



STATE OF VERMONT
JOINT FISCAL OFFICE

MEMORANDUM

To: James Reardon, Commissioner of Finance & Management
From: Nathan Lavery, Fiscal Analyst
Date: November 20, 2009
Subject: JFO #2402, #2404, #2405, #2406

No Joint Fiscal Committee member has requested that the following items be held for review:

JFO #2402 — \$500,000 grant from the U.S. Department of Energy to Education Department. These grant funds will be distributed to local school districts for the installation of solar panels.

[JFO received 10/21/09]

JFO #2404 — \$105,876 grant from the Federal Emergency Management Agency (FEMA) to Department of Public Safety. These grant funds will be used to provide financial assistance to implement measures that will permanently reduce or eliminate future damage from natural hazards through safer building practices and improving existing structures.

[JFO received 10/21/09]

JFO #2405 — \$1,000,000 grant from the Federal Emergency Management Agency (FEMA) to Department of Public Safety. These grant funds will be used renovate and equip the Emergency Operations Center (EOC) at Public Safety headquarters in Waterbury.

[JFO received 10/21/09]

JFO #2406 — \$1,770,018 grant from the Center for Disease Control and Prevention to Department of Health. These grant funds will be to establish and maintain a tracking network for obtaining health and environmental data to improve health in communities. **Three (3) limited service position requests are associated with this request.**

[JFO received 10/21/09]

In accordance with 32 V.S.A. §5, the requisite 30 days having elapsed since these items were submitted to the Joint Fiscal Committee, the Governor's approval may now be

considered final. We ask that you inform the Secretary of Administration and your staff of this action.

cc: Armando Vilaseca, Commissioner
Thomas Tremblay, Commissioner
Wendy Davis, Commissioner



STATE OF VERMONT
JOINT FISCAL OFFICE

MEMORANDUM

To: Joint Fiscal Committee Members
From: Nathan Lavery, Fiscal Analyst
Date: October 21, 2009
Subject: Grant Requests

Enclosed please find six (6) requests that the Joint Fiscal Office has received from the administration:

JFO #2401 — Award from the U.S. Internal Revenue Service to Office of the State Treasurer. The American Recovery and Reinvestment Act allocated \$90 million of bonding authority to Vermont for use as Recovery Zone Economic Development Bonds. Acceptance of this request will allow for federal reimbursement to the issuer of 45% of the interest cost of these bonds; the preliminary estimated value of this subsidy is approximately \$9 million. **This award is part of the American Recovery and Reinvestment Act (ARRA) and expedited approval of this item has been requested.** The Joint Fiscal Committee members will be contacted within two weeks with a request to waive the statutory review period and accept this item.

[JFO received 10/21/09]

JFO #2402 — \$500,000 grant from the U.S. Department of Energy to Education Department. These grant funds will be distributed to local school districts for the installation of solar panels.

[JFO received 10/21/09]

JFO #2403 — \$355,435 grant from the Vermont Center for Geographic Information (VCGI) to the Department of Public Service. **These grant funds will be used to fully fund 1.0 FTE position for a three year period** to support the activities of the Vermont Broadband Mapping Initiative. VCGI received funding from the American Recovery and Reinvestment Act to support this project.

[JFO received 10/21/09]

JFO #2404 — \$105,876 grant from the Federal Emergency Management Agency (FEMA) to Department of Public Safety. These grant funds will be used to provide financial assistance to implement measures that will permanently reduce or eliminate future damage from natural hazards through safer building practices and improving existing structures.

[JFO received 10/21/09]

JFO #2405 — \$1,000,000 grant from the Federal Emergency Management Agency (FEMA) to Department of Public Safety. These grant funds will be used renovate and equip the Emergency Operations Center (EOC) at Public Safety headquarters in Waterbury.

[JFO received 10/21/09]

JFO #2406 — \$1,770,018 grant from the Center for Disease Control and Prevention to Department of Health. These grant funds will be to establish and maintain a tracking network for obtaining health and environmental data to improve health in communities. **Three (3) limited service position requests are associated with this request.**

[JFO received 10/21/09]

The Joint Fiscal Office has reviewed these submissions and determined that all appropriate forms bearing the necessary approvals are in order. In accordance with the procedures for processing such requests, we ask you to review the enclosed and notify the Joint Fiscal Office (Nathan Lavery at (802) 828-1488; nlavery@leg.state.vt.us) if you have questions or would like an item held for Joint Fiscal Committee review. Unless we hear from you to the contrary by November 4 we will assume that you agree to consider as final the Governor's acceptance of these requests.

cc: James Reardon, Commissioner
Jeb Spaulding, Treasurer
Armando Vilaseca, Commissioner
David O'Brien, Commissioner
Thomas Tremblay, Commissioner
Wendy Davis, Commissioner



STATE OF VERMONT
JOINT FISCAL OFFICE

MEMORANDUM

To: Representative Johannah Donovan
From: Nathan Lavery, Fiscal Analyst
Date: October 21, 2009
Subject: JFO #2402

Representative Michael Obuchowski asked that I forward to you a copy of the enclosed grant materials and cover memo. He requests your observations regarding the enclosed item.

cc: Rep. Michael Obuchowski
Stephen Klein

STATE OF VERMONT
GRANT ACCEPTANCE FORM

JFO 2402

DEPARTMENT: Education

DATE: September 30, 2009

GRANT/DONATION (brief description and purpose):

This is a pass-through grant from the federal government to local school districts for the installation of photovoltaic solar panels. These panels should reduce fossil fuel based energy consumption and reduce energy costs.

GRANTOR/DONOR: U.S. Department of Energy

GRANT PERIOD: From date signed until no later than June 30, 2011.

AMOUNT/VALUE: \$500,000

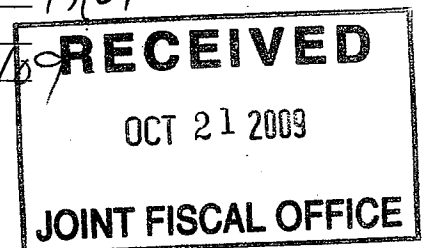
POSITIONS REQUESTED (LIMITED SERVICE): None

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None.

COMMENTS: The Department of Education will distribute the federal funds to the appropriate school districts as directed by the federal government. No state costs or matching state funds are required.

