

## Howard, Jeff (DEEP)

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**From:** Gary Bent <gdbent@earthlink.net>  
**Sent:** Saturday, September 26, 2015 5:29 PM  
**To:** DEEP ClimateChange  
**Subject:** comment 3 on ADM meeting  
**Attachments:** switch to WWS.docx

One of the questions the guy from NESCAUM asked if natural gas expansion is a plan people want to follow. I am attaching a Figure 2 from N.P. Myrhold and K. Caldeira, "Greenhouse gases, climate change and the transition from coal to low-carbon electricity," *Environmental Research Letters* **7**, 014019 (2012). it shows the benefit of switching as rapidly as possible to renewable energy. Natural gas as a "bridge" fuel delays decreases in temperature change.

I also ask that everyone on the working group examine the paper by M.Z. Jacobson et al., "100% clean and renewable wind, solar, and sunlight (WWS) all-sector energy roadmaps for the 50 United States," *Energy and Environmental Science* **8**, 2093 (2015). It shows the mortalities from respiratory diseases and their associated costs that can be avoided by switching to WWS. It also shows the changes in jobs that would result from such a change.

Cordially,  
Gary Bent