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A. AWARDEE ACTION (AWARDEE COMPLETES PART A. 1-5)

1. Document Title: Technical Progress Report: Building Stronger State Energy Partnerships
2. Type of Document: x Technical Progress Report Topical Report Final Technical Report
 Abstract Technical Paper Journal Article Conference Presentation
Other (please specify) _____

3. Date Clearance Needed: N/A

◆4. Results of Review for Possible Inventive Subject Matter:

- a. x No Subject Invention is believed to be disclosed therein.
- b. Describes a possible Subject Invention relating to _____
- i. Awardee Docket No.: _____
- ii. A disclosure of the invention was submitted on _____
- iii. A disclosure of the invention will be submitted by the following date: _____
- iv. A waiver of DOE's patent rights to the awardee: has been granted, has been applied for, or
 will be applied for by the following date: _____

◆5. Signed DS Terry (Awardee) Date 4/10/02

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B. DOE PATENT COUNSEL ACTION

- Patent clearance for release of the above-identified document is granted.
- Other: _____

Signed _____
(Patent Attorney)

Date _____

Must be completed by the awardee.

Technical Progress Report Annual

July 17, 2000 - July 16, 2001

**By David Terry
Issued April 22, 2002**

Award Number DE-FC26-00NT40802

**NASEO
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Abstract

This technical progress report includes an update of the progress during the first year of cooperative agreement DE-FC26-oont40802, Building Stronger State Energy Partnerships with the U.S. Department of Energy. The report also describes the barriers in conduct of the effort, and our assessment of future progress and activities.

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EXECUTIVE SUMMARY

When initiated by the National Association of State Energy Officials (NASEO) and the U.S. Department of Energy's (DOE) Rebuild America Program (RBA), this project—Strengthening the Partnerships Between the State and Territory Energy Offices and the U.S. Department of Energy—was geared toward addressing some project development and communications barriers between the State Energy Offices and the RBA program.

While successful in some states, RBA officials were having difficulty assisting states in forming partnerships with communities and taking advantage of the programs technical assistance and other resources. NASEO's efforts under the project were, in large part, aimed at educating state energy offices about RBA's resources and delivering timely information to help move the program forward by emphasizing the successes of key states and identifying concerns and problems in states beginning to implement RBA activities. This report defines these outreach needs and challenges, the tasks designed to address these issues, and results during the first year of the project.

As contemplated in NASEO's workplan, the approach during the first year of the agreement focuses on working through NASEO's State Energy Committee structure. Support provided under the agreement for tasks one and two during year one was intended to address partnerships in the buildings area. Specifically, NASEO was to work with its buildings committee, various state energy office members, and the Rebuild America program to improve partnership efforts, communications, and effectiveness of these combined efforts.

The approach of to the project included three elements during year one. First, NASEO and its Buildings Committee were to focus on raising awareness and coordination of Rebuild activities. Through education, one-on-one communications, and presentations at NASEO meetings and other events, staff and the committee will assist Rebuild officials in stimulating interest in the program and building greater support among State Energy Office Directors.

Second, NASEO would work to improve the efficiency of America's schools by assisting states and DOE in promoting projects that result in more energy efficient (and clean energy) schools and a better learning environment.

Third, NASEO was to identify opportunities, needs, and priorities related to the emerging public benefit funds / programs operated by many states emerging from utility restructuring. This third activity, while still a high-priority for the state energy offices, has not been funded under this agreement. Thus, no activity will be reported.

The results of the two funded efforts described above are a significant increase in the awareness of RBA resources and assistance, as well as a better understanding of successful approaches to implementing RBA activities.

EXPERIMENTAL

No experiments were conducted this year under this award.

RESULTS AND DISCUSSION

During year one, NASEO completed all work under task one of the statement of work under this agreement, and a significant portion of the work under task two. In general, NASEO was to raise awareness, build commitments, and coordinate efforts among State Energy Offices for the Rebuild America Program and Energy Smart Schools Program. This effort involved four subtasks under task one, as well as the work under task two.