DEPT. FINANCE AND MANAGEMENT:
SECRETARY OF ADMINISTRATION:
GOVERNOR:
SENT TO JOINT FISCAL OFFICE:

(INITIAL) WP 10/1/09
(INITIAL) WP 10/5/09
(INITIAL) _____
(DATE) 10/13/09



STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

BASIC GRANT INFORMATION					
1. Agency:					
2. Department:		Education			
3. Program:		School Construction			
4. Legal Title of Grant:		Sustainable Energy For Vermont Schools			
5. Federal Catalog #:		81.117			
6. Grant/Donor Name and Address: US Department of Energy, Golden Field Office, 1617 Cole Blvd, Golden, CO 80401-3305					
7. Grant Period:		From:	9/1/2009	To:	6/30/2011
8. Purpose of Grant: Fund solar photovoltaic installations at public schools.					
9. Impact on existing program if grant is not Accepted: If the grant is not accepted, public schools will lose this opportunity to offset some fossil-fuel based electricity consumption. More importantly, students will have far fewer hands-on learning experiences with solar energy, and a workforce development tool will be sacrificed. Will not increase local educ spending, because no local match is required to install the systems. Will modestly reduce education spending for electricity.					
10. BUDGET INFORMATION					
	SFY 1	SFY 2	SFY 3	Comments	
Expenditures:	FY 2010	FY 2011	FY		
Personal Services	\$	\$	\$		
Operating Expenses	\$	\$	\$		
Grants	\$143,650	\$356,350	\$	All Fed - no state or local match	
Total	\$143,650	\$356,650	\$		
Revenues:					
State Funds:	\$	\$	\$		
Cash	\$	\$	\$		
In-Kind	\$	\$	\$		
Federal Funds:	\$	\$	\$		
(Direct Costs)	\$143,650	\$356,350	\$		
(Statewide Indirect)	\$	\$	\$		
(Departmental Indirect)	\$	\$	\$		
Other Funds:	\$	\$	\$		
Grant (source)	\$	\$	\$		
Total	\$143,650	\$356,650	\$	total Fed grant \$500,000	
Appropriation No:	5100010000	Amount:	\$143,650		
			\$		
			\$		
			\$		

SEP 10 2 2009

STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

			\$
			\$
			\$
		Total	\$

PERSONAL SERVICE INFORMATION

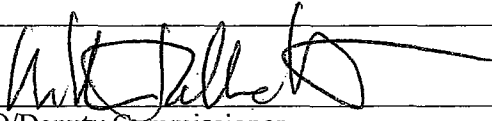
11. Will monies from this grant be used to fund one or more Personal Service Contracts? Yes No
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding process/policy.

Appointing Authority Name: _____ Agreed by: _____ (initial)

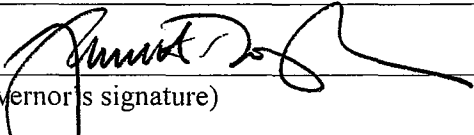
12. Limited Service Position Information:	# Positions	Title
	0	
Total Positions		

12a. Equipment and space for these positions: Is presently available. Can be obtained with available funds.

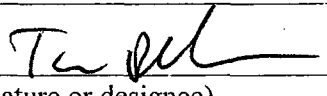
13. AUTHORIZATION AGENCY/DEPARTMENT

I/we certify that no funds beyond basic application preparation and filing costs have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant, unless previous notification was made on Form AA-1PN (if applicable):	Signature: _____	Date: _____
	Title: _____	
	Signature: 	Date: 9/18/2009
	Title: CFO/Deputy Commissioner	

14. ACTION BY GOVERNOR

<input checked="" type="checkbox"/> Check One Box: Accepted		10/9/09
<input type="checkbox"/> Rejected		(Governor's signature)

15. SECRETARY OF ADMINISTRATION

<input type="checkbox"/> Check One Box: Request to JFO		10/5/09
<input type="checkbox"/> Information to JFO		(Secretary's signature or designee)

16. DOCUMENTATION REQUIRED

Required GRANT Documentation

<input type="checkbox"/> Request Memo	<input type="checkbox"/> Notice of Donation (if any)
<input type="checkbox"/> Dept. project approval (if applicable)	<input type="checkbox"/> Grant (Project) Timeline (if applicable)
<input type="checkbox"/> Notice of Award	<input type="checkbox"/> Request for Extension (if applicable)
<input type="checkbox"/> Grant Agreement	<input type="checkbox"/> Form AA-1PN attached (if applicable)
<input type="checkbox"/> Grant Budget	

End Form AA-1

ASSISTANCE AGREEMENT

1. Award No. DE-EE0000385		2. Modification No.	3. Effective Date 09/01/2009	4. CFDA No. 81.117
5. Awarded To DEPT OF EDUCATION VERMONT Attn: KATHY FLANAGAN 120 STATE STREET MONTPELIER VT 056202501		6. Sponsoring Office Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401		7. Period of Performance 09/01/2009 through 06/30/2011
8. Type of Agreement <input checked="" type="checkbox"/> Grant <input type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other	9. Authority 109-58, Energy Policy Act (2005)		10. Purchase Request or Funding Document No. 09EE003763	
11. Remittance Address DEPT OF EDUCATION VERMONT Attn: KATHY FLANAGAN 120 STATE STREET MONTPELIER VT 056202501		12. Total Amount Govt. Share: \$500,000.00 Cost Share : \$0.00 Total : \$500,000.00		13. Funds Obligated This action: \$143,650.00 Total : \$143,650.00
14. Principal Investigator Cathy Hilgendorf Phone: 802-828-5402		15. Program Manager Brian Christopher Hunter Phone: 303-275-4934		16. Administrator Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393
17. Submit Payment Requests To		18. Paying Office		19. Submit Reports To See Attachment 3
20. Accounting and Appropriation Data States & Municipalities				
21. Research Title and/or Description of Project SUSTAINABLE ENERGY FOR VERMONT SCHOOLS				
For the Recipient		For the United States of America		
22. Signature of Person Authorized to Sign		25. Signature of Grants/Agreements Officer <i>Andrea K. Lucero</i>		
23. Name and Title		24. Date Signed	26. Name of Officer Andrea K. Lucero	27. Date Signed 09/11/2009

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE OF
	DE-EE0000385	2 3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>DUNS Number: 884902701</p> <p>Electronic signature or signatures as used in this document means a method of signing an electronic message that--</p> <p>(A) Identifies and authenticates a particular person as the source of the electronic message;</p> <p>(B) Indicates such person's approval of the information contained in the electronic message; and,</p> <p>(C) Submission via FedConnect constitutes electronically signed documents.</p> <p>In addition to this Assistance Agreement, this award consists of the items listed in the Special Terms and Conditions, Provision 2, Award Agreement Terms and Conditions.</p> <p>DOE Award Administrator: Diana Martinez E-mail: diana.martinez@go.doe.gov Phone: 303-275-4939</p> <p>DOE Project Officer: Brian Hunter E-mail: brian.hunter@go.doe.gov Phone: 303-275-4934</p> <p>Recipient Business Officer: William Talbott E-mail: bill.talbott@state.vt.us Phone: 802-828-0470</p> <p>Recipient Principal Investigator: Cathy Hilgendorf E-mail: cathy.hilgendorf@state.vt.us Phone: 802-828-5402</p> <p>ASAP: Yes Extent Competed: NOT COMPETED Delivery Location Code: 03601 Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393</p> <p>Payment: OR for Golden U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 4517 Oak Ridge TN 37831</p> <p>Continued ...</p>				

