

# 2016 Current Fiscal Year Report: National Petroleum Council

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<b>1. Department or Agency</b>	<b>2. Fiscal Year</b>
Department of Energy	2016
<b>3. Committee or Subcommittee</b>	<b>3b. GSA Committee No.</b>
National Petroleum Council	452

<b>4. Is this New During Fiscal Year?</b>	<b>5. Current Charter</b>	<b>6. Expected Renewal Date</b>	<b>7. Expected Term Date</b>
No	01/08/2016	01/08/2018	

<b>8a. Was Terminated During Fiscal Year?</b>	<b>8b. Specific Termination Authority</b>	<b>8c. Actual Term Date</b>
No	AGEN	

<b>9. Agency Recommendation for Next Fiscal Year</b>	<b>10a. Legislation Req to Terminate?</b>	<b>10b. Legislation Pending?</b>
Continue	No	Not Applicable

**11. Establishment Authority** Agency Authority

<b>12. Specific Establishment Authority</b>	<b>13. Effective Date</b>	<b>14. Committee Type</b>	<b>14c. Presidential?</b>
AGEN	05/03/1946	Continuing	No

**15. Description of Committee** National Policy Issue Advisory Board

**16a. Total Number of Reports** 1

<b>16b. Report Date</b>	<b>Report Title</b>
07/29/2016	Emergency Preparedness Implementation Addendum

**Number of Committee Reports Listed:** 1

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

## Meetings and Dates

<b>Purpose</b>	<b>Start</b>	<b>End</b>
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126th meeting of the Council meeting with remarks by Energy Secretary Ernest Moniz and Deputy Secretary Elizabeth Sherwood-Randall, and a follow-up presentation on NPC and industry activities to support DOE in implementing the recommendations of the 2014 NPC report, Enhancing Emergency Preparedness for Natural Disasters, and in planning and conducting the Department's 2016 Clear Path IV emergency response exercise. 07/29/2016 - 07/29/2016

**Number of Committee Meetings Listed: 1**

	<b>Current FY</b>	<b>Next FY</b>
<b>18a(1). Personnel Pmts to Non-Federal Members</b>	\$0.00	\$0.00
<b>18a(2). Personnel Pmts to Federal Members</b>	\$0.00	\$0.00
<b>18a(3). Personnel Pmts to Federal Staff</b>	\$225,620.00	\$225,620.00
<b>18a(4). Personnel Pmts to Non-Member Consultants</b>	\$0.00	\$0.00
<b>18b(1). Travel and Per Diem to Non-Federal Members</b>	\$0.00	\$8,000.00
<b>18b(2). Travel and Per Diem to Federal Members</b>	\$0.00	\$0.00
<b>18b(3). Travel and Per Diem to Federal Staff</b>	\$2,020.00	\$12,000.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Administrative Costs (FRNs, contractor support, In-person/hybrid/virtual meetings)</b>	\$0.00	\$0.00

<b>18d. Other (all other funds not captured by any other cost category)</b>	\$1,200.00	\$1,200.00
<b>18e. Total Costs</b>	\$228,840.00	\$246,820.00
<b>19. Federal Staff Support Years (FTE)</b>	1.40	1.40

**20a. How does the Committee accomplish its purpose?**

The National Petroleum Council (NPC) is chartered to provide the Secretary of Energy with advice and recommendations on matters requested by the Secretary, relating to oil and natural gas, or the oil and natural gas industries. This purpose is largely accomplished through the conduct of studies. Matters that the Secretary would like to have considered by the NPC are submitted in the form of a letter outlining the nature and scope of the study. The NPC reserves the right to decide whether it will consider any matter referred to it. Over the last 60 years, the NPC has prepared over 200 reports dealing with virtually every aspect of oil and gas supply and demand. These reports have not only served as valuable tools in the development of energy policy but also have enabled government and industry to anticipate and jointly seek solutions to current and future energy problems. NPC reports are widely circulated and serve as references for energy analysts, industry and government decision makers, legislators, and academicians.

**20b. How does the Committee balance its membership?**

Members of the NPC are appointed by the Secretary of Energy and represent specific oil and gas industry sectors or related interests. These include balanced representation from among, but

not limited to: integrated oil and natural gas companies; independent refiners, large and small independent oil and gas producers; midstream and retail oil and gas companies; construction, drilling, and oilfield services; financial and consultant services; electric companies and other large consumers; and non-industry or not-for-profit organizations such as academia, States, Native American Tribes, and professional societies.

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

The NPC meets in Washington, DC, once or twice a year and study groups meet as necessary. The time, place, and agenda of each Council and study group meeting are determined by its respective chair person, with the concurrence of the Department. The knowledge and experience that resides in the NPC provides a perspective on oil and natural gas issues and the oil and natural gas industries which is otherwise unavailable.

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

There are no other sources with the breadth, depth, and diversity of oil and gas technical and policy knowledge and expertise that the NPC provides. No other federal advisory committee currently performs, or is capable of performing, the functions of the NPC. It would not be possible for the Department to duplicate the knowledge and expertise embodied in the Council and its study committees in addressing important oil and gas issues, e.g., by using alternative methods such as public hearings, contractor work efforts, or in-house study efforts.