An overview of the tasks and progress are presented below:

The following activities comprise NASEO's Year task one Rebuild America-related work under the five-year NETL agreement. The activities are described based upon the requirements in the statement of work. NASEO has completed all activities except one remaining Energy Smart School Decision Maker Forums (workshops). The workshop will be completed during August or September 2001 in MS.

Task 1 Activities: Rebuild Outreach—Develop and deliver state-based package of educational material on Rebuild America (RA) successes and program information. (completed)

Subtask A: Via the NASEO Buildings Committee, assist Rebuild in communicating with State Energy Directors regarding SEP Special Projects. (completed)
Dedicate portion of web site under buildings to Rebuild America Program. (completed)

Subtask B: Prepare three articles for NASEO's news page (home page). (completed)

Host Regional Rebuild America Roundtable Conference calls. (completed)

Subtask C: Provide feedback and ongoing communication with State Energy Directors from each NASEO region and the Buildings Committee. (completed / ongoing)

Subtask D: Participate in coordination efforts among key Rebuild stakeholders in Washington, DC. (completed / ongoing)

In addition, NASEO completed a significant portion of the work under task two. This task included assisting states in conducting schools workshops and other state outreach and education activities. NASEO worked DOE's Energy Smart Schools and Rebuild America Programs to conduct strategic "Decision-Maker Workshops." In all five workshops were planned under the task for year one. NASEO was able to complete four during the reporting period. The remaining workshop will be completed in the fall of 2001.

Task 2 Activities: Rebuild/Energy Smart Schools

*-NASEO completed workshops in WA, GA, IA, KY.
-one decision maker workshops remaining under year one funding (MS).*

Task 3 Activities

As noted earlier, Task three of the statement of work, Public Benefits Cooperative Activities, was not funded by the Department of Energy during the reporting period. Thus, no activity occurred.

Progress Detail—by Task and Subtask

The following activities comprise NASEO's Year task one Rebuild America-related work under the five-year NETL agreement. The activities are described based upon the requirements in the statement of work. NASEO has completed all activities except one remaining Energy Smart School Decision Maker Forums (workshops). The workshop will be completed during August or September 2001 in MS.

Task 1 Activities, Year 1 (status-completed): Rebuild Outreach— Develop and deliver state-based package of educational material on Rebuild America (RA) successes and program information.

During the period, NASEO conducted work under this ongoing task through one-on-one communications with State Energy Directors, as well as presentations and informational materials. Specifically, NASEO staff assisted in the development of a presentation at the NASEO Annual Meeting. The presentation was delivered by the Rebuild America program manager at the Redondo Beach, California meeting. (Materials and agenda from the meeting are attached.) NASEO also began collecting state success stories from Arizona, South Carolina, and other states. This information was provided to Rebuild America consultants for use in their web site development.

Subtask A: Via the NASEO Buildings Committee, assist Rebuild in communicating with State Energy Directors regarding SEP Special Projects.

All work under Subtask A is complete. NASEO briefed State Energy Office regional representatives from each region on the Rebuild America-related special projects, and the high-level of quality being sought by Rebuild under the program. The briefing occurred in early December 2000 as a part of the meeting of NASEO regional representatives. And, NASEO dedicated a portion of its web site under buildings section to the Rebuild America Program, and NASEO added links to its Buildings Committee web site location to both Rebuild and State Rebuild pages to foster communications and information exchange. (documentation -- http://www.naseo.org/energy_sectors/buildings/default.htm)

Subtask B: Prepare three articles for NASEO's news page (home page) and Host Regional Rebuild America Roundtable Conference calls.

All work under Subtask B is complete. NASEO prepared three articles for the NASEO news page and also developed a list serve electronic communications service to distribute

news. (Sample and news articles are attached.) NASEO also conducted three regional conference calls during the reporting period. The first call occurred on September 19, 2000 and included members of the New England (Boston) Region. Participants were updated on Rebuild activities concerning schools, as well as interaction between RBA and the NASEO Buildings Committee. The second call occurred on September 22, 2000, and included members of the NASEO Buildings Committee and Midwest (Chicago) region. Again the call updated members on Rebuilds services and new schools activities. The third call included buildings committee members and focused on preparations for the committee meeting to be held in February 2001.