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	DE-EE0000385	3	3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Fund: 05458 Appr Year: 2009 Allottee: 31 Report Entity: 200835 Object Class: 41020 Program: 1005244 Project: 0000000 WFO: 0000000 Local Use: 0000000				

**U.S. Department of Energy
 FEDERAL ASSISTANCE REPORTING CHECKLIST
 AND INSTRUCTIONS**

1. Identification Number: DE-EE0000385.000		2. Program/Project Title: Sustainable Energy for Vermont Schools																
3. Recipient: Vermont Department of Education																		
4. Reporting Requirements:		Frequency	No. of Copies															
A. MANAGEMENT REPORTING <input checked="" type="checkbox"/> Progress Report <input checked="" type="checkbox"/> Special Status Report (see special instructions)		F Q A	https://www.eere-pmc.energy.gov/SubmitReports.aspx															
B. SCIENTIFIC/TECHNICAL REPORTING (Reports/Products must be submitted with appropriate DOE F 241. The forms are available at www.osti.gov/mlink) <table border="0" style="width:100%"> <tr> <td style="width:60%">Report/Product</td> <td style="width:20%">Form</td> <td style="width:20%"></td> </tr> <tr> <td><input type="checkbox"/> Final Scientific Report</td> <td>DOE F 241.3</td> <td>http://www.osti.gov/mlink-2413</td> </tr> <tr> <td><input type="checkbox"/> Conference papers/proceedings*</td> <td>DOE F 241.3</td> <td>http://www.osti.gov/mlink-2413</td> </tr> <tr> <td><input type="checkbox"/> Software/Manual</td> <td>DOE F 241.4</td> <td>http://www.osti.gov/estsc/241-4pre.jsp</td> </tr> <tr> <td><input type="checkbox"/> Other (see special instructions)</td> <td>DOE F 241.3</td> <td></td> </tr> </table> * Scientific and technical conferences only		Report/Product	Form		<input type="checkbox"/> Final Scientific Report	DOE F 241.3	http://www.osti.gov/mlink-2413	<input type="checkbox"/> Conference papers/proceedings*	DOE F 241.3	http://www.osti.gov/mlink-2413	<input type="checkbox"/> Software/Manual	DOE F 241.4	http://www.osti.gov/estsc/241-4pre.jsp	<input type="checkbox"/> Other (see special instructions)	DOE F 241.3			
Report/Product	Form																	
<input type="checkbox"/> Final Scientific Report	DOE F 241.3	http://www.osti.gov/mlink-2413																
<input type="checkbox"/> Conference papers/proceedings*	DOE F 241.3	http://www.osti.gov/mlink-2413																
<input type="checkbox"/> Software/Manual	DOE F 241.4	http://www.osti.gov/estsc/241-4pre.jsp																
<input type="checkbox"/> Other (see special instructions)	DOE F 241.3																	
C. FINANCIAL REPORTING <input checked="" type="checkbox"/> SF-425, Federal Financial Report		FQ	https://www.eere-pmc.energy.gov/SubmitReports.aspx															
D. CLOSEOUT REPORTING <input type="checkbox"/> Patent Certification <input checked="" type="checkbox"/> Property Certification <input type="checkbox"/> Other (see Special Instructions)		F	https://www.eere-pmc.energy.gov/SubmitReports.aspx															
E. OTHER REPORTING <input type="checkbox"/> Annual Indirect Cost Proposal <input type="checkbox"/> Annual Inventory of Federally Owned Property, If Any <input type="checkbox"/> Other (see special instructions)																		
FREQUENCY CODES AND DUE DATES: A - Within 5 calendar days after events or as specified. F - Final; 90 calendar days after expiration or termination of the award. Y - Yearly; 90 days after the end of the reporting period. S - Semiannually; within 30 days after end of the reporting period. Q - Quarterly; within 30 days after end of the reporting period.																		
5. Special Instructions: The forms identified in the checklist are available at http://management.energy.gov/business_doe/business_forms.htm .																		



State of Vermont
Vermont Department of Education
120 State Street
Montpelier, VT 05620-2501

Summer 2009 – Fall 2010



Solar in Schools

To: All Interested Parties, Especially Teachers!
From: Cathy Hilgendorf, School Construction Coordinator
Tel: 802-828-5402

Upon completion of the award process through the US Department of Energy, the Vermont Department of Education will offer Vermont public schools the opportunity to compete to become one of ten schools hosting **solar power educational programs** for students, staff, and community members. It is our intention to ultimately **fund the installation of solar photovoltaic systems** at school sites, and that these small-scale projects will be at the center of some exciting K-12 cross-discipline curriculum modules, teacher professional development, and workforce development activities.

By offsetting a modest amount of fossil-fuel-generated electricity, this project will add a green component to school buildings. More importantly, it will train people in solar power technology, strengthen science curricula, and provide another opportunity for project-based, hands-on learning. Ideally, the funds will be granted to teams of elementary and middle schools, high schools, and career and technical centers collaborating to bring a continuum of educational opportunities to their communities.

One possible example of a successful proposal:

Three instructors from Model Technical Center (MTC) construction and engineering programs and four teachers at Hypothetical High School (HHS) collaborate with a challenge for their students. Math and science students determine the amount of electricity that would be generated by installing a 5kW solar photovoltaic array on HHS and project the annual savings in both dollars and carbon emissions. MTC architecture and engineering students design the installation for optimum performance and ease of maintenance, including an interactive education center in the school lobby tied to the solar photovoltaic system with real-time metering. The company hired to install the system allows MTC construction students to participate, other students put together a solar power curriculum module for the nearby elementary school, and the local community access television station uses media and communications students to document the project. Outcomes: the school community has a renewable energy system and solar power has been demystified for dozens of tomorrow's citizens.

