

## 2008 Current Fiscal Year Report: Climate Change Science Program Development Advisory Committee

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### 1. Department or Agency

Department of Energy

### 2. Fiscal Year

2008

### 3b. GSA

Committee

No.

### 3. Committee or Subcommittee

Climate Change Science Program

Development Advisory Committee

28517

### 4. Is this New During Fiscal Year?

No

### 5. Current Charter

03/17/2008 03/17/2010

### 6. Expected Renewal Date

09/30/2008

### 7. Expected Term Date

Yes

### 8a. Was Terminated During Fiscal Year?

Yes

### 8b. Specific Termination Authority

08/16/2008

### 8c. Actual Term Date

08/16/2008

### 9. Agency Recommendation for Next Fiscal Year

Terminate

### 10a. Legislation Req to Terminate?

No

### 10b. Legislation Pending?

Agency Authority

### 11. Establishment Authority

AGEN

12. Specific Establishment Authority

### 13. Effective Date

02/10/2006

### 14. Committee Type

Continuing

### 14c. Presidential?

No

15. Description of Committee Scientific Technical Program  
Advisory Board

### 16a. Total Number of Reports 1

16b. Report Date

07/31/2008 Climate Models An Assessment of  
Strengths and Limitations

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
Discussion on how public review comments and comments from CPDAC members have been addressed by the SAP 3.1 author team; seek concurrence on the report.	01/28/2008	01/28/2008

#### Number of Committee Meetings Listed: 1

	Current FY	Next FY
<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>	\$51,000.00	\$0.00
<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	\$0.00
<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>	\$0.00	\$0.00
<b>18b(4). Travel and Per Diem to Non-member Consultants</b>	\$0.00	\$0.00
<b>18c. Other(rents,user charges, graphics, printing, mail, etc.)</b>	\$1,132.00	\$0.00
<b>18d. Total</b>	\$52,132.00	\$0.00
<b>19. Federal Staff Support Years (FTE)</b>	0.40	0.00

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

The Committee has subcommittees of lead author teams for the two Climate Change Synthesis and Assessment Reports that the Committee is charged with developing. The lead authors present draft reports to the committee for discussion, modification and approval. These reports will be sent to the US Climate Change Science Program for consideration as the

following two CCSP Synthesis and Assessment Reports: Report 2.1: Scenarios of Greenhouse Gas Emissions and Atmospheric Concentrations and Review of Integrated Scenario Development and Application. 2.1a: Scenarios of Greenhouse Gas Emissions and Atmospheric Concentrations 2.1b: Review of Integrated Scenario Development and Application Report 3.1: Climate Models: An Assessment of Strengths and Limitations for User Applications

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

The membership includes experts in climate and other environmentally-related scientific research from National Laboratories, industry, universities, and Federal agencies. The composition of the membership reflects the expertise necessary to develop the Synthesis and Assessment Reports 2.1 and 3.1.

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

The full committee meets about 4 times a year. The meetings are very relevant and important to the development of the Synthesis and Assessment Reports. The meetings serve as opportunities for feedback and exchange between the full committee and the subcommittee of lead author teams, who are all members of the Advisory Committee. The Synthesis and Assessment draft reports are discussed, modified and approved or returned to the subcommittee for additional work.

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

No other committee exists within or outside of DOE that has the breadth of membership and

necessary expertise to draft the Synthesis and Assessment Reports 2.1 and 3.1. The committee has insights that provide a sound and broad base for the content of these reports.

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

The full committee meetings are always open to the public and on no occasion have they even been partially closed.

## **21. Remarks**

### **Designated Federal Officer**

Anjuli Bamzai DFO

<b>Committee Members</b>	<b>Start</b>	<b>End</b>	<b>Occupation</b>	<b>Member Designation</b>
Bader, David	03/28/2006	03/28/2008	Lawrence Livermore National Laboratory	Special Government Employee (SGE) Member
Busalacchi, Antonio	03/28/2006	03/28/2008	University of Maryland	Special Government Employee (SGE) Member
Clarke, Leon	03/28/2006	03/28/2008	Pacific Northwest National Laboratory	Special Government Employee (SGE) Member
Covey, Curtis	03/28/2006	03/28/2008	Lawrence Livermore National Laboratory	Special Government Employee (SGE) Member
Edmonds, James	03/28/2006	03/28/2008	Pacific Northwest National Laboratory	Special Government Employee (SGE) Member
Fisher-Vanden, Karen	03/28/2006	03/28/2008	Dartmouth College	Special Government Employee (SGE) Member

Flannery, Brian	03/28/2006	03/28/2008	ExxonMobil Corporation	Special Government Employee (SGE) Member
Gutowski, William	03/28/2006	03/28/2008	Iowa State University	Special Government Employee (SGE) Member
Hawkins, David	03/28/2006	03/28/2008	Natural Resources Defense Council	Special Government Employee (SGE) Member
Held, Isaac	03/28/2006	03/28/2008	National Oceanic and Atmospheric Administration	Regular Government Employee (RGE) Member
Jacoby, Henry	03/28/2006	03/28/2008	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Keith, David	03/28/2006	03/28/2008	University of Calgary	Special Government Employee (SGE) Member
Kunkel, Kenneth	03/28/2006	03/28/2008	Illinois State Water Survey	Special Government Employee (SGE) Member
Lindzen, Richard	03/28/2006	03/28/2008	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Mearns, Linda	03/28/2006	03/28/2008	National Center for Atmospheric Research	Special Government Employee (SGE) Member
Miller, Ronald	03/28/2006	03/28/2008	National Aeronautics and Space Administration	Regular Government Employee (RGE) Member
Parson, Edward	03/28/2006	03/28/2008	University of Michigan	Special Government Employee (SGE) Member

