

2018 Current Fiscal Year Report: Hydrogen and Fuel Cell Technical Advisory Committee

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1. Department or Agency

Department of Energy

2. Fiscal Year

2018

3. Committee or Subcommittee

Hydrogen and Fuel Cell Technical Advisory Committee

3b. GSA Committee No.

29148

4. Is this New During Fiscal Year?

No

5. Current Charter

08/24/2018

6. Expected Renewal Date

08/24/2020

7. Expected Term Date

8a. Was Terminated During Fiscal Year?

No

8b. Specific Termination Authority

8c. Actual Term Date

9. Agency Recommendation for Next Fiscal Year

Continue

10a. Legislation Req to Terminate?

No

10b. Legislation Pending?

Not Applicable

11. Establishment Authority

Statutory (Congress Created)

12. Specific Establishment Authority

EPACT 2005 Section 807

13. Effective Date

08/08/2005

14. Committee Type

Continuing

14c. Presidential?

No

15. Description of Committee

Other Committee

16a. Total Number of Reports

1

16b. Report Date

Report Title

04/04/2018 Minutes of the February 13-14 Meeting of the Hydrogen and Fuel Cell Technical Advisory Committee

Number of Committee Reports Listed: 1

17a. Open 1 17b. Closed 0 17c. Partially Closed 0 Other Activities 0 17d. Total 1

Meetings and Dates

| Purpose | Start | End |
|--|------------|------------|
| In-person meeting of the HTAC to develop and discuss recommendations to the Secretary on (1) the implementation of programs and activities under the Spark M. Matsunaga Hydrogen Act of 2005; (2) the safety, economical, and environmental consequences of technologies for the production, distribution, delivery, storage, or use of hydrogen energy and fuel cells; and (3) the plan under section 804 of the Spark M. Matsunaga Hydrogen Act of 2005. | 02/13/2018 | 02/14/2018 |

Number of Committee Meetings Listed: 1

| | Current FY | Next FY |
|---|-------------|-------------|
| 18a(1). Personnel Pmts to Non-Federal Members | \$0.00 | \$0.00 |
| 18a(2). Personnel Pmts to Federal Members | \$0.00 | \$3,807.00 |
| 18a(3). Personnel Pmts to Federal Staff | \$32,500.00 | \$32,500.00 |

| | | |
|---|--------------|--------------|
| 18a(4). Personnel Pmts to Non-Member Consultants | \$0.00 | \$0.00 |
| 18b(1). Travel and Per Diem to Non-Federal Members | \$16,036.00 | \$32,000.00 |
| 18b(2). Travel and Per Diem to Federal Members | \$0.00 | \$2,500.00 |
| 18b(3). Travel and Per Diem to Federal Staff | \$0.00 | \$0.00 |
| 18b(4). Travel and Per Diem to Non-member Consultants | \$0.00 | \$0.00 |
| 18c. Other(rents,user charges, graphics, printing, mail, etc.) | \$130,850.00 | \$275,000.00 |
| 18d. Total | \$179,386.00 | \$345,807.00 |
| 19. Federal Staff Support Years (FTE) | 0.25 | 0.25 |

20a. How does the Committee accomplish its purpose?

HTAC meets up to three times a year to review relevant work from subject matter experts to determine the state of domestic and foreign hydrogen and fuel cell industries, the state-of-the-art, relevant policies, state activities, entrepreneurial activities, competing technologies and market activity. The HTAC publishes an annual report at the end of each calendar year that highlights technical, market and policy developments both domestically and internationally. These reports are disseminated to leadership at DOE and published on the HTAC website, www.hydrogen.energy.gov/advisory_htac.html, for viewing by the public and other interested parties. HTAC also provides recommendations through letters to the Secretary including letters transmitting the annual report, as well as periodic reports on special topics.

20b. How does the Committee balance its membership?

Members are experts in their respective fields or representatives of entities including domestic industry, academia, professional societies, government agencies, Federal laboratories, previous advisory panels, and financial environmental and other appropriate organizations based on the Department's assessment of the technical and other qualifications of the Committee's members and the needs of the Committee.

20c. How frequent and relevant are the Committee Meetings?

The committee meets up to 3 times per year to develop and discuss recommendations to the Secretary on (1) the implementation of programs and activities under the Spark M. Matsunaga Hydrogen Act of 2005; (2) the safety, economical, and environmental consequences of technologies for the production, distribution, delivery, storage, or use of hydrogen energy and fuel cells; and (3) the plan under section 804 of the Spark M. Matsunaga Hydrogen Act of 2005.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

The Hydrogen Technical and Fuel Cell Advisory Committee is established to advise the

Secretary on the programs and activities under title VIII, Hydrogen, of the Energy Policy Act of 2005. Title VIII establishes the Hydrogen and Fuel Cell Program to (1) enable and promote comprehensive development, demonstration, and commercialization of hydrogen and fuel cell technology in partnership with industry; (2) to make critical public investments in building strong links to private industry, institutions of higher education, National Laboratories, and research institutions to expand innovation and industrial growth;(3) to build a mature hydrogen economy that creates fuel diversity in the massive transportation sector of the United States; (4) to sharply decrease the dependency of the United States on imported oil, eliminate most emissions from the transportation sector, and greatly enhance our energy security; and (5) to create, strengthen, and protect a sustainable national energy economy.

20e. Why is it necessary to close and/or partially closed committee meetings?