I'm sure many other creative models will be developed, and there will be more information about the competition at the start of the 2009/10 school year, with proposals due to the department in December 2009. Each competitive grant will be in the \$50,000 range, enough to cover the equipment and installation of a small solar photovoltaic system in most cases. No "match"

contribution will be required, although districts may choose to increase the size and scope of their projects beyond what this grant will cover. Most districts will need to seek out other partners in order to put together a strong proposal, such as the opportunities for professional development for instructors through Vermont Energy Education Program (VEEP). VEEP has solar education modules for elementary and middle grades at very low cost to districts.

Project Timeframe:

April 2009 – Senator Bernie Sanders notifies VT Department of Education (VT DOE) of federal budget earmark for Solar in Schools (This is not ARRA money).

May 2009 - VT DOE completes application with US Dept. of Energy (US DoEn).

June through August 2009 – US DoEn and VT DOE set up federal grant parameters. State of Vermont reviews and accepts terms of federal funds.

Curriculum coordinators, administrators, and educators plan to bring solar power and solar education to a broad base of students. 2009/10 curricula incorporates solar technology elements. Schools are encouraged to start professional development and curriculum enhancement in advance of the competition for construction funds.

September/October 2009 – VT DOE distributes grant details and federal requirements to school administrators and business managers. Teams designate a point person and put together a proposal.

December 2009 – proposals due to VT DOE. Proposals will be reviewed and awards will be announced.

Possible Timeframes for Construction: In some proposals, schools may use the 2009/2010 school year for students to plan and design the system, leaving the bidding and construction for summer/fall 2010, followed by more curriculum links after construction. Other schools may propose projects which accelerate the design and construction during fall 2009/spring 2010, with the majority of the curriculum pieces fitting in after the solar panels are on the building. All proposals should anticipate completion of installation before June 30, 2011.

Proposal Notes: Due to theft and vandalism concerns, and to minimize permitting issues with ground disturbance, building-mounted systems are encouraged and ground-mounted systems are discouraged. The use of federal funds for this project triggers the Davis-Bacon Wage Act, which should be considered in budgeting and bidding.



Watch the Vermont Dept. of Education Weekly Field Memos for further details!

STATE OF VERMONT
GRANT ACCEPTANCE FORM

JFO 2402

DEPARTMENT: Education

DATE: September 30, 2009

GRANT/DONATION (brief description and purpose):

This is a pass-through grant from the federal government to local school districts for the installation of photovoltaic solar panels. These panels should reduce fossil fuel based energy consumption and reduce energy costs.

GRANTOR/DONOR: U.S. Department of Energy

GRANT PERIOD: From date signed until no later than June 30, 2011.

AMOUNT/VALUE: \$500,000

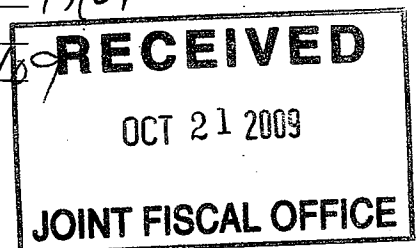
POSITIONS REQUESTED (LIMITED SERVICE): None

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None.

COMMENTS: The Department of Education will distribute the federal funds to the appropriate school districts as directed by the federal government. No state costs or matching state funds are required.

DEPT. FINANCE AND MANAGEMENT:
SECRETARY OF ADMINISTRATION:
GOVERNOR:
SENT TO JOINT FISCAL OFFICE:

(INITIAL) 10/1/09
(INITIAL) W/S/09
(INITIAL) _____
(DATE) 10/13/09



STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

BASIC GRANT INFORMATION				
1. Agency:				
2. Department:		Education		
3. Program:		School Construction		
4. Legal Title of Grant:		Sustainable Energy For Vermont Schools		
5. Federal Catalog #:		81.117		
6. Grant/Donor Name and Address: US Department of Energy, Golden Field Office, 1617 Cole Blvd, Golden, CO 80401-3305				
7. Grant Period:		From: 9/1/2009	To: 6/30/2011	
8. Purpose of Grant: Fund solar photovoltaic installations at public schools.				
9. Impact on existing program if grant is not Accepted: If the grant is not accepted, public schools will lose this opportunity to offset some fossil-fuel based electricity consumption. More importantly, students will have far fewer hands-on learning experiences with solar energy, and a workforce development tool will be sacrificed. Will not increase local educ spending, because no local match is required to install the systems. Will modestly reduce education spending for electricity.				
10. BUDGET INFORMATION				
	SFY 1	SFY 2	SFY 3	Comments
Expenditures:	FY 2010	FY 2011	FY	
Personal Services	\$	\$	\$	
Operating Expenses	\$	\$	\$	
Grants	\$143,650	\$356,350	\$	All Fed - no state or local match
Total	\$143,650	\$356,650	\$	
Revenues:				
State Funds:	\$	\$	\$	
Cash	\$	\$	\$	
In-Kind	\$	\$	\$	
Federal Funds:	\$	\$	\$	
(Direct Costs)	\$143,650	\$356,350	\$	
(Statewide Indirect)	\$	\$	\$	
(Departmental Indirect)	\$	\$	\$	
Other Funds:	\$	\$	\$	
Grant (source)	\$	\$	\$	
Total	\$143,650	\$356,650	\$	total Fed grant \$500,000
Appropriation No:	5100010000	Amount:	\$143,650	
			\$	
			\$	
			\$	

SEP 1 2 2009

STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

			\$
			\$
			\$
		Total	\$

PERSONAL SERVICE INFORMATION

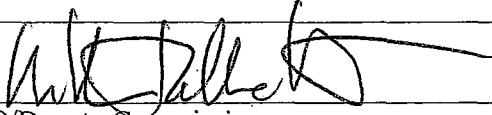
11. Will monies from this grant be used to fund one or more Personal Service Contracts? Yes No
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding process/policy.

Appointing Authority Name: _____ Agreed by: _____ (initial)

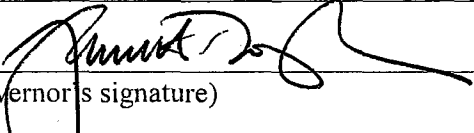
12. Limited Service Position Information:	# Positions	Title
	0	
Total Positions		

12a. Equipment and space for these positions: Is presently available. Can be obtained with available funds.