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

N/A

## **21. Remarks**

Originally established by the Department of the Interior in 1946 at the request of President Harry S. Truman and subsequently transferred to the Department of Energy in 1977, the National Petroleum Council (NPC) provides advice and recommendations to the Secretary of Energy on matters related to oil and natural gas, and the oil and natural gas industries. In 2013, Energy Secretary Ernest Moniz requested that the NPC conduct two strategic, short term studies to inform government decision making, specifically studies on natural gas and oil infrastructure resilience (Emergency Preparedness for Natural Disasters) completed in December 2014 and Arctic Research completed in March 2015. In 2009, Energy Secretary Steven Chu had requested the NPC undertake two major studies, continuing a tradition of NPC studies having the potential for broad public policy impact. The first NPC study, completed in 2011, assessed the character and potential of North American natural gas and oil resources and the contribution that natural gas can make in a transition to a lower carbon energy mix while achieving objectives of environmental protection, economic growth, and energy security. The second NPC study on future transportation fuels, completed in 2012, examined the prospects for integrating new fuels and vehicles into the marketplace and reducing greenhouse gas emissions in the U.S. transportation sector by 2050. Pivotal energy challenges addressed in the NPC study reports include ensuring prudent development of the Nation's abundant oil and gas resources, reducing the Nation's reliance on oil imports and oil use in the transportation sector, and reducing greenhouse gas emissions that

contribute to global climate change. Technology innovation, the capabilities of industry, and other factors will be critical to meeting the future energy needs of American consumers and protecting the environment.

## Designated Federal Officer

Christopher A. Smith Assistant Secretary for  
Fossil Energy

Committee Members	Start	End	Occupation	Member Designation
Akins, Nicholas	04/25/2016	04/25/2018	American Electric Power Co.	Representative Member
Alcorn, George	04/25/2016	04/25/2018	Alcorn Exploration, Inc.	Representative Member
Anderson, Robert	04/25/2016	04/25/2018	Wood MacKenzie Inc.	Representative Member
Andress, Thurmon	04/25/2016	04/25/2018	BreitBurn Energy LP	Representative Member
Anthony, Robert	04/25/2016	04/25/2018	Oklahoma Corporation Commission	Representative Member
Armstrong, Alan	04/25/2016	04/25/2018	The Williams Companies, Inc.	Representative Member
Armstrong, Gregory	04/25/2016	04/25/2018	Plains All American Pipeline, L.P.	Representative Member
Armstrong, Robert	04/25/2016	04/25/2018	Armstrong Energy Corporation	Representative Member
Arnold, Gregory	04/25/2016	04/25/2018	Truman Arnold Companies	Representative Member
Asherman, Philip	04/25/2016	04/25/2018	Chicago Bridge & Iron Company N.V.	Representative Member
Bailey, Vicky	04/25/2016	04/25/2018	Anderson Stratton Enterprises, LLC	Representative Member
Bastian, Edward	04/25/2016	04/25/2018	Delta Air Lines, Inc.	Representative Member
Bechtel, Riley	04/25/2016	04/25/2018	Bechtel Group, Inc.	Representative Member
Benezit, Michel	04/25/2016	04/25/2018	Total S.A.	Representative Member
Benson, Sally	06/24/2016	06/24/2018	Stanford University	Representative Member
Best, Anthony	03/21/2014	04/25/2016	SM Energy Company	Representative Member
Bollinger, Donald	03/21/2014	04/25/2016	Bollinger Shipyards, Inc.	Representative Member
Book, Kevin	04/25/2016	04/25/2018	ClearView Energy Partners, LLC	Representative Member
Bookout, John	04/25/2016	04/25/2018	John F. Bookout	Representative Member

Boothby, Lee	04/25/2016	04/25/2018	Newfield Exploration Company	Representative Member
Bordoff, Jason	04/25/2016	04/25/2018	Columbia University	Representative Member
Bradie, Stuart	04/25/2016	04/25/2018	KBR, Inc.	Representative Member
Brown, Chris	03/21/2014	04/25/2016	Vestas Americas, USA	Representative Member
Brownstein, Mark	04/25/2016	04/25/2018	Environmental Defense Fund	Representative Member
Burguieres, Philip	03/21/2014	04/25/2016	EMC Holdings, L.L.C.	Representative Member
Burke, Sharon	04/25/2016	04/25/2018	New America	Representative Member
Cabell, Matthew	04/25/2016	04/25/2018	Seneca Resources Corporation	Representative Member
Callahan, Kateri	04/25/2016	04/25/2018	Alliance to Save Energy	Representative Member
Caplan, Deborah	04/25/2016	04/25/2018	NextEra Energy, Inc.	Representative Member
Catell, Robert	04/25/2016	04/25/2018	Stony Brook University	Representative Member
Chazen, Stephen	03/21/2014	04/25/2016	Occidental Petroleum Corporation	Representative Member
Christmann, John	04/25/2016	04/25/2018	Apache Corporation	Representative Member
Claussen, Eileen	03/21/2014	04/25/2016	Center for Climate and Energy Solutions	Representative Member
Cocklin, Kim	04/25/2016	04/25/2018	Atmos Energy Corporation	Representative Member
Coleman, Thomas	03/21/2014	04/25/2016	International-Matex Tank Terminals	Representative Member
Cook, Linda	06/24/2016	06/24/2018	Harbour Energy, Ltd.	Representative Member
Cothran, Brian	04/25/2016	04/25/2018	GE Oil & Gas	Representative Member
Courtney, Richard	04/25/2016	04/25/2018	International-Matex Tank Terminals	Representative Member
Craddick, Christi	04/25/2016	04/25/2018	Railroad Commission of Texas	Representative Member
Craighead, Martin	04/25/2016	04/25/2018	Baker Hughes Incorporated	Representative Member
Croft, Helima	06/24/2016	06/24/2018	RBC Capital Markets Corporation	Representative Member
Culpepper, Bruce	04/25/2016	04/25/2018	Shell Oil Company	Representative Member
Custard, William	04/25/2016	04/25/2018	Dallas Production, Inc.	Representative Member
Cutt, Timothy	03/21/2014	04/25/2016	BHP Billiton Petroleum	Representative Member