Subtask C: Provide feedback and ongoing communication with State Energy Directors from each NASEO region and the Buildings Committee.

All work under subtask C is complete. During the period, NASEO established a NASEO-RBA list serve to foster communications among state and territory energy office and RBA staff on rebuild issues and partnerships. The list serve allows Rebuild America program staff to interact directly with the State Energy Offices and it allows the states to ask Rebuild and buildings related questions of anyone on the list. This activity has resulted in extensive transfer of program and project implementation information in support of objectives of Task 1 and the subtasks (Sample emails are attached.)

In addition, NASEO collected a Rebuild update from South Carolina to demonstrate the good level of data collection (and results) being achieved. The document was shared with state energy offices and RBA staff. (The information is included as an attachment.) NASEO also briefed the NASEO regional representatives and other state energy directors on recent Rebuild America national activities, as well as upcoming events such as the national forum for program managers. The purpose of the briefing was to both inform all the state regional representatives about program changes, particularly in the Rebuild/Energy Smart Schools area, and to encourage directors to support staff members working on RBA related projects in their offices. And, NASEO continued to moderate NASEO-RBA list serve established during the first quarter. (Sample communications are attached.)

Subtask D: Participate in coordination efforts among key Rebuild stakeholders in Washington, DC.

All work under subtask D is complete. NASEO participated in the November 28, 2000, RBA strategic partners meeting held in Washington, DC. The working meeting was designed to identify resources and goals of each partner. NASEO conducted a pre-meeting briefing to better determine priorities to be communicated at the event. NASEO's efforts were recorded in the meeting work session document, which is attached.

Task 2 Activities: Rebuild/Energy Smart Schools

NASEO completed four of five decision maker forums (workshops) under task two during the period. The remaining workshop was delayed due to schedule conflicts

between the state energy office in Mississippi and the state education office (co-hosting the event). Thus, the fifth workshop is scheduled in Mississippi during August/September. The following workshops have been completed:

1. Georgia is in the midst of a school construction boom (\$5 billion over 5 years) and has an opportunity to impact the energy efficiency of these buildings for years to come. The energy office and its partners are offering public school systems a program that includes free energy data analysis and reports, access to technical assistance and participation in energy efficiency demonstration projects. To support this important effort, NASEO, Rebuild America, and other organizations provided assistance for the Greening Georgia Schools event held on March 13, 2001. The meeting included a wide variety of presentations from Georgia energy experts, as well as officials from Rebuild America and NREL. The meeting participants included a diverse mix of school officials, technical staff, design professionals, energy companies, and others.
2. Iowa's Energy Office conducted a forum that built upon their success in delivering the Iowa Energy Bank program to encourage schools to implement new energy saving projects. The meeting was a great success and attendees were engaged in discussions ranging from efficiency financing to geothermal heat pumps to wind energy to new building design.
3. Washington, with limited assistance from NASEO and Energy Smart Schools, conducted a session or track at an important School Facilities Conference. The conference focused on assisting school districts in reducing energy consumption and energy costs. The session included information on Energy Smart Schools and Energy Star Buildings resources.
4. The Kentucky Energy Office, with support from DOE Rebuild America, Energy Smart Schools, and others, conducted a school decision-maker forum on July 24, 2001, in Erlanger Kentucky. The forum-Energy Smart Schools: How to Create and Maintain a Better Learning Environment-included presentations from leading school energy efficiency program specialists, energy technology providers, and others.

Task 3 (N/A – task not funded by DOE)

CONCLUSION

Barriers

In general, the project tasks were completed as originally envisioned in the statement of work with limited challenges. The results of the funded efforts during year one are a significant increase in the awareness of RBA resources and assistance, as well as a better understanding of successful approaches to implementing RBA activities.

