

**Senate Standing Committee on Economics**

**ANSWERS TO QUESTIONS ON NOTICE**

Resources, Energy and Tourism Portfolio

Additional Budget Senate Estimates

23 February 2011

**Question:** AR11  
**Topic:** Worley Parsons study  
**Proof Hansard Page:** E88-E89

**Senator Ludlam asked:**

**Senator LUDLAM**—Finally, this is a question that I also put to your Environment colleagues. The gas industry says that using natural gas is four to nine tonnes better than using coal. They rest their entire case on a Worley Parsons study in 2008 which was conducted for, I believe, Woodside—and nobody has seen it. All right, that is not true; the Environment bureaucrats have seen it but it has not been put into the public domain. Has the department got it and could you table it for us?

**Mr Clarke**—We do have it. Whether there is any reason why it is not on public record I would have to take on notice.

**Senator LUDLAM**—If you could take that on notice—firstly, whether the department agrees with the contentions in that study; and, secondly, whether that could finally be put into the public domain.

**Mr Clarke**—Senator, in taking that on notice can I frame the response. You are asking whether we think that that range of four to nine tonnes—and we understand that this is about Australian LNG displacing coal in a Chinese power station—

**Senator LUDLAM**—That is the model, yes.

**Mr Clarke**—That is the range. So you are asking whether we think that range is realistic and whether we can—

**Senator LUDLAM**—Substantiate it.

**Mr Clarke**—Can we substantiate it and publish it? I am happy to take that on notice.

**CHAIR**—I thank the resources and energy officials for their assistance. We will move to Geoscience Australia.

**Answer:**

The document referred to is a 2008 report prepared by Worley Parsons for Woodside Energy Limited entitled *Greenhouse Gas Emissions Study of Australian LNG*. The Woodside website references this report and states that the impact of displacing coal with LNG for power generation in China is to save between 5.5 and 9.5 tonnes of carbon dioxide (CO<sub>2</sub>) emissions per tonne of CO<sub>2</sub> emission incurred in Australian LNG production.

Further information is available via the following link:

[www.woodside.com.au/Sustainable+Development/Climate+Change/Benefits+of+LNG.htm](http://www.woodside.com.au/Sustainable+Development/Climate+Change/Benefits+of+LNG.htm)

Questions regarding the report including the estimates contained therein should be directed to Woodside.

The Worley Parson report is consistent with the Department's own analysis of the CO<sub>2</sub> displacement range.