Davidson, Charles	04/25/2016	04/25/2018	Quantum Energy Partners	Representative Member
Davis, D. Scott	03/21/2014	04/25/2016	UPS	Representative Member
Davis, Lisa	04/25/2016	04/25/2018	Siemens AG	Representative Member
Demers, David	03/21/2014	04/25/2016	Westport Innovations Inc.	Representative Member
Deming, Claiborne	04/25/2016	04/25/2018	Murphy Oil Corporation	Representative Member
Demshur, David	03/21/2014	04/25/2016	Core Laboratories	Representative Member
Denault, Leo	04/25/2016	04/25/2018	Entegry Corporation	Representative Member
Descalzi, Claudio	04/25/2016	04/25/2018	Enis S.p.A.	Representative Member
Deutch, John	04/25/2016	04/25/2018	Massachusetts Institute of Technology	Representative Member
Downes, Laurence	04/25/2016	04/25/2018	New Jersey Resources	Representative Member
Dunlap, David	04/25/2016	04/25/2018	Superior Energy Services	Representative Member
Dunn, W. Byron	04/25/2016	04/25/2018	Tubular Synergy Group, LP	Representative Member
Duroc-Danner, Bernard	04/25/2016	04/25/2018	Weatherford International Ltd.	Representative Member
Ebel, Gregory	04/25/2016	04/25/2018	Spectra Energy Corp	Representative Member
Eisbrenner, Kathleen	04/25/2016	04/25/2018	NextDecade, LLC	Representative Member
Ellis, Mark	04/25/2016	04/25/2018	LINN Energy, LLC	Representative Member
England, John	04/25/2016	04/25/2018	Deloitte LLP	Representative Member
Erickson, Ronald	04/25/2016	04/25/2018	Holiday Companies	Representative Member
Farrell, Dawn	03/21/2014	04/25/2016	TransAlta Corporation	Representative Member
Farris, G. Steven	03/21/2014	04/25/2016	Apache Corporation	Representative Member
Fees, John	03/21/2014	04/25/2016	The Babcock & Wilcox Company	Representative Member
Felt, Timothy	04/25/2016	04/25/2018	Colonial Pipeline Company	Representative Member
Fesharaki, Fereidun	04/25/2016	04/25/2018	FACTS Global Energy	Representative Member
Fisher, William	04/25/2016	04/25/2018	The University of Texas	Representative Member
Flores, James	04/25/2016	04/25/2018	Sable Minerals, Inc.	Representative Member
Foster, Paul	04/25/2016	04/25/2018	Western Refining, Inc.	Representative Member

Foutch, Randy	04/25/2016	04/25/2018	Laredo Petroleum, Inc.	Representative Member
Fowke, Benjamin	04/25/2016	04/25/2018	Xcel Energy, Inc.	Representative Member
Fox, Jeanne	03/21/2014	04/25/2016	New Jersey Board of Public Utilities	Representative Member
Fry, Thomas	04/25/2016	04/25/2018	Fry Advisors	Representative Member
Garland, Greg	04/25/2016	04/25/2018	Phillips 66 Company	Representative Member
Gee, Robert	04/25/2016	04/25/2018	Gee Strategies Group, LLC	Representative Member
Gerson, Elliot	04/25/2016	04/25/2018	The Aspen Institute	Representative Member
Gibbs, James	04/25/2016	04/25/2018	Five States Energy Company, LLC	Representative Member
Gibson, John	03/21/2014	04/25/2016	ONEOK, Inc.	Representative Member
Girling, Russell	04/25/2016	04/25/2018	TransCanada Corporation	Representative Member
Glendon, David	04/25/2016	04/25/2018	Sprague Resources LP	Representative Member
Glenn, Richard	04/25/2016	04/25/2018	Arctic Slope Regional Corporation	Representative Member
Glover, Paula	04/25/2016	04/25/2018	American Association of Blacks in Energy	Representative Member
Goldstein, Lawrence	04/25/2016	04/25/2018	Energy Policy Research Foundation, Inc.	Representative Member
Goldwyn, David	04/25/2016	04/25/2018	Goldwyn Global Strategies, LLC	Representative Member
Gorder, Joseph	04/25/2016	04/25/2018	Valero Energy Corporation	Representative Member
Grempe, John	04/25/2016	04/25/2018	FMC Technologies, Inc.	Representative Member
Hackett, James	04/25/2016	04/25/2018	Riverstone Holdings LLC	Representative Member
Hail, James	03/21/2014	04/25/2016	DeGolyer and MacNaughton	Representative Member
Hamilton, Frederic	04/25/2016	04/25/2018	The Hamilton Companies LLC	Representative Member
Hamm, Harold	04/25/2016	04/25/2018	Continental Resources, Inc.	Representative Member
Hamrock, Joseph	04/25/2016	04/25/2018	NiSource Inc.	Representative Member
Harbert, Karen	06/24/2016	06/24/2018	Institute for 21st Century Energy	Representative Member
Harju, John	04/25/2016	04/25/2018	University of North Dakota	Representative Member
Hastings, Marilu	04/25/2016	04/25/2018	Cynthia and George Mitchell Foundation	Representative Member