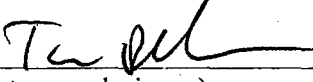
13. AUTHORIZATION AGENCY/DEPARTMENT

I/we certify that no funds beyond basic application preparation and filing costs have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant, unless previous notification was made on Form AA-1PN (if applicable):	Signature:	Date:
	Title:	
	Signature: 	Date: 9/18/2009
	Title: CFO/Deputy Commissioner	

14. ACTION BY GOVERNOR

<input checked="" type="checkbox"/>	Check One Box: Accepted		10/9/09
<input type="checkbox"/>	Rejected		
		(Governor's signature)	Date:

15. SECRETARY OF ADMINISTRATION

<input type="checkbox"/>	Check One Box: Request to JFO		10/5/09
<input type="checkbox"/>	Information to JFO		
		(Secretary's signature or designee)	Date:

16. DOCUMENTATION REQUIRED

Required GRANT Documentation

<input type="checkbox"/> Request Memo	<input type="checkbox"/> Notice of Donation (if any)
<input type="checkbox"/> Dept. project approval (if applicable)	<input type="checkbox"/> Grant (Project) Timeline (if applicable)
<input type="checkbox"/> Notice of Award	<input type="checkbox"/> Request for Extension (if applicable)
<input type="checkbox"/> Grant Agreement	<input type="checkbox"/> Form AA-1PN attached (if applicable)
<input type="checkbox"/> Grant Budget	

End Form AA-1

ASSISTANCE AGREEMENT

1. Award No. DE-EE0000385		2. Modification No.	3. Effective Date 09/01/2009	4. CFDA No. 81.117
5. Awarded To DEPT OF EDUCATION VERMONT Attn: KATHY FLANAGAN 120 STATE STREET MONTPELIER VT 056202501		6. Sponsoring Office Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401		7. Period of Performance 09/01/2009 through 06/30/2011
8. Type of Agreement <input checked="" type="checkbox"/> Grant <input type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other	9. Authority 109-58, Energy Policy Act (2005)		10. Purchase Request or Funding Document No. 09EE003763	
11. Remittance Address DEPT OF EDUCATION VERMONT Attn: KATHY FLANAGAN 120 STATE STREET MONTPELIER VT 056202501		12. Total Amount Govt. Share: \$500,000.00 Cost Share : \$0.00 Total : \$500,000.00		13. Funds Obligated This action: \$143,650.00 Total : \$143,650.00
14. Principal Investigator Cathy Hilgendorf Phone: 802-828-5402		15. Program Manager Brian Christopher Hunter Phone: 303-275-4934		16. Administrator Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393
17. Submit Payment Requests To		18. Paying Office		19. Submit Reports To See Attachment 3
20. Accounting and Appropriation Data States & Municipalities				
21. Research Title and/or Description of Project SUSTAINABLE ENERGY FOR VERMONT SCHOOLS				
For the Recipient			For the United States of America	
22. Signature of Person Authorized to Sign			25. Signature of Grants/Agreements Officer <i>Andrea K. Lucero</i>	
23. Name and Title		24. Date Signed	26. Name of Officer Andrea K. Lucero	27. Date Signed 09/11/2009

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
	DE-EE0000385	2	3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>DUNS Number: 884902701</p> <p>Electronic signature or signatures as used in this document means a method of signing an electronic message that--</p> <p>(A) Identifies and authenticates a particular person as the source of the electronic message;</p> <p>(B) Indicates such person's approval of the information contained in the electronic message; and,</p> <p>(C) Submission via FedConnect constitutes electronically signed documents.</p> <p>In addition to this Assistance Agreement, this award consists of the items listed in the Special Terms and Conditions, Provision 2, Award Agreement Terms and Conditions.</p> <p>DOE Award Administrator: Diana Martinez E-mail: diana.martinez@go.doe.gov Phone: 303-275-4939</p> <p>DOE Project Officer: Brian Hunter E-mail: brian.hunter@go.doe.gov Phone: 303-275-4934</p> <p>Recipient Business Officer: William Talbott E-mail: bill.talbott@state.vt.us Phone: 802-828-0470</p> <p>Recipient Principal Investigator: Cathy Hilgendorf E-mail: cathy.hilgendorf@state.vt.us Phone: 802-828-5402</p> <p>ASAP: Yes Extent Competed: NOT COMPETED Delivery Location Code: 03601 Golden Field Office U.S. Department of Energy Golden Field Office 1617 Cole Blvd. Golden CO 80401-3393</p> <p>Payment: OR for Golden U.S. Department of Energy Oak Ridge Financial Service Center P.O. Box 4517 Oak Ridge TN 37831</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-EE0000385

PAGE OF
3 | 3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Fund: 05458 Appr Year: 2009 Allottee: 31 Report Entity: 200835 Object Class: 41020 Program: 1005244 Project: 0000000 WFO: 0000000 Local Use: 0000000				

**U.S. Department of Energy
FEDERAL ASSISTANCE REPORTING CHECKLIST
AND INSTRUCTIONS**

1. Identification Number: DE -EE0000385.000		2. Program/Project Title: Sustainable Energy for Vermont Schools	
3. Recipient: Vermont Department of Education			
4. Reporting Requirements:		Frequency	No. of Copies
A. MANAGEMENT REPORTING <input checked="" type="checkbox"/> Progress Report <input checked="" type="checkbox"/> Special Status Report (see special instructions)		F Q A	https://www.eere-pmc.energy.gov/SubmitReports.aspx
B. SCIENTIFIC/TECHNICAL REPORTING (Reports/Products must be submitted with appropriate DOE F 241. The forms are available at www.osti.gov/elink) Report/Product Form <input type="checkbox"/> Final Scientific Report DOE F 241.3 <input type="checkbox"/> Conference papers/proceedings* DOE F 241.3 <input type="checkbox"/> Software/Manual DOE F 241.4 <input type="checkbox"/> Other (see special instructions) DOE F 241.3 <i>* Scientific and technical conferences only</i>			http://www.osti.gov/elink-2413 http://www.osti.gov/elink-2413 http://www.osti.gov/estsc/241-4pre.jsp
C. FINANCIAL REPORTING <input checked="" type="checkbox"/> SF-425, Federal Financial Report		FQ	https://www.eere-pmc.energy.gov/SubmitReports.aspx
D. CLOSEOUT REPORTING <input type="checkbox"/> Patent Certification <input checked="" type="checkbox"/> Property Certification <input type="checkbox"/> Other (see Special Instructions)		F	https://www.eere-pmc.energy.gov/SubmitReports.aspx
E. OTHER REPORTING <input type="checkbox"/> Annual Indirect Cost Proposal <input type="checkbox"/> Annual Inventory of Federally Owned Property, If Any <input type="checkbox"/> Other (see special instructions)			
FREQUENCY CODES AND DUE DATES: A - Within 5 calendar days after events or as specified. F - Final, 90 calendar days after expiration or termination of the award. Y - Yearly; 90 days after the end of the reporting period. S - Semiannually; within 30 days after end of the reporting period. Q - Quarterly; within 30 days after end of the reporting period.			
5. Special Instructions: The forms identified in the checklist are available at http://management.energy.gov/business_doe/business_forms.htm .			



