

Scott response to NFCRC Tentative Findings

The Energy Future

Tentative findings numbers 1 to 9 are listed under this heading. It is noteworthy that each and every one of them relates in some way to global climate and temperatures. All 9 refer to or relate in some way to carbon emissions from the energy sector.

This section of the report will be lacking if it does not include some findings regarding heat emissions from the energy generation sector.

Finding number 5 should include 'energy storage' as one of the other measures necessary to significantly transform Australia's energy sector.

For completeness, there is a need for this section of the report to include some findings relating to 'sustainability' at state, national, regional and global levels.

Exploration, Extraction and Milling

Tentative findings numbers 10 to 22 are listed under this heading.

The findings are grouped under the following three questions:

- What are the risks?
- Are the activities feasible?
- In what circumstances are the activities viable?

Value would be added if the final report included some findings here under a fourth question:

- What are the sustainability attributes of the activity?

Further Processing and Manufacture

Tentative findings numbers 23 to 37 are listed under this heading.

Here again findings are grouped under three questions:

- What are the risks?
- Are the activities feasible?
- In what circumstances are the activities viable?

Value would be added if the final report included findings here under a fourth question:

- What are the sustainability attributes of the activity?

Electricity Generation

Tentative findings numbers 38 to 61 are listed under this heading.

Here again findings are grouped under three questions:

- What are the risks?
- Are the activities feasible?
- In what circumstances are the activities viable?

Value would be added if the final report included findings here under a fourth question:

- What are the sustainability attributes of the electricity generation activity?

Finding number 47 which lists key characteristics of the National Electricity Market should note that it lacks 'energy storage' facilities.

Finding number 49 which lists key characteristics of the South Australian region of the NEM should note that it lacks 'energy storage' facilities.

There should be a following finding that this lack of energy storage facilities is a major system deficiency and it adversely affects potential for more efficient utilisation of all of the options for electricity generation – from renewables and fossil fuelled and nuclear fuelled technologies.

Finding number 57 which nominates design requirements for a future national electricity supply system, should include design for low thermal emissions in accord with the global aim to restrain temperature rises.

This section would be significantly enhanced in value if it included a suite of findings going into the significant impact on energy systems options and efficiency which would arise from establishment of energy storage in the form of Pumped Storage Hydropower facilities.

Management, storage and disposal of waste

Tentative findings numbers 62 to 102 are listed under this heading and several sub headings.

Here again the practice has been to group findings under three questions:

- What are the risks?
- Are the activities feasible?
- In what circumstances are the activities viable?

Value would be added if the final report included within each subheading, findings under a fourth question:

- What are the sustainability attributes of the activity?

Social and community consent

Tentative findings numbers 103 to 111 are listed under this heading.

Value and credibility would be added to the final report if this section included some findings addressing the need to proceed in pursuit of sustainability.

Land, heritage and respecting rights

Tentative findings numbers 112 to 115 are listed under this heading.

Value and credibility would be added to the final report if this section also included some findings addressing the need to proceed in pursuit of sustainability.

Risks and challenges

Tentative findings numbers 116 to 155 are listed under this heading.

Value and credibility would be added to the final report if this section also included some findings addressing the need to proceed in pursuit of sustainability.

An alternative would be to introduce into the final report a chapter devoted to a comprehensive holistic treatment of sustainability, including findings having local, regional, national and global perspectives of the Nuclear fuel cycle and alternative Renewable approaches to our Energy future.