Heintzelman, Daniel	03/21/2014	04/25/2016	General Electric Company	Representative Member
Heminger, Gary	03/21/2014	04/25/2016	Marathon Petroleum Corporation	Representative Member
Henley, Jeffrey	04/25/2016	04/25/2018	Oracle Corporation	Representative Member
Hess, John	04/25/2016	04/25/2018	Hess Corporation	Representative Member
Hightower, Jack	04/25/2016	04/25/2018	HighPeak Energy	Representative Member
Hightower, Stephen	04/25/2016	04/25/2018	Hightowers Petroleum Co.	Representative Member
Hildebrand, Jeffery	04/25/2016	04/25/2018	Hilcorp Energy Company	Representative Member
Hill, Ralph	04/25/2016	04/25/2018	New Gulf Resources, LLC	Representative Member
Hofmeister, John	04/25/2016	04/25/2018	Citizens for Affordable Energy, Inc.	Representative Member
Hoglund, Forrest	04/25/2016	04/25/2018	SeaOne Maritime Corp.	Representative Member
Hollub, Vicki	04/25/2016	04/25/2018	Occidental Petroleum Corporation	Representative Member
Houston, Martin	04/25/2016	04/25/2018	Tellurian Investments	Representative Member
Hunt, Ray	04/25/2016	04/25/2018	Hunt Consolidated, Inc.	Representative Member
Huntington, Hillard	04/25/2016	04/25/2018	Stanford University	Representative Member
Hurd, John	04/25/2016	04/25/2018	Hurd Enterprises, Ltd.	Representative Member
Imaz, J.	04/25/2016	04/25/2018	Repsol	Representative Member
Jacobs, Terrence	04/25/2016	04/25/2018	Penneco Oil Company	Representative Member
Jaffe, Amy	04/25/2016	04/25/2018	University of California	Representative Member
Jennings, Michael	03/21/2014	04/25/2016	HollyFrontier	Representative Member
Jibson, Ronald	03/21/2014	04/25/2016	Questar Corporation	Representative Member
Jones, A.	04/25/2016	04/25/2018	Van Operating, Ltd.	Representative Member
Jones, James	04/25/2016	04/25/2018	Jones Group International	Representative Member
Jones, Jon	04/25/2016	04/25/2018	Jones Management Corp.	Representative Member
Jorden, Thomas	04/25/2016	04/25/2018	Cimarex Energy Co.	Representative Member
Julander, Fred	04/25/2016	04/25/2018	Julander Energy Company	Representative Member

Kampling, Patricia	04/25/2016	04/25/2018	Alliant Energy Corporation	Representative Member
Kantor, Gregg	03/21/2014	04/25/2016	NW Natural	Representative Member
Karsner, Alexander	04/25/2016	04/25/2018	Emerson Collective, LLC	Representative Member
Kibsgaard, Paal	04/25/2016	04/25/2018	Schlumberger Limited	Representative Member
Kinder, Richard	04/25/2016	04/25/2018	Kinder Morgan Inc.	Representative Member
King, Thomas	03/21/2014	04/25/2016	National Grid	Representative Member
Kirschner, Michael	04/25/2016	04/25/2018	Kirschner Brothers Cos.	Representative Member
Krenicki, John	04/25/2016	04/25/2018	Clayton, Dubilier & Rice, LLC	Representative Member
Kuuskraa, Vello	04/25/2016	04/25/2018	Advanced Resources International, Inc.	Representative Member
LaRossa, Ralph	04/25/2016	04/25/2018	Public Service Electric and Gas Company	Representative Member
Lance, Ryan	04/25/2016	04/25/2018	ConocoPhillips Company	Representative Member
Lawler, Robert	04/25/2016	04/25/2018	Chesapeake Energy Corporation	Representative Member
Layton, Stephen	04/25/2016	04/25/2018	E&B Natural Resources Management Corporation	Representative Member
Lazenby, Virginia	04/25/2016	04/25/2018	Bretagne, LLC	Representative Member
Lesar, David	04/25/2016	04/25/2018	Halliburton Company	Representative Member
Leveson, Nancy	03/21/2014	04/25/2016	Massachusetts Institute of Technology	Representative Member
Lieuwen, Timothy	04/25/2016	04/25/2018	Georgia Institute of Technology	Representative Member
Linn, Michael	04/25/2016	04/25/2018	MCL Ventures LLC	Representative Member
Liveris, Andrew	04/25/2016	04/25/2018	The Dow Chemical Company	Representative Member
Longhi, Mario	04/25/2016	04/25/2018	United States Steel Corporation	Representative Member
Lopez, Daniel	04/25/2016	04/25/2018	New Mexico Institute of Mining and Technology	Representative Member
Lovins, Amory	04/25/2016	04/25/2018	Rocky Mountain Institute	Representative Member
Madridejos, Ignacio	04/25/2016	04/25/2018	CEMEX USA	Representative Member
Maguire, Cary	04/25/2016	04/25/2018	Maguire Oil Company	Representative Member