Not applicable

21. Remarks

EPACT 2005, Section 807.

Designated Federal Officer

Shawna McQueen Designated Federal Officer

| Committee Members | Start | End | Occupation | Member Designation |
|-------------------|------------|------------|---|--|
| Aszklar, Henry | 07/16/2018 | 07/16/2020 | Franklin Park Partners, LLC | Special Government Employee (SGE) Member |
| Ayers, Kathy | 12/01/2017 | 07/16/2019 | Vice President of Research & Development | Representative Member |
| Azevedo, Ines | 11/23/2016 | 07/16/2018 | Carnegie Mellon University | Special Government Employee (SGE) Member |
| Ffolkes, Marie | 07/16/2018 | 07/16/2020 | President, Industrial Gases, Air Products and Chemicals, Inc | Representative Member |
| Freese, Charles | 12/01/2017 | 07/16/2019 | Executive Director, Global Fuel Cell Activities | Representative Member |
| Irvin, Nicholas | 07/16/2018 | 07/16/2020 | Research and Development Director, Advanced Energy Systems - Southern Company | Representative Member |
| Koyama, Harol | 06/03/2010 | 07/16/2018 | President and CEO of H2 Power Tech | Representative Member |
| Leggett, Paul | 07/17/2014 | 07/16/2018 | Mithril Capital Management LLC | Representative Member |
| Leo, Anthony | 07/16/2018 | 07/16/2020 | Vice President, Applications and Advanced Technology Development, FuelCell Energy | Representative Member |
| Markowitz, Morry | 12/01/2017 | 07/16/2019 | President and Executive Director | Representative Member |
| Marsh, Andrew | 07/16/2018 | 07/16/2020 | President and Chief Executive Officer, Plug Power | Representative Member |
| Novachek, Frank | 07/18/2008 | 07/16/2018 | Xcel Energy; Director, Corporate Planning | Representative Member |
| Powell, Joseph | 11/23/2016 | 07/16/2018 | Shell Global Solutions | Representative Member |
| Rogers, Paul | 07/16/2018 | 07/16/2020 | Director, U.S. Army Tank Automotive Research, Development and Engineering Center (TARDEC) | Regular Government Employee (RGE) Member |
| Scott, Janea | 07/17/2014 | 07/16/2018 | California Energy Commission | Special Government Employee (SGE) Member |

Number of Committee Members Listed: 16

Narrative Description

The Committee reviews and makes recommendations to the Secretary of Energy on the implementation of programs and activities under Title VIII of EPACT, including (1) federal RD&D efforts in hydrogen and fuel cells and (2) the safety, economical, and environmental consequences of technologies for the production, distribution, delivery, storage, or use of hydrogen energy and fuel cells.

What are the most significant program outcomes associated with this committee?

Checked if Applies

- Improvements to health or safety
- Trust in government
- Major policy changes
- Advance in scientific research
- Effective grant making
- Improved service delivery
- Increased customer satisfaction
- Implementation of laws or regulatory requirements
- Other

Outcome Comments

NA

What are the cost savings associated with this committee?

Checked if Applies

- None
- Unable to Determine
- Under \$100,000
- \$100,000 - \$500,000
- \$500,001 - \$1,000,000
- \$1,000,001 - \$5,000,000
- \$5,000,001 - \$10,000,000
- Over \$10,000,000
- Cost Savings Other

Cost Savings Comments

NA

What is the approximate Number of recommendations produced by this committee for the life of the committee?

61

Number of Recommendations Comments

Various recommendations on improving program focus areas and on overall strategy and communications. No new recommendations were officially provided in FY2018, since the Committee was no scheduled to complete its 2017 Annual Report until November 2018.

What is the approximate Percentage of these recommendations that have been or will be Fully implemented by the agency?

69%

% of Recommendations Fully Implemented Comments

The agency has generally implemented the recommendations of the HTAC that are within the scope and mission of the agency and which are consistent with the DOE Hydrogen and Fuel Cell Program's goals and objectives.

What is the approximate Percentage of these recommendations that have been or will be Partially implemented by the agency?

30%

% of Recommendations Partially Implemented Comments

Recommendations that are outside the scope of the agency are not implemented (e.g., a recommendation to extend the Federal tax credits for fuel cell electric vehicles). Some recommendations have only been partially implemented, due to limitations in funding or conflicts with other agency priorities.

Does the agency provide the committee with feedback regarding actions taken to implement recommendations or advice offered?

Yes No Not Applicable

Agency Feedback Comments

Feedback is provided in letters from either the Secretary of Energy or the Assistant Secretary for Energy Efficiency and Renewable Energy. Additional feedback is provided at scheduled Committee meetings. A Biennial Report to Congress is also submitted summarizing the Agency's response to HTAC recommendations.

What other actions has the agency taken as a result of the committee's advice or recommendation?

Checked if Applies

- Reorganized Priorities
- Reallocated resources
- Issued new regulation
- Proposed legislation
- Approved grants or other payments
- Other

Action Comments

Not Applicable

Is the Committee engaged in the review of applications for grants?

No

Grant Review Comments

NA

How is access provided to the information for the Committee's documentation?

Checked if Applies

- Contact DFO
- Online Agency Web Site
- Online Committee Web Site
- Online GSA FACA Web Site
- Publications
- Other

Access Comments

http://www.hydrogen.energy.gov/advisory_htac.html