Perhaps the greatest difficulty in completing task one was coordination among the many partners, at the national level, in the Rebuild America Program. While coordination

among the strategic partners—a key element of NASEO’s work—was challenging, these partners have great strengths and resources which Rebuild America and the state energy offices are taping to implement energy efficiency projects. For example, NASEO’s work with the National Association of Energy Services Companies and the APPA has led to the identification of new partnership and project opportunities in New York State.

Task two presented greater challenges. While NASEO and Energy Smart School officials anticipated that individual state energy office and education office differences would mean that each workshop conducted would vary, the extent of the variation was greater than anticipated. For examples, some states had good relationships and some track record of success with school decision makers. These states were able to immediately undertake workshops, which delivered substantive project ideas and assistance. Other states were only beginning to build relationships in this area and needed to use the workshops to focus on educating officials about the value of efficiency. This variety means that each workshop requires custom presentations and assistance in its development.

Assessment of Future Activities

NASEO anticipates completion of task two (year one), within the first quarter of year two. Again, the delay in this workshop activity was due to an unforeseen schedule conflict within the host state of Mississippi.

In looking forward to year two activities, NASEO has identified a need to shift the focus of work toward promoting the regional coordination, identification of new buildings sector partners (e.g., colleges and universities), and assisting states in strengthening their Rebuild America programs. This shift has been discussed with Rebuild Officials and is strongly supported. The change in emphasis also meshes well with the year two workplan. NASEO does not foresee any significant deviation in the workplan from the existing agreement under either task one or task two.

Appendix A

Agenda

National Association of State Energy Officials 2000 Annual Meeting

Crowne Plaza Redondo Beach & Marina Hotel, 300 North Harbor Drive, Redondo Beach, California

Sunday, September 10

2:00 p.m. - 3:00 p.m. *Early Registration*

3:00 p.m. - 4:00 p.m. **NASEO Business Meeting and Election of Officers**

4:00 p.m. - 5:30 p.m. **Board of Directors Meeting**

Monday, September 11

8:00 a.m. - 2:00 p.m. *Registration*

7:30 a.m. - 8:15 a.m. *Continental Breakfast*

8:15 a.m. - 8:30 a.m. **Welcome and Opening Remarks**

Presenters: Rich Sedano, Vermont
Bill Keese, California
Frank Bishop, NASEO Executive Director

8:30 a.m. - 9:30 a.m. **State Roundtable on Public Benefits Programs: Ensuring and Managing the Transition of Utility-Operated Programs to State Energy Offices**

Moderator: Fred Hoover, Maryland
Discussion Leaders: Pat Meier, Energy Bureau Director, Division of Energy and Public Benefits
Rich Sedano, Commissioner, Vermont Department of Public Service
Chuck Clinton, Director, District of Columbia Energy Office

9:30 a.m. - 9:45 a.m. *Break*

9:45 a.m. - 11:00 a.m. **State Roundtable on Public Benefits Program (continued): Leveraging Program Solutions for All State and Territory Energy Offices**

Moderator: Brian Henderson, New York
Discussion Leaders: Bill Keese, Chairman, California Energy

Commission
Alexander Mack, Director, Florida Energy Office
Washington State University Representative

- 10:00 a.m. - 10:15 a.m. **Break**
- 10:15 a.m. - 10:45 a.m. **Wind Energy Parks Take Root**
Moderator: Michal Moore, California
Presenters: Larry Bean, Administrator, Energy and Geological
 Resources Division, Iowa Department of Natural
 Resources
 Felix Mariani Guzman, Administrator, Puerto Rico
 Energy Affairs Administration
- 10:45 a.m. - 11:15 a.m. **SEP--(holding for Denver Regional Office)**
Moderator: John Nunely, Wyoming
Presenter: _____, Denver Regional Office,
 U.S. Department of Energy
- 12:00 p.m. - 1:30 p.m. **Luncheon and Keynote Presentations: Energy Policy and the
Next Administration**
Moderator: Frank Bishop, NASEO
Speakers: Representative, Gore Presidential Campaign
 Representative, Bush Presidential Campaign
- 1:45 p.m. - 2:15 p.m. **Progress on the Integration of State and EERE Demonstration
and Deployment Efforts**
Moderator: NASEO Chairman
Speakers: Dan Reicher, Assistant Secretary, Office of Energy
 Efficiency and Renewable Energy
- 2:15 p.m. - 2:45 p.m. **Energy Efficiency Opportunities in the High-Tech Industry**
Moderator: Edward Pinero, Pennsylvania
Presenter: Dale Sartor, Lawrence Berkeley National
 Laboratory
- 3:00 p.m. - 4:00 p.m. **Buildings Committee Meeting**
Chair: Brian Henderson, New York
Vice Chair: Sara Ward, Ohio
- 4:00 p.m. - 5:00 p.m. **Electric and Gas Utility Committee's Public Benefits Task
Force Meeting**
Task Force Chair: _____
- 5:30 p.m. - 7:00 p.m. **Reception: California Vineyards and Pacific Delights**