Maloney, William	03/21/2014	04/25/2016	Statoil ASA	Representative Member
McCallister, Terry	04/25/2016	04/25/2018	WGL Holdings, Inc.	Representative Member
McClanahan, David	03/21/2014	04/25/2016	CenterPoint Energy, Inc.	Representative Member
McClendon, Aubrey	03/21/2014	03/02/2016	American Energy Partners, LP	Representative Member
McEvoy, M. Kevin	04/25/2016	04/25/2018	Oceaneering International, Inc.	Representative Member
McManus, James	04/25/2016	04/25/2018	Energen Corporation	Representative Member
McNally, Robert	04/25/2016	04/25/2018	The Rapidan Group, LLC	Representative Member
McQuade, Rae	04/25/2016	04/25/2018	North American Energy Standards Board	Representative Member
Medlock, Kenneth	04/25/2016	04/25/2018	Rice University - James A. Baker, III Institute for Public Policy	Representative Member
Miller, Augustus	04/25/2016	04/25/2018	Miller Oil Company, Inc.	Representative Member
Miller, David	04/25/2016	04/25/2018	EnCap Investments L.P.	Representative Member
Miller, Mark	04/25/2016	04/25/2018	Merlin Oil and Gas, Inc.	Representative Member
Miller, Merrill	04/25/2016	04/25/2018	DistributionNow	Representative Member
Minge, John	04/25/2016	04/25/2018	BP America Inc.	Representative Member
Monaco, Al	04/25/2016	04/25/2018	Enbridge Inc.	Representative Member
Moore, Jack	04/25/2016	04/25/2018	Cameron	Representative Member
Moy, Alicia	03/21/2014	04/25/2016	Hawai'i Gas	Representative Member
Mueller, Steven	03/21/2014	04/25/2016	Southwestern Energy Company	Representative Member
Murfin, David	04/25/2016	04/25/2018	Murfin Drilling Co., Inc.	Representative Member
Murphy, Mark	04/25/2016	04/25/2018	Strata Production Company	Representative Member
Myers, Mark	03/21/2014	04/25/2016	Alaska Department of Natural Resources	Representative Member
Neville, Richard	03/21/2014	04/25/2016	Western Petroleum Company	Representative Member
Newell, Richard	06/24/2016	06/24/2018	Resources for the Future	Representative Member
Nichols, J. Larry	04/25/2016	04/25/2018	Devon Energy Corporation	Representative Member
Nimbley, Thomas	04/25/2016	04/25/2018	PBF Energy	Representative Member

Noonan, Patrick	04/25/2016	04/25/2018	The Conservation Fund	Representative Member
Northington, John	04/25/2016	04/25/2018	Northington Strategy Group	Representative Member
Norton, Pierce	04/25/2016	04/25/2018	ONE Gas, Inc.	Representative Member
Nusz, Thomas	04/25/2016	04/25/2018	Oasis Petroleum, LLC	Representative Member
O'Reilly, David	03/21/2014	04/25/2016	Bechtel Corporation	Representative Member
Odum, Marvin	03/21/2014	04/25/2016	Shell Oil Company	Representative Member
Ottoson, Javan	04/25/2016	04/25/2018	SM Energy Compan	Representative Member
Palmer, C. R.	04/25/2016	04/25/2018	Rowan Companies, Inc.	Representative Member
Papa, Mark	03/21/2014	04/25/2016	EOG Resources, Inc.	Representative Member
Paque, Michel	04/25/2016	04/25/2018	Ground Water Protection Council	Representative Member
Parker, Robert	03/21/2014	04/25/2016	Parker Drilling Company	Representative Member
Pastor, Stephen	04/25/2016	04/25/2018	BHP Billiton Petroleum	Representative Member
Paul, Donald	04/25/2016	04/25/2018	University of Southern California	Representative Member
Perciasepe, Robert	04/25/2016	04/25/2018	Center for Climate and Energy Solutions	Representative Member
Petrello, Anthony	04/25/2016	04/25/2018	Nabors Industries	Representative Member
Platt, Jeffrey	04/25/2016	04/25/2018	Tidewater Inc.	Representative Member
Porges, David	04/25/2016	04/25/2018	EQT Corporation	Representative Member
Pulsipher, Allan	04/25/2016	04/25/2018	Louisiana State University	Representative Member
Rabun, Daniel	03/21/2014	04/25/2016	ENSCO plc	Representative Member
Ralls, W. Matt	04/25/2016	04/25/2018	Rowan Companies, Inc.	Representative Member
Ranich, Rebecca	04/25/2016	04/25/2018	Ranich	Representative Member
Raymond, Lee	04/25/2016	04/25/2018	Raymond, Lee R.	Representative Member
Reed, Debra	04/25/2016	04/25/2018	Sempra Energy	Representative Member
Reitan, Torgrim	04/25/2016	04/25/2018	Statoil ASA	Representative Member
Ressler, June	04/25/2016	04/25/2018	Cenergy Partners	Representative Member
Rich, Gary	04/25/2016	04/25/2018	Parker Drilling Company	Representative Member