Pitcher, Hugh	03/28/2006	03/28/2008	Pacific Northwest National Laboratory	Special Government Employee (SGE) Member
Pizer, William	03/28/2006	03/28/2008	Resources for the Future	Special Government Employee (SGE) Member
Reilly, John	03/28/2006	03/28/2008	Massachusetts Institute of Technology	Special Government Employee (SGE) Member
Richels, Richard	03/28/2006	03/28/2008	Electric Power Research Institute	Special Government Employee (SGE) Member
Rosenzweig, Cynthia	03/28/2006	03/28/2008	National Aeronautics and Space Administration	Regular Government Employee (RGE) Member
Sorooshian, Soroosh	03/28/2006	03/28/2008	University of California	Special Government Employee (SGE) Member
Tokmakian, Robin	03/28/2006	03/28/2008	Naval Postgraduate School	Regular Government Employee (RGE) Member
Van Sickle-Burkett, Virginia	03/28/2006	03/28/2008	U.S. Geological Survey	Regular Government Employee (RGE) Member
Webster, Mort	03/28/2006	03/28/2008	University of North Carolina	Special Government Employee (SGE) Member
Winkler, Julie	03/28/2006	03/28/2008	Michigan State University	Special Government Employee (SGE) Member
Yohe, Gary	03/28/2006	03/28/2008	Wesleyan University	Special Government Employee (SGE) Member

Zhang,  
Minghua

03/28/2006

03/28/2008

Stony Brook  
University

Special  
Government  
Employee  
(SGE)  
Member

**Number of Committee Members Listed: 29**

### **Narrative Description**

The Climate Change Research Division includes process research and modeling efforts to (1) improve understanding of factors affecting the Earth's radiant-energy balance; (2) predict accurately any global and regional climate change induced by increasing atmospheric concentrations of aerosols and greenhouse gases; (3) quantify sources and sinks of energy-related greenhouse gases, especially carbon dioxide; and (4) improve the scientific basis for assessing both the potential consequences of climatic changes, including the potential ecological, social, and economic implications of human-induced climatic changes caused by increases in greenhouse gases in the atmosphere and the benefits and costs of alternative response options. The research activities represent DOE's contribution to the U.S. Climate Change Science Program (CCSP), a program that integrates federal research on global change and climate change. CCSP is bringing out a suite of 21 "synthesis and assessment" (S&A) products. As a key component of the CCSP Strategic Plan (released July 2003), they integrate research results focused on important science issues and questions frequently raised by decision makers. The S&A products support informed discussion and decisions by policymakers, resource managers, stakeholders, the media, and the general public. They also help define and set the future direction and priorities of the program. The products help meet the requirements of the Global Change Research Act of 1990. The law directs agencies to "produce information readily usable by policymakers attempting to formulate effective strategies for preventing, mitigating, and adapting to the effects of global change" and to undertake periodic scientific assessments. At the request of the DOE, in accordance with the interagency CCSP Guidelines for Producing the CCSP S&A Products, the Climate Change Science Program Product Development Advisory Committee (CPDAC) has been engaged in drafting two S&A Products. Both reports of the

first product (2.1), as well as the second report (3.1) have been completed by the CPDAC. The first product (2.1) consists of two reports, one of which provides updated scenarios of greenhouse gas emissions and concentrations. This report (2.1a) includes: (1) a summary of the scenarios for interested non-specialists; (2) documentation and discussion of the scenarios; and (3) information about the integrated assessment models used to generate the scenarios, including pertinent, aggregate-level, numerical information reported consistently across all scenarios and associated “reference” cases, such as for example, emissions trajectories, energy contributions over time, and population trajectories. The second report (2.1b) is a state-of-the-art review of the development and application of integrated scenarios of greenhouse gas emissions. This report reviews and evaluates how the science and stakeholder communities define, develop, implement, and communicate scenarios in the global climate change context, and how this process might be enhanced or improved. It includes a review of past scenario development and application efforts. The second report (3.1) is an assessment report of climate models, their uses, limitations, sensitivity, feedbacks, and uncertainties.

**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 type="checkbox"/>
Advance in scientific research	<input checked="" 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**

The Committee provided two scientific reports to DOE. These were sent to the National



Scientific and Technology Council (NSTC), CCSP for approval; they constitute two of the 21 CCSP Synthesis and Assessments. The entire suite of 21 reports is intended to satisfy section 106 of the Global Change Research Act of 1990.

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

Checked if Applies

None	<input checked="" 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**

NA

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

0

**Number of Recommendations Comments**

The Committee produced two scientific reports (see Narrative).

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

0%

**% of Recommendations Fully Implemented Comments**

The Committee produced two scientific reports (see Narrative).

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

0%

**% of Recommendations Partially Implemented Comments**

The Committee produced two scientific reports (see Narrative).

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

Yes ☐ No ☐ Not Applicable ☒

**Agency Feedback Comments**

NA

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

Checked if Applies

Reorganized Priorities	<input 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 type="checkbox"/>

**Action Comments**

N/A

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

**Access Comments**

N/A