State of Vermont
Vermont Department of Education
120 State Street
Montpelier, VT 05620-2501

Summer 2009 – Fall 2010



Solar in Schools

To: All Interested Parties, Especially Teachers!
From: Cathy Hilgendorf, School Construction Coordinator
Tel: 802-828-5402

Upon completion of the award process through the US Department of Energy, the Vermont Department of Education will offer Vermont public schools the opportunity to compete to become one of ten schools hosting **solar power educational programs** for students, staff, and community members. It is our intention to ultimately **fund the installation of solar photovoltaic systems** at school sites, and that these small-scale projects will be at the center of some exciting K-12 cross-discipline curriculum modules, teacher professional development, and workforce development activities.

By offsetting a modest amount of fossil-fuel-generated electricity, this project will add a green component to school buildings. More importantly, it will train people in solar power technology, strengthen science curricula, and provide another opportunity for project-based, hands-on learning. Ideally, the funds will be granted to teams of elementary and middle schools, high schools, and career and technical centers collaborating to bring a continuum of educational opportunities to their communities.

One possible example of a successful proposal:

Three instructors from Model Technical Center (MTC) construction and engineering programs and four teachers at Hypothetical High School (HHS) collaborate with a challenge for their students. Math and science students determine the amount of electricity that would be generated by installing a 5kW solar photovoltaic array on HHS and project the annual savings in both dollars and carbon emissions. MTC architecture and engineering students design the installation for optimum performance and ease of maintenance, including an interactive education center in the school lobby tied to the solar photovoltaic system with real-time metering. The company hired to install the system allows MTC construction students to participate, other students put together a solar power curriculum module for the nearby elementary school, and the local community access television station uses media and communications students to document the project. Outcomes: the school community has a renewable energy system and solar power has been demystified for dozens of tomorrow's citizens.

I'm sure many other creative models will be developed, and there will be more information about the competition at the start of the 2009/10 school year, with proposals due to the department in December 2009. Each competitive grant will be in the \$50,000 range, enough to cover the equipment and installation of a small solar photovoltaic system in most cases. No "match"

contribution will be required, although districts may choose to increase the size and scope of their projects beyond what this grant will cover. Most districts will need to seek out other partners in order to put together a strong proposal, such as the opportunities for professional development for instructors through Vermont Energy Education Program (VEEP). VEEP has solar education modules for elementary and middle grades at very low cost to districts.

Project Timeframe:

April 2009 – Senator Bernie Sanders notifies VT Department of Education (VT DOE) of federal budget earmark for Solar in Schools (This is not ARRA money).

May 2009 - VT DOE completes application with US Dept. of Energy (US DoEn).

June through August 2009 – US DoEn and VT DOE set up federal grant parameters. State of Vermont reviews and accepts terms of federal funds.

Curriculum coordinators, administrators, and educators plan to bring solar power and solar education to a broad base of students. 2009/10 curricula incorporates solar technology elements. Schools are encouraged to start professional development and curriculum enhancement in advance of the competition for construction funds.

September/October 2009 – VT DOE distributes grant details and federal requirements to school administrators and business managers. Teams designate a point person and put together a proposal.

December 2009 – proposals due to VT DOE. Proposals will be reviewed and awards will be announced.

Possible Timeframes for Construction: In some proposals, schools may use the 2009/2010 school year for students to plan and design the system, leaving the bidding and construction for summer/fall 2010, followed by more curriculum links after construction. Other schools may propose projects which accelerate the design and construction during fall 2009/spring 2010, with the majority of the curriculum pieces fitting in after the solar panels are on the building. All proposals should anticipate completion of installation before June 30, 2011.

Proposal Notes: Due to theft and vandalism concerns, and to minimize permitting issues with ground disturbance, building-mounted systems are encouraged and ground-mounted systems are discouraged. The use of federal funds for this project triggers the Davis-Bacon Wage Act, which should be considered in budgeting and bidding.



Watch the Vermont Dept. of Education Weekly Field Memos for further details!

STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

BASIC GRANT INFORMATION				
1. Agency:				
2. Department:		Education		
3. Program:		School Construction		
4. Legal Title of Grant:		Sustainable Energy For Vermont Schools		
5. Federal Catalog #:		81.117		
6. Grant/Donor Name and Address: US Department of Energy, Golden Field Office, 1617 Cole Blvd, Golden, CO 80401-3305				
7. Grant Period:		From:	9/1/2009	To: 6/30/2011
8. Purpose of Grant: Fund solar photovoltaic installations at public schools.				
9. Impact on existing program if grant is not Accepted: If the grant is not accepted, public schools will lose this opportunity to offset some fossil-fuel based electricity consumption. More importantly, students will have far fewer hands-on learning experiences with solar energy, and a workforce development tool will be sacrificed. Will not increase local educ spending, because no local match is required to install the systems. Will modestly reduce education spending for electricity.				
10. BUDGET INFORMATION				
	SFY 1	SFY 2	SFY 3	Comments
Expenditures:	FY 2010	FY 2011	FY	
Personal Services	\$	\$	\$	
Operating Expenses	\$	\$	\$	
Grants	\$143,650	\$356,350	\$	All Fed - no state or local match
Total	\$143,650	\$356,650	\$	
Revenues:				
State Funds:	\$	\$	\$	
Cash	\$	\$	\$	
In-Kind	\$	\$	\$	
Federal Funds:	\$	\$	\$	
(Direct Costs)	\$143,650	\$356,350	\$	
(Statewide Indirect)	\$	\$	\$	
(Departmental Indirect)	\$	\$	\$	
Other Funds:	\$	\$	\$	
Grant (source)	\$	\$	\$	
Total	\$143,650	\$356,650	\$	total Fed grant \$500,000
Appropriation No:	5100010000		Amount:	\$143,650
				\$
				\$
				\$

SEP 24 2009

STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

		\$
		\$
		\$
	Total	\$

PERSONAL SERVICE INFORMATION

11. Will monies from this grant be used to fund one or more Personal Service Contracts? Yes No
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding process/policy.
 Appointing Authority Name: _____ Agreed by: _____ (initial)

12. Limited Service Position Information:	# Positions	Title
	0	
Total Positions		

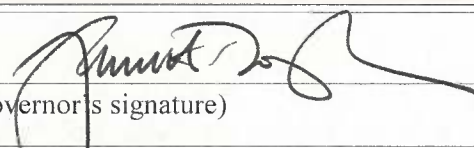
12a. Equipment and space for these positions: Is presently available. Can be obtained with available funds.