Robertson, Corbin	04/25/2016	04/25/2018	Quintana Minerals Corporation	Representative Member
Rocca, Paolo	04/25/2016	04/25/2018	Tenaris S.A.	Representative Member
Rogers, Matthew	04/25/2016	04/25/2018	McKinsey & Company	Representative Member
Rutherford, Marty	04/25/2016	04/25/2018	State of Alaska	Representative Member
Rykhoeck, Philip	03/21/2014	04/25/2016	Denbury Resources	Representative Member
Scaroni, Paolo	03/21/2014	04/25/2016	Eni S.p.A	Representative Member
Schuller, Tisha	06/24/2016	06/24/2018	Stanford University	Representative Member
Seaton, David	04/25/2016	04/25/2018	Fluor Corporation	Representative Member
Seavors, Dean	04/25/2016	04/25/2018	National Grid US	Representative Member
Seligmann, Peter	04/25/2016	04/25/2018	Conservation International	Representative Member
Sewell, S. Scott	03/21/2014	04/25/2016	Delta Energy Management, Inc.	Representative Member
Shackouls, Bobby	04/25/2016	04/25/2018	National Petroleum Council	Representative Member
Sharp, Philip	04/25/2016	04/25/2018	Resources for the Future	Representative Member
Shearer, R. Gordon	03/21/2014	04/25/2016	Metis Energy LLC/Logan Energy LLC	Representative Member
Sheffield, Scott	04/25/2016	04/25/2018	Pioneer Natural Resources Company	Representative Member
Shinn, Bryan	04/25/2016	04/25/2018	U.S. Silica	Representative Member
Skaggs, Robert	03/21/2014	04/25/2016	NiSource, Inc.	Representative Member
Skains, Thomas	04/25/2016	04/25/2018	Piedmont Natural Gas	Representative Member
Slifka, Eric	04/25/2016	04/25/2018	Global Partners LP	Representative Member
Smith, Carl Michael	04/25/2016	04/25/2018	Interstate Oil and Gas Compact Commission	Representative Member
Smith, Clark	04/25/2016	04/25/2018	Buckeye Partners, L.P.	Representative Member
Somerhalder, John	04/25/2016	04/25/2018	AGL Resources	Representative Member
Spath, Jeffrey	04/25/2016	04/25/2018	Society of Petroleum Engineers	Representative Member
Spencer, Terry	04/25/2016	04/25/2018	ONEOK, Inc.	Representative Member
Stanley, Charles	04/25/2016	04/25/2018	QEP Resources, Inc.	Representative Member

Stedman, Bert	04/25/2016	04/25/2018	The Energy Council	Representative Member
Stewart, Lisa	04/25/2016	04/25/2018	Sheridan Production Partners	Representative Member
Stover, David	04/25/2016	04/25/2018	Noble Energy, Inc.	Representative Member
Suttles, Douglas	04/25/2016	04/25/2018	Encana Corporation	Representative Member
Tew, Berry	04/25/2016	04/25/2018	State of Alabama	Representative Member
Thomas, William	04/25/2016	04/25/2018	EOG Resources	Representative Member
Tillerson, Rex	04/25/2016	04/25/2018	ExxonMobil Corporation	Representative Member
Tillman, Lee	04/25/2016	04/25/2018	Marathon Oil Corporation	Representative Member
Tinker, Scott	04/25/2016	04/25/2018	The University of Texas	Representative Member
Tosch, William	04/25/2016	04/25/2018	J.P. Morgan Securities Inc.	Representative Member
True, H.A.	04/25/2016	04/25/2018	True Oil LLC	Representative Member
Tudor, Robert	04/25/2016	04/25/2018	Tudor, Pickering, Holt & Co., LLC	Representative Member
Utt, William	03/21/2014	04/25/2016	KBR, Inc.	Representative Member
Valdez, W. Bruce	04/25/2016	04/25/2018	Southern Ute Indian Tribe Growth Fund	Representative Member
Vazquez, Jamie	04/25/2016	04/25/2018	W&T Offshore	Representative Member
Vennerberg, Vaughan	04/25/2016	04/25/2018	MorningStar Partners, LP	Representative Member
Venter, J. Craig	04/25/2016	04/25/2018	J. Craig Venter Institute	Representative Member
Verleger, Philip	03/21/2014	04/25/2016	PKVerleger LLC	Representative Member
Verrastro, Frank	04/25/2016	04/25/2018	Center for Strategic and International Studies	Representative Member
Vincent, Bruce	04/25/2016	04/25/2018	Vincent and Company	Representative Member
Walker, John	04/25/2016	04/25/2018	EnerVest, Ltd.	Representative Member
Walker, R.	04/25/2016	04/25/2018	Anadarko Petroleum Corporation	Representative Member
Wallace, John	04/25/2016	04/25/2018	DeGolyer and MacNaughton	Representative Member
Warner, Cynthia	04/25/2016	04/25/2018	Tesoro Companies, Inc.	Representative Member
Warren, Kelcy	04/25/2016	04/25/2018	Energy Transfer Partners	Representative Member

