Must be specific.
- **Identify & describe emerging technologies which may impact future developments**
 - Describe at least 2 emerging technologies which may be relevant to the specific solution (i.e. new materials, intelligent systems, developments & improvements to existing technologies, developments still at the research stage, etc.)