

HTAC Recommendations to the Secretary

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HTAC Recommendations to the Secretary

Hydrogen and Fuel Cells Facilitate President Obama's Energy Strategy

Supports Green Grid

Supports Smart Grid

Exceptional Efficiency

Significant Emission Reductions

Fuel Flexibility, including local available fuels

HTAC Recommendations to the Secretary General

Considerations

Technology Leadership

- Portfolio approach
- More coordination among EERE programs
- Coordination among advisory committees
(organized around cross-cutting reports/studies?)
 - ITF
 - Progress in 2009 – want to continue momentum/intellectual leadership
- Loss of US competitiveness/leadership position
- H2 is important for enabling renewables, not just vehicles (systems approach). Dialogue among different components is necessary.

Dependency on Others

International Competition

What are the three things the Secretary can do?

- Build on fundamental research, integrate w/ technology programs (they are closely coupled)
- Technology development is needed (i.e. DoD presentation)
- Exercise strong leadership to regain position as a world leader/benefit economy, energy security, environment.
- Comparison to other technologies:
 - Ethanol subsidy
 - Battery manufacturing plants
- Evaluate US manufacturing capacity to inform future budgets
- Speak out on US intentions of maintaining leadership in this area (build on previous statements)
- Suggest events to attend/speak about portfolio approach and how h2 fits in (AAAS mtg in DC 2011)
- Point out success of the battery program
- Consider large demonstration programs ie, net zero community
- Leadership is important, you are instrumental to this, here's what you can do:

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Transportation

Future Hard to Predict

NAS recommends Portfolio Approach

Automotive Technology Leadership Required

Technology Pathways Difficult to Reopen

Brain Drain Already Evident

Parts Supply Chain Develops Overseas

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Stationary and Specialty Applications

Exceptional Energy Efficiency

Fuel Diversity including NG, Waste and Bio

Combined Heat and Power

Energy Security

New Technologies Emerging, like HTPEM

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Hydrogen and Fuel Cells Contribute to Jobs and Economic Recovery

Forecasts Point to Job growth

EU Study: 500,000 by 2030

DOE: 677,000 by 2035

Fuel Cell Today: 700,000 within 10 years

To create jobs and an industry, government needs to be an active and reliable partner

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Letter due to Secretary Chu ASAP

Discussion tonight:

Do we have consensus on points?

What do we need to add?

What do we want to eliminate?