Watford, Michael	04/25/2016	04/25/2018	Ultra Petroleum Corp.	Representative Member
Watson, John	04/25/2016	04/25/2018	Chevron Corporation	Representative Member
Way, William	04/25/2016	04/25/2018	Southwestern Energy Company	Representative Member
West, J. Robinson	04/25/2016	04/25/2018	Center for Strategic & International Studies	Representative Member
White, Craig	04/25/2016	04/25/2018	Philadelphia Gas Works	Representative Member
White, William	04/25/2016	04/25/2018	Lazard Freres & Co. LLC	Representative Member
Williams, David	04/25/2016	04/25/2018	Noble Corporation plc	Representative Member
Wilson, Mary Jane	04/25/2016	04/25/2018	WZI Inc.	Representative Member
Wise, Stan	04/25/2016	04/25/2018	State of Georgia	Representative Member
Wood, Patrick	04/25/2016	04/25/2018	Wood3 Resources	Representative Member
Wright, Karen	04/25/2016	04/25/2018	Ariel Corporation	Representative Member
Yates, George	04/25/2016	04/25/2018	HEYCO Energy Group, Inc.	Representative Member
Yates, John	03/21/2014	04/25/2016	Yates Petroleum Corporation	Representative Member
Yergin, Daniel	04/25/2016	04/25/2018	IHS Markit	Representative Member
Young, John	04/25/2016	04/25/2018	Energy Future Holdings Corp.	Representative Member

**Number of Committee Members Listed: 260**

### **Narrative Description**

The findings and recommendations of NPC studies support more informed energy-related public policy decisions and the achievement of Department of Energy and Administration goals related to energy, the environment, and the economy, including actions to build the foundation for a clean energy future, enable responsible development of domestic oil and natural gas resources, tackle the issue of climate change, and strengthen the Nation's infrastructure.

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

	Checked if Applies
Improvements to health or safety	<input type="checkbox"/>
Trust in government	<input type="checkbox"/>
Major policy changes	<input checked="" type="checkbox"/>
Advance in scientific research	<input type="checkbox"/>
Effective grant making	<input type="checkbox"/>
Improved service delivery	<input type="checkbox"/>
Increased customer satisfaction	<input type="checkbox"/>
Implementation of laws or regulatory requirements	<input type="checkbox"/>
Other	<input checked="" type="checkbox"/>

### Outcome Comments

Prior outcomes have included more informed decisions by state and federal government on policy, research, and regulatory initiatives with substantial public benefit.

### What are the cost savings associated with this committee?

	Checked if Applies
None	<input type="checkbox"/>
Unable to Determine	<input type="checkbox"/>
Under \$100,000	<input type="checkbox"/>
\$100,000 - \$500,000	<input type="checkbox"/>
\$500,001 - \$1,000,000	<input type="checkbox"/>
\$1,000,001 - \$5,000,000	<input type="checkbox"/>
\$5,000,001 - \$10,000,000	<input type="checkbox"/>
Over \$10,000,000	<input type="checkbox"/>
Cost Savings Other	<input type="checkbox"/>

### Cost Savings Comments

The NPC's 2003 natural gas study showed that a balanced approach to future public policy decision making to increase energy efficiency, develop of new resources, and enable flexibility in fuel choice, could save U.S. consumers \$1 trillion in U.S. natural gas costs over the next 20 years. Other NPC studies have addressed topics of similar economic significance. For example, the NPC's 2015 Arctic Research study identified actions that would enhance future national, economic and energy security, benefit the people of the North and the U.S. as a whole, and position the U.S. to exercise global leadership. Oil and gas development represented one-third of the State of Alaska's

economic activity and provided 90% of the State's general funds in 2014. Projected net revenues to the State from Arctic OCS development if pursued could be about \$6.6 billion over 50 years, as discussed in the study report. The NPC's 2014 Emergency Preparedness study identified actions to continuously improve and ensure a state of readiness to respond to oil and gas supply chain disruptions arising from natural disasters; such actions can mitigate impacts on consumers and regional economies. The NPC's 2012 Future Transportation Fuels study identified technologies that could increase vehicle fuel economy and reduce greenhouse gas emissions from American transportation. Recommendations in the NPC's 2011 report on Prudent Development of North America's abundant natural gas and oil resources were evaluated from the perspectives of economic prosperity, environmental sustainability, and energy security. And, the potential benefits in all three areas was substantial. The NPC's 2007 study on global oil and natural gas provided insights for shaping energy policy that strengthens global energy security, economic prosperity, and environmental stewardship. The NPC's 2004 study on U.S. petroleum refining and inventories highlighted government actions that could enable petroleum markets to operate more efficiently or avoid significant petroleum product supply disruptions.