Wednesday, September 13, 2000

8:00 a.m. - 10:00 a.m. **Registration**

8:30 a.m. - 9:30 a.m.

Chairman's Breakfast

Monitizing Pollution Prevention: An Emission Trader's "Wall Street" Perspective on State Opportunities

Moderator: Chairman, NASEO

Presenter: (get name from iowa)

9:30 a.m. - 9:45 a.m.

Break

9:45 a.m. - 10:15 a.m.

Renewable Convergence: Sun, Wind, and Biomass Move Center Stage Through Green Power and Incentives

Moderator: Michal Moore, California

Presenters: _____

Roya Stanley, State and Local Initiatives Manager,
National Renewable Energy Laboratory

10:15 a.m. - 11:00 a.m.

State Energy and Environmental Air Quality Initiatives: The Future of Combined Energy and Environmental Programs

Moderator: Jeff Genzer, NASEO Counsel

Presenters: Kathleen Hogan, _____, EPA

Chuck Gray, National Association of Regulatory
Utility Commissioners

Bill Becker, STAPPA

10:45 a.m. - 11:30 a.m.

Washington Update

Moderator: Frank Bishop, NASEO

Presenter: Jeff Genzer, NASEO Counsel

Alan Davis, Program Manager, Montana
Department of Environmental Quality

Appendix B

Agenda
Rebuild America Strategic Partner Meeting
November 28, 2001

The Hall of the States
National Conference State Legislature (NCSL)
444 North Capital Street NW
Washington, DC
Conference Room 231
(Walking distance from Union Station Metro Stop -Red Line)

<u>Time</u>	<u>Discussion Items</u>	<u>Leader</u>
8:30 AM	Continental Breakfast	
9:00 AM	Introduction & Host Welcome	Dan Sze/Troy Gagliano
9:15AM	Remarks	Mark Ginsberg
9:35AM	Open Discussion <ul style="list-style-type: none">▪ Quick Strategic Partner inventory	Dan Sze
10:15AM	Break	15-minute break
10:30AM	Rebuild America Program Status <ul style="list-style-type: none">▪ Forum update▪ Sector profiles/clinics▪ Opportunity Center▪ Strategic Partner Update	Dan Sze/Mark Bailey
11:00AM	Sector Discussion: State and Local <ul style="list-style-type: none">▪ NCSL/RBA initiatives▪ Energy/Environmental Integration Project▪ Other opportunities with this sector	Troy Gagliano, NCSL Jeff Genzer Open Discussion
12:00 PM	Catered Lunch	
12:45AM	Sector Discussion: K-12 Schools <ul style="list-style-type: none">▪ RBA/ASBO initiatives▪ Update on Nov. 16 RBA Schools Meeting▪ Modular Classrooms▪ Other Sector activities/opportunities	David Ritchey, Ass. of School Business Officials Judy Smith, Modular Building Institute Open Discussion
1:45PM	Sector Roundtable (Commercial, Public Housing, Higher Ed.) <ul style="list-style-type: none">▪ Other Sector reports	Group
2:45PM	Summary and Agreement on Ongoing Actions <ul style="list-style-type: none">▪ Schedule next meetings▪ Possible Business/Strategic Partners Working Group	Group
3:30 PM	Adjourn	