

To: ES TWG members

From: Bill and Franz

Date: 28 June 2007

RE: Data requirements for the construction of a bottom-up GHG forecast for the electric supply sector in MN

Dear Colleagues,

As per our discussions at the last Energy Supply (ES) TWG meeting held on 11 June 2007, please find below a list of data requirements that would be needed to revise the existing, top-down, GHG forecast and develop a bottom-up forecast. Please review these data requirements relative to availability and access within the time of our TWG process.

Underlying data framework

The overall framework for preparing a bottom-up GHG forecast in the context of the recent legislation is as follows:

- Base year of 2005; end year of 2025;
- Detailed characterization of MN electric power sector expansion, based on most recent regulatory information available;
- Detailed characterization of electric power sector expansion of the utility systems located outside MN from which power is imported into MN, based on most recent regulatory information available

Specific data requirements

Below is a preliminary list of data requirements needed to undertake a bottom-up GHG forecast. It will be important to a) get a good sense of the ability of TWG members to provide CCS with this information (or refer us to where it can be expeditiously obtained) and b) expand the list to include additional information critical to the development of the forecast

- Capacity additions within MN border by plant/fuel type over the 20-year planning horizon;
- Capacity additions beyond MN borders by plant/fuel type from utility systems that are contracted to supply power to MN over the 20-year planning horizon;
- Capacity beyond MN borders by plant/fuel type from utility systems that are contracted to supply power to MN over the 20-year planning horizon;
- Capacity retirements within MN border by plant/fuel type over the 20-year planning horizon;
- Capacity retirements beyond MN borders by plant/fuel type from utility systems that have been contracted to supply power to MN over the 20-year planning horizon;
- Cost and performance characteristics of capacity additions proposed within MN border by plant/fuel type;
- Cost and performance characteristics of capacity additions proposed beyond MN border by plant/fuel type;