

Howard, Jeff (DEEP)

From: Gary Bent <gdbent@earthlink.net>
Sent: Thursday, October 01, 2015 10:21 PM
To: DEEP ClimateChange
Subject: comment 4 on GC3 meeting
Attachments: switch to WWS.docx

In the comments, someone made the point that the quicker the change to renewable energy, the less it costs to achieve a certain reduction in emissions. I am attaching 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 council 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.

Sincerely,
Gary Bent