13. AUTHORIZATION AGENCY/DEPARTMENT

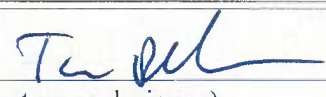
I/we certify that no funds beyond basic application preparation and filing costs have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant, unless previous notification was made on Form AA-1PN (if applicable):

Signature:	Date:
Title:	
Signature: 	Date: 9/18/2009
Title: CFO/Deputy Commissioner	

14. ACTION BY GOVERNOR

<input checked="" type="checkbox"/> Check One Box: Accepted		Date: 10/9/09
<input type="checkbox"/> Rejected		
(Governor's signature)		Date:

15. SECRETARY OF ADMINISTRATION

<input type="checkbox"/> Check One Box: Request to JFO		Date: 10/5/09
<input type="checkbox"/> Information to JFO		
(Secretary's signature or designee)		Date:

16. DOCUMENTATION REQUIRED

Required GRANT Documentation	
<input type="checkbox"/> Request Memo	<input type="checkbox"/> Notice of Donation (if any)
<input type="checkbox"/> Dept. project approval (if applicable)	<input type="checkbox"/> Grant (Project) Timeline (if applicable)
<input type="checkbox"/> Notice of Award	<input type="checkbox"/> Request for Extension (if applicable)
<input type="checkbox"/> Grant Agreement	<input type="checkbox"/> Form AA-1PN attached (if applicable)
<input type="checkbox"/> Grant Budget	

End Form AA-1

STATE OF VERMONT
GRANT ACCEPTANCE FORM

JFO 2402

DEPARTMENT: Education

DATE: September 30, 2009

GRANT/DONATION (brief description and purpose):

This is a pass-through grant from the federal government to local school districts for the installation of photovoltaic solar panels. These panels should reduce fossil fuel based energy consumption and reduce energy costs.

GRANTOR/DONOR: U.S. Department of Energy

GRANT PERIOD: From date signed until no later than June 30, 2011.

AMOUNT/VALUE: \$500,000

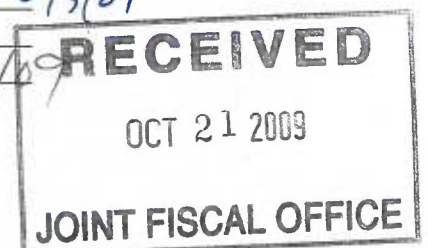
POSITIONS REQUESTED (LIMITED SERVICE): None

ANY ON-GOING, LONG-TERM COSTS TO THE STATE: None.

COMMENTS: The Department of Education will distribute the federal funds to the appropriate school districts as directed by the federal government. No state costs or matching state funds are required.

DEPT. FINANCE AND MANAGEMENT:
SECRETARY OF ADMINISTRATION:
GOVERNOR:
SENT TO JOINT FISCAL OFFICE:

(INITIAL) 10/1/09
(INITIAL) WP 10/5/09
(INITIAL) _____
(DATE) 10/13/09



STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

BASIC GRANT INFORMATION				
1. Agency:				
2. Department:	Education			
3. Program:	School Construction			
4. Legal Title of Grant:	Sustainable Energy For Vermont Schools			
5. Federal Catalog #:	81.117			
6. Grant/Donor Name and Address:				
US Department of Energy, Golden Field Office, 1617 Cole Blvd, Golden, CO 80401-3305				
7. Grant Period:	From:	9/1/2009	To:	6/30/2011
8. Purpose of Grant:				
Fund solar photovoltaic installations at public schools.				
9. Impact on existing program if grant is not Accepted:				
If the grant is not accepted, public schools will lose this opportunity to offset some fossil-fuel based electricity consumption. More importantly, students will have far fewer hands-on learning experiences with solar energy, and a workforce development tool will be sacrificed. Will not increase local educ spending, because no local match is required to install the systems. Will modestly reduce education spending for electricity.				
10. BUDGET INFORMATION				
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(Departmental Indirect)	\$	\$	\$	
Other Funds:	\$	\$	\$	
Grant (source)	\$	\$	\$	
Total	\$143,650	\$356,650	\$	total Fed grant \$500,000
Appropriation No:	5100010000	Amount:	\$143,650	
			\$	
			\$	
			\$	

9/1/09 2:20:09

STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

			\$
			\$
			\$
		Total	\$

PERSONAL SERVICE INFORMATION

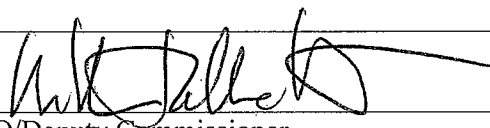
11. Will monies from this grant be used to fund one or more Personal Service Contracts? Yes No
 If "Yes", appointing authority must initial here to indicate intent to follow current competitive bidding process/policy.

Appointing Authority Name: _____ Agreed by: _____ (initial)

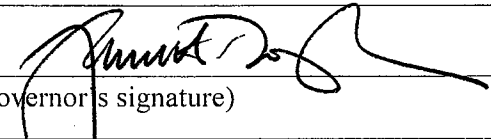
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	0	
Total Positions		

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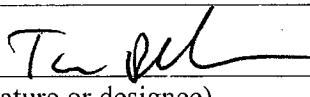
13. AUTHORIZATION AGENCY/DEPARTMENT

I/we certify that no funds beyond basic application preparation and filing costs have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant, unless previous notification was made on Form AA-1PN (if applicable):	Signature:	Date:
	Title:	
	Signature: 	Date: 9/18/2009
	Title: CFO/Deputy Commissioner	

14. ACTION BY GOVERNOR

<input checked="" type="checkbox"/> Check One Box: Accepted	 (Governor's signature)	10/9/09
<input type="checkbox"/> Rejected		Date:

15. SECRETARY OF ADMINISTRATION

<input type="checkbox"/> Check One Box: Request to JFO	 (Secretary's signature or designee)	10/5/09
<input type="checkbox"/> Information to JFO		Date:

16. DOCUMENTATION REQUIRED

Required GRANT Documentation

<input type="checkbox"/> Request Memo	<input type="checkbox"/> Notice of Donation (if any)
<input type="checkbox"/> Dept. project approval (if applicable)	<input type="checkbox"/> Grant (Project) Timeline (if applicable)
<input type="checkbox"/> Notice of Award	<input type="checkbox"/> Request for Extension (if applicable)
<input type="checkbox"/> Grant Agreement	<input type="checkbox"/> Form AA-1PN attached (if applicable)
<input type="checkbox"/> Grant Budget	