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

2,800

#### **Number of Recommendations Comments**

Based on prior experience, many NPC studies result in approximately 14 major recommendations, and some yield considerably more. In 69 years, the NPC has prepared over 200 reports dealing with virtually every aspect of oil and gas supply and demand. These reports have not only served as valuable tools in the development of energy policy but also have enabled government and industry to anticipate and jointly seek solutions to current and future energy problems.

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

30%

#### **% of Recommendations Fully Implemented Comments**

Estimates of how many NPC recommendations have been implemented may be subjective as NPC recommendations range in scope, specificity and timing. NPC recommendations often encompass broad public policy strategies for addressing the Nation's energy challenges. The implementation timespan for some recommendations

such as those to enhance natural gas supply diversity or to sustain and enhance natural gas infrastructure, could span decades. Additionally, NPC recommendations may call for action by industry and/or government (including Congress, states, one or more federal agencies, or some combination).

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

45%

**% of Recommendations Partially Implemented Comments**

Prior assessments have shown that government has made substantial progress in implementing up to 75% of the recommendations in some NPC studies. However, as discussed above, estimates of how many NPC recommendations have been implemented may be subjective. For example, the NPC's 2003 natural gas study resulted in four overarching recommendations to: 1) improve demand flexibility and efficiency, 2) increase supply diversity, 3) sustain and enhance natural gas infrastructure, and 4) promote efficiency of natural gas markets, and over 60 supporting recommendations.

Recommendations from the NPC's 2004 study on U.S. petroleum refining and inventories were more granular and addressed topics such as new source review reform, national ambient air quality standards, ultra low sulfur diesel regulations, national energy legislation, sound science, cost-effectiveness and energy analysis, and permitting, and actions by government on these topics continue to evolve. Numerous recommendations in these 2003 and 2004 NPC studies were reflected in national energy plans and initiatives, as well as provisions of the Energy Policy Act of 2005. The NPC's 2007 study report on global oil and gas outlined five core strategies to enable industry and government to more adequately address evolving trends in U.S. and global energy supply and demand, and contained over 40 supporting recommendations, which broadly helped to shape public and private sector dialogue, policy and investment on a range of topics including energy efficiency, carbon management, fuel diversity, and the geopolitics of energy for several years. Recommendations from the NPC's 2011 Prudent Development study reflected five core strategies to support prudent natural gas and oil resources development and regulation; better reflect environmental impacts in markets and fuel technology choices; enhance the efficient use of energy; enhance the functioning of energy markets; and, support the development of a skilled workforce. Recommendations in the NPC's 2012 Future Transportation study called on government to promote sustained funding and other resources, either separately or in combination with industry, on the pre-competitive aspects of 12 priority technologies, as well as in areas that could lead to disruptive innovations. The NPC's 2015 Arctic Research study report included 32 recommendations in the executive summary addressing research, regulatory improvements, and

leadership/policy considerations that align well with the President's all-of-the-above energy strategy and U.S. Arctic Policy, and an additional 60 specific research recommendations.

**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 to NPC members on the value of the committee's studies and recommendations through remarks made by the Secretary of Energy and Deputy Secretary of Energy at NPC meetings, by periodic reports on progress made to implement NPC recommendations, by DOE sharing information on the status of government actions related to NPC recommendations, and the frequent use of, or reference to, NPC studies by DOE and other government agencies. For example, in January 2008, the Secretary of Energy distributed copies of the Hard Truths report to all members of Congress and State governors. In May 2008, the Secretary sent a letter to the Council Chair that included a DOE review of actions taken by government consistent with recommendations contained in the NPC's 2007 Hard Truths report; and copies were subsequently provided to all NPC members. More recently, the work of the NPC has clear linkages to goals outlined in the Administration's Blueprint for a Secure Energy Future, Climate Action Plan, Quadrennial Energy Review, National Strategy for the Arctic Region, and various government initiatives from 2011 through 2016.

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

Checked if Applies

- |                                   |                                     |
|-----------------------------------|-------------------------------------|
| Reorganized Priorities            | <input checked="" type="checkbox"/> |
| Reallocated resources             | <input type="checkbox"/>            |
| Issued new regulation             | <input type="checkbox"/>            |
| Proposed legislation              | <input type="checkbox"/>            |
| Approved grants or other payments | <input type="checkbox"/>            |
| Other                             | <input checked="" type="checkbox"/> |

**Action Comments**

Findings and recommendations from NPC studies serve as valuable input for government program and policy decision making. Technical data and insights on evolving oil and gas industry trends also serve as valuable input for energy forecasts prepared by the Energy Information Administration, an independent statistical agency of DOE.

**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               | <input type="checkbox"/>            |
| Online Agency Web Site    | <input checked="" type="checkbox"/> |
| Online Committee Web Site | <input checked="" type="checkbox"/> |
| Online GSA FACA Web Site  | <input type="checkbox"/>            |
| Publications              | <input checked="" type="checkbox"/> |
| Other                     | <input type="checkbox"/>            |

**Access Comments**

A comprehensive summary of the NPC, including its purpose, membership and studies, is available at <http://www.npc.org>. Electronic copies of the NPC's reports and supporting materials including topical papers and presentations are also available at <http://www.npc.org>.