

The following are general comments about the structure and contents of an academic essay written for university – they are not prescriptive and intended as an educational guide only.

INTEGRATING BUSINESS PERSPECTIVES

Question: Discuss how the issues associated with global warming might be understood as a wicked problem.

The contemporary challenge of carbon pollution and climate change can be understood as a wicked problem entailing commercial implications. A wicked problem, as coined by Rittel and Webber (1973, cited in Head 2008), can be defined as an intractable social concern featuring characteristics of uncertainty, complexity and divergence. Due to the applicability of certain properties, carbon emissions and climate change can be considered a wicked problem, simultaneously presenting commercial issues and opportunities.

Various WP characteristics are prevalent in carbon emissions and climate change. According to Rittel and Webber (1973), specific properties underpin the nature and extent of a wicked problem. Firstly, the multifaceted nature of the issue lends support to its interpretation as a global wicked problem. Consistent with wicked problem characteristics, the issue is unique, difficult to define and involves numerous contested causes and solutions derived from inconclusive causal evidence.

Similarly, this relates to controversy arising from divergent stakeholder perspectives, adhering to the WP characteristic of explaining discrepancies in varied ways (Rittel & Webber 1973). For example, denialist groups reject the notion of climate change and human causality, doubting the potential for viable solutions. In contrast, environmental groups recognise causality, emphasizing the need for

Comment [A1]: Background information provided here. Introduction defines wicked problem as a problem with complex interconnected issues. **Definition** of terminology that will be used throughout the essay. Reference to source of definition.

For advice on **writing an introduction**, go to: <http://www.uts.edu.au/current-students/support/helps/self-help-resources/academic-writing/essay-writing>

Comment [A2]: Explains the **relevance and significance** of the topic. The introduction clearly indicates the business implications of the 'dilemma'.

Comment [A3]: This is an example of 'author-prominent' citation where emphasis is given to the original writer. **Reporting language ('according to')** is used to acknowledge an author's ideas. For help on using reporting verbs, go to: <http://www.uts.edu.au/current-students/support/helps/self-help-resources/grammar/reporting-verbs>

Comment [A4]: Integration of scholarly **evidence**. For help on synthesizing ideas and how to paraphrase, go to: <http://www.uts.edu.au/current-students/support/helps/self-help-resources/academic-writing/paraphrasing>

Comment [A5]: This word helps link this paragraph to the previous one. For more ideas on how to use **linking language** in English, go to: <http://www.uts.edu.au/current-students/support/helps/self-help-resources/grammar/transition-signals>

Comment [A6]: This is an example of 'information-prominent' citation where emphasis is given to the data.

Comment [A7]: **Examples** are used to illustrate the argument that climate change is a complex problem with many related issues and stakeholders.

sustainable solutions. Consequently, multiple stakeholder views permeate the issue, reinforcing the complexity and divergence of climate change as a wicked problem.

In addition, carbon emissions and climate change features uncertainty, relating to WP characteristics of contentious causes and non-definitive solutions (Rittel & Webber 1973). For example, climate change creates public policy challenges regarding choices of resource allocation tools (Head 2008). Consequently, carbon emissions and climate change can be interpreted as an uncertain, complex wicked problem.

As a wicked problem in the dynamic business environment, carbon emissions and climate change pose commercial issues and opportunities. Business issues involve physical and regulatory risks. Physical implications of the wicked problem include environmental pressures such as extreme weather conditions (Stern 2007). In effect, this may pose a detriment to primary industries relying on suitable conditions for efficient resource extraction (Sussman & Freed 2008). For example, severe conditions in the mining industry may hinder productivity, affecting profitability and shareholder value. Consequently, the wicked problem presents increased risks, posing adverse threats for business operations.

In addition, in the Australian business context, the wicked problem poses regulatory issues through the proposed carbon tax. It is projected that this policy tool will increase business costs as liable sectors pass costs down value chains (Garner & Wong 2010). In effect, increased prices may lower consumer demand and reduce consumer purchasing power. Consequently, the wicked problem poses the

Comment [A8]: The phrase **links** this paragraph to the previous one. See also Comment [A6].

Comment [A9]: Concrete **examples** are used to indicate relevance to the argument and to substantiate/support it.

Comment [A10]: Explicit **topic sentence** reflects the overall theme or main idea of the paragraph, making it easier for the reader to comprehend what is to follow. The question requires some reference to business-related issues. To watch a video tutorial on writing body paragraphs go to: <http://www.uts.edu.au/current-students/support/helps/self-help-resources/academic-writing/essay-writing>

Comment [A11]: The writer's voice uses **hedging language** such as "may". This is characteristic of academic writing and convey's the writer's opinion or attitude (modality).

Comment [A12]: Further use of **hedging language**. See comment A11.

Comment [A13]: This word indicates a **cause and effect** relationship and adds cohesion to the text. For more ideas on how to use **linking language** in English, go to: <http://www.uts.edu.au/current-students/support/helps/self-help-resources/grammar/transition-signals>

potential commercial threats of changing consumer attitudes, shareholder uncertainty and decreased profitability (Business in the Community 2007).

Conversely, the wicked problem presents the business opportunities of innovation and sustainability. Due to consumer preferences for sustainability, the WP presents market opportunities for private sector innovation of sustainable products and technologies (Stern 2007). In effect, the wicked problem encourages entities to design carbon efficient products in order to satisfy consumer demand (Forster 2009). For example, companies such as Toyota have gained competitive advantage by responding to the carbon conscious market and developing hybrid vehicles (Rigby & Tager 2008). **As a result**, the wicked problem presents potential for increased market share and profitability through diversification (Garnaut 2011).

Furthermore, the wicked problem presents commercial opportunities for promoting sustainability. Incorporating sustainable practices into business strategy allows greater long-term responsiveness to changes that the wicked problem poses (Camillus 2008). Such initiatives, including the global accounting of carbon emissions, are likely to lead to favourable brand image (Ihlen 2009) and competitive advantage (Porter & Kramer 2006). Businesses may also incorporate sustainability strategies into supply chains through logistics systems, resulting in efficiency gains (Forster 2009). For example, in response to the wicked problem, Westpac Banking Corporation has promoted corporate social responsibility, resulting in positive brand image (Westpac 2012). Consequently, the wicked problem presents commercial opportunities, generating beneficial outcomes.

Comment [A14]: This word indicates that the paragraph mentions ideas/concepts that are in **contrast** with those discussed in the previous one - it acts as a link between paragraphs.

Comment [A15]: This expression indicates a **cause and effect** relationship. It also enhances clarity of the argument.

Comment [A16]: This indicates that **additional information** will be provided to support the overall argument.

In conclusion, as a wicked problem with distinctive constituent features, the current carbon emissions and climate change debate poses issues and opportunities for business practice in the dynamic business environment.

Comment [A17]: Short concluding sentence strengthens the overall answer. The conclusion should summarise **the essay's key points**. No new points or evidence should be introduced here. To watch a video tutorial on writing a conclusion go to:
<http://www.uts.edu.au/current-students/support/helps/self-help-resources/academic-writing/essay-writing>

Reference

List

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Comment [A18]: Conforms to [Harvard-UTS Referencing](http://www.lib.uts.edu.au/sites/default/files/attachments/page/UTS_Interactive%20Harvard%20Guide.pdf) conventions. For a guide to this style of referencing go to: http://www.lib.uts.edu.au/sites/default/files/attachments/page/UTS_Interactive%20Harvard%20Guide.pdf

Always check with your course/subject co-ordinator, lecturer or tutor exactly which referencing system you should use.



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