End Form AA-1

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8. Type of Agreement <input checked="" type="checkbox"/> Grant <input type="checkbox"/> Cooperative Agreement <input type="checkbox"/> Other	9. Authority 109-58, Energy Policy Act (2005)		10. Purchase Request or Funding Document No. 09EE003763	
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17. Submit Payment Requests To		18. Paying Office		19. Submit Reports To See Attachment 3
20. Accounting and Appropriation Data States & Municipalities				
21. Research Title and/or Description of Project SUSTAINABLE ENERGY FOR VERMONT SCHOOLS				
For the Recipient		For the United States of America		
22. Signature of Person Authorized to Sign		25. Signature of Grants/Agreements Officer <i>Andrea K. Lucero</i>		
23. Name and Title		24. Date Signed	26. Name of Officer Andrea K. Lucero	27. Date Signed 09/11/2009

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED DE-EE0000385	PAGE OF 2 3			
NAME OF OFFEROR OR CONTRACTOR DEPT OF EDUCATION VERMONT					
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CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
DE-EE0000385

PAGE OF
3 | 3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Fund: 05458 Appr Year: 2009 Allottee: 31 Report Entity: 200835 Object Class: 41020 Program: 1005244 Project: 0000000 WFO: 0000000 Local Use: 0000000				

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AND INSTRUCTIONS**

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3. Recipient: Vermont Department of Education			
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A. MANAGEMENT REPORTING			
<input checked="" type="checkbox"/> Progress Report		F Q	
<input checked="" type="checkbox"/> Special Status Report (see special instructions)		A	
B. SCIENTIFIC/TECHNICAL REPORTING (Reports/Products must be submitted with appropriate DOE F 241. The forms are available at www.osti.gov/elink)			
Report/Product	Form		
<input type="checkbox"/> Final Scientific Report	DOE F 241.3		https://www.eere-pmc.energy.gov/SubmitReports.aspx
<input type="checkbox"/> Conference papers/proceedings*	DOE F 241.3		http://www.osti.gov/elink-2413
<input type="checkbox"/> Software/Manual	DOE F 241.4		http://www.osti.gov/estsc/241-4pre.jsp
<input type="checkbox"/> Other (see special instructions)	DOE F 241.3		
* <i>Scientific and technical conferences only</i>			
C. FINANCIAL REPORTING			
<input checked="" type="checkbox"/> SF-425, Federal Financial Report		FQ	
D. CLOSEOUT REPORTING			
<input type="checkbox"/> Patent Certification			
<input checked="" type="checkbox"/> Property Certification		F	
<input type="checkbox"/> Other (see Special Instructions)			https://www.eere-pmc.energy.gov/SubmitReports.aspx
E. OTHER REPORTING			
<input type="checkbox"/> Annual Indirect Cost Proposal			
<input type="checkbox"/> Annual Inventory of Federally Owned Property, If Any			
<input type="checkbox"/> Other (see special instructions)			
FREQUENCY CODES AND DUE DATES: A - Within 5 calendar days after events or as specified. F - Final; 90 calendar days after expiration or termination of the award. Y - Yearly; 90 days after the end of the reporting period. S - Semiannually; within 30 days after end of the reporting period. Q - Quarterly; within 30 days after end of the reporting period.			
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State of Vermont
Vermont Department of Education
120 State Street
Montpelier, VT 05620-2501

Summer 2009 – Fall 2010



Solar in Schools

To: All Interested Parties, Especially Teachers!
From: Cathy Hilgendorf, School Construction Coordinator
Tel: 802-828-5402

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By offsetting a modest amount of fossil-fuel-generated electricity, this project will add a green component to school buildings. More importantly, it will train people in solar power technology, strengthen science curricula, and provide another opportunity for project-based, hands-on learning. Ideally, the funds will be granted to teams of elementary and middle schools, high schools, and career and technical centers collaborating to bring a continuum of educational opportunities to their communities.

One possible example of a successful proposal:

Three instructors from Model Technical Center (MTC) construction and engineering programs and four teachers at Hypothetical High School (HHS) collaborate with a challenge for their students. Math and science students determine the amount of electricity that would be generated by installing a 5kW solar photovoltaic array on HHS and project the annual savings in both dollars and carbon emissions. MTC architecture and engineering students design the installation for optimum performance and ease of maintenance, including an interactive education center in the school lobby tied to the solar photovoltaic system with real-time metering. The company hired to install the system allows MTC construction students to participate, other students put together a solar power curriculum module for the nearby elementary school, and the local community access television station uses media and communications students to document the project. Outcomes: the school community has a renewable energy system and solar power has been demystified for dozens of tomorrow's citizens.

I'm sure many other creative models will be developed, and there will be more information about the competition at the start of the 2009/10 school year, with proposals due to the department in December 2009. Each competitive grant will be in the \$50,000 range, enough to cover the equipment and installation of a small solar photovoltaic system in most cases. No "match"

contribution will be required, although districts may choose to increase the size and scope of their projects beyond what this grant will cover. Most districts will need to seek out other partners in order to put together a strong proposal, such as the opportunities for professional development for instructors through Vermont Energy Education Program (VEEP). VEEP has solar education modules for elementary and middle grades at very low cost to districts.

Project Timeframe:

April 2009 – Senator Bernie Sanders notifies VT Department of Education (VT DOE) of federal budget earmark for Solar in Schools (This is not ARRA money).

May 2009 - VT DOE completes application with US Dept. of Energy (US DoEn).

June through August 2009 – US DoEn and VT DOE set up federal grant parameters. State of Vermont reviews and accepts terms of federal funds.

Curriculum coordinators, administrators, and educators plan to bring solar power and solar education to a broad base of students. 2009/10 curricula incorporates solar technology elements. Schools are encouraged to start professional development and curriculum enhancement in advance of the competition for construction funds.

September/October 2009 – VT DOE distributes grant details and federal requirements to school administrators and business managers. Teams designate a point person and put together a proposal.

December 2009 – proposals due to VT DOE. Proposals will be reviewed and awards will be announced.

Possible Timeframes for Construction: In some proposals, schools may use the 2009/2010 school year for students to plan and design the system, leaving the bidding and construction for summer/fall 2010, followed by more curriculum links after construction. Other schools may propose projects which accelerate the design and construction during fall 2009/spring 2010, with the majority of the curriculum pieces fitting in after the solar panels are on the building. All proposals should anticipate completion of installation before June 30, 2011.

Proposal Notes: Due to theft and vandalism concerns, and to minimize permitting issues with ground disturbance, building-mounted systems are encouraged and ground-mounted systems are discouraged. The use of federal funds for this project triggers the Davis-Bacon Wage Act, which should be considered in budgeting and bidding.



Watch the Vermont Dept. of Education Weekly Field Memos for further details!