

Appendix A. Analysis Request Letter

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United States Senate

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October 22, 2007

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The Honorable Guy F. Caruso
Administrator
Energy Information Administration
Forrestal Building
1000 Independence Avenue, S.W.
Washington, DC 20585

Dear Mr. Caruso:

The Energy Information Administration (EIA) has often provided the Congress with important analyses of future energy policy options. Increasing concern about energy security, trade deficits, economic growth, air quality and climate change will engage us for many years, and these reviews make key contributions to the course of policy debate.

I am writing to request that you conduct a quantitative analysis of the pollutant emissions reductions (including greenhouse gases) and oil savings that would result from commercializing advanced hydrogen and fuel cell technologies, both in transportation and distributed electricity generation. Several different sizes of a hydrogen economy have been evaluated since 2004's landmark study done by the National Academy of Sciences, including work from the Department of Energy's (DOE's) Energy Efficiency and Renewable Energy program, the International Energy Agency, the European Commission and several National Laboratories. They have shown that a wide range of energy alternatives will be needed to fully ensure a steadily cleaner and more efficient energy economy.

Substantial industry, federal, and state investment in research, development and demonstration has moved our technical knowledge forward since 2004 -- a succinct systems examination of the emissions, energy efficiency and oil savings benefits of a hydrogen economy, however, has yet to be done. When Congress passed the Energy Policy Act of 2005, we intended to accelerate the development of technology toward commercialization, and gave the Secretary of Energy more authority and resources to accelerate this initiative. Title VII, *Vehicles and Fuels*, and Title VIII, *Hydrogen*, clearly set goals and methods for how federal resources need to be focused, in partnership with industry. The potential for dramatic improvement in emissions, efficiency and oil use is very real. The stakes are high, and better analysis can usefully guide our oversight and funding of these programs.

I request that the EIA undertake a broad review of the expected impacts of a group of detailed scenarios, highlighting those key differences that could

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