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9 April 2011

To: Steve Koonin
Under the Secretary of Science,
DOE
Washington D.C., USA

Email: DOE-QTRmailbox@hq.doe.gov

Subject: Quadrennial Technology Review: Hydrogen Economy for USA

Dear Mr. Koonin:

I recommend that hydrogen fuel cell car manufacturers and hydrogen producers in U.S.A. – with the assistance of DOE – should jointly develop a program – like the German H2 Mobility Program – for the United States, so that starting with the most promising states (Hawaii, California, Texas, Florida, Pennsylvania, New York., Massachusetts, etc.) hydrogen production and delivery infrastructure should be readied beginning 2015 and at the same time hydrogen fuel cell cars should be marketed starting with the states having their delivery systems in place, covering all of the United States in some three decades.

The above stated conversion to hydrogen fuel cell vehicles would have, among others, the following important advantages for the United States:

1. U.S. car manufacturers and hydrogen producers technologically will not lag behind the other countries (specifically Japan and Germany).

2. Initially most of the hydrogen will be produced using indigenous natural gas and eventually renewable energy sources, resulting in large reduction in oil imports.

3. There will be energy savings, since hydrogen fuel cell cars are more efficient.

4. There will be large numbers of jobs created.

5. Trade deficit will be reduced.

6. There will be large reductions in urban pollution, vehicle noise and greenhouse gas emissions.

7. There will be reductions in chest diseases and cancer (and therefore in healthcare expenditures) caused by air pollution.

Respectfully Submitted,

T. Nejat Veziroglu
President, International Association for Hydrogen Energy (IAHE)