

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

PHONE: (802) 828-2295

FAX: (802) 828-2483

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]

PHONE: (802) 828-2295

FAX: (802) 828-2483

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 PHONE: (802) 828-2295 FAX: (802) 828-2483

STATE OF VERMONT GRANT ACCEPTANCE FORM



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) (DATE) RECEIVED

OCT 21 2009

JOINT FISCAL OFFICE

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

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BASIC GRANT INFO	MIJATIN	<u></u>			
1. Agency:					
2. Department:	Eai	ucation			
2 D	Cal	nool Construction			
3. Program:	1 301	iooi Construction			
4. Legal Title of Grant	. 5116	tainable Energy Fo	or Vermont Schools		
5. Federal Catalog #:		117	or vermont schools	· · · · · · · · · · · · · · · · · · ·	
3. rederal Catalog #:	01.	11/			•
6. Grant/Donor Name	and Add	rogg.			
			ice, 1617 Cole Blvd, G	olden CO 80401-3	305
7. Grant Period:	From:	9/1/2009		6/30/2011	300
7. Grant I criou.	110111,	77172007	10.	0/30/2011	
8. Purpose of Grant:					
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9. Impact on existing p					
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					ences with solar energy,
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10. BUDGET INFORM					
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Expenditures:		FY 2010	FY 2011	FY	Comments
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Operating Expenses		Ψ	Ψ	Ψ	
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		\$143,650	\$356,350	8	All Fed - no state or
-	Total	\$143,650 \$143,650	\$356,350 \$356,650	\$ \$	All Fed - no state or local match
	Total	\$143,650 • \$143,650	\$356,350 \$356,650	\$ \$	
Revenues:	Total	\$143,650	\$356,650	\$	
Revenues: State Funds:	Total	\$143,650 \$	\$356,650 \$	\$ \$	
Revenues: State Funds: Cash	Total	\$143,650 \$ \$	\$356,650 \$ \$	\$ \$ \$	
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STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

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12. Limited Service						
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Total Positions						
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13. AUTHORIZATION A	GENCY/DEPAR	RTMEN	T	7		
I/we certify that no funds	Signature:					Date:
beyond basic application	Signature.					Date.
preparation and filing costs	Title:					
have been expended or						
committed in anticipation of	<u></u>		r 1 /2			T 75 0/10/2000
Joint Fiscal Committee	Signature:	1	DIII			Date: 9/18/2009
approval of this grant, unless		1/K_	aller			
previous notification was	Title: CFO/De	puty Cor	nmissioner			
made on Form AA-1PN (if	· ·					
applicable):	<u>L</u>					
14. ACTION BY GOVERN	VOR			11.		
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Rejected	(Governor's sig	gnature)) '			Date:
15. SECRETARY OF ADM	MINISTRATION	N				
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Request to JFO		1/4	- W			145/05
Information to JFO	(Secretary's sig	gnature c	or designee)			Date:
16. DOCUMENTATION I	REQUIRED			1. 1.		
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Grant Agreement			Form AA-1PN atta	.cned (11	applicable)	
Grant Budget	· · · · · · · · · · · · · · · · · · ·			···-		
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NOT SPECIFIED /OTHER

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5. Awarded To		•	-	6. Spon	soring Office				7.	Period of Performance
DEPT OF EDUCATION VERM Attn: KATHY FLANAGAN 120 STATE STREET MONTPELIER VT 05620250		1		U.S. I Golder 1617 (n Field Off Department n Field Off Cole Blvd. n CO 80401	of E	nergy		th	/01/2009 rough /30/2011
8. Type of Agreement	9. Authority						10. Purchas	e Request	t or Funding	Document No.
X Grant Cooperative Agreement Other	109-58,	Energy	Policy A	ct (20	005)		09EE0037	63		
11. Remittance Address				12. To	tal Amount			13. Fund	ds Obligated	
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14. Principal Investigator		15. Progra	m Manager	<u> </u>			16. Administra	l tor		
Cathy Hilgendorf Phone: 802-828-5402		1	hristoph 303-275-		nter	·	Golden Fie U.S. Depar Golden Fie 1617 Cole Golden CO	rtment eld Off Blvd.	of Energice	ЭY
17. Submit Payment Requests To		<u> </u>	18. Payir	na Office			<u> </u>	119.	Submit Rep	orts To
								See	e Attach	ment 3
20. Accounting and Appropriation	Data		!		···				·,··	
States & Municipalitie										
21. Research Title and/or Descript SUSTAINABLE ENERGY FOR			5 .			<u> </u>				
For	the Recipier	nt .	,				For the Unite	ed States of	of America	
22. Signature of Person Authorize					25. Signature of			Officer		icero
23. Name and Title			24. Date Sig	ned	26. Name of Off	icer				27. Date Signed
					Andrea K. I	ucer	<u></u>			09/11/2009

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED DE-EE0000385

PAGE OF 2

1 3

NAME OF OFFEROR OR CONTRACTOR DEPT OF EDUCATION VERMONT

	EDUCATION VERMONT				· · · · · · · · · · · · · · · · · · ·	
ITEM NO.	SUPPLIES/SERVICES	QUANTIT	1 1	UNIT PRICE	AMOUNT	
(A)	(B)	(C)	(D)	(E)	(F)	·
	DUNS Number: 884902701				•	
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	Electronic signature or signatures as used in					
	this document means a method of signing an electronic message that	1	1			
	(A) Identifies and authenticates a particular				•	
	person as the source of the electronic message;	İ				
	(B) Indicates such person's approval of the					
	information contained in the electronic message;			•	•	
	and,					
•	(C) Submission via FedConnect constitutes					
	electronically signed documents.	ļ				
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	award consists of the items listed in the Special	L ·	-	·		
	Terms and Conditions, Provision 2, Award		1			
٠	Agreement Terms and Conditions.	1 .			•	
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4	DOE Award Administrator: Diana Martinez				•	
	E-mail: diana.martinez@go.doe.gov	1				
	Phone: 303-275-4939				·	
]		1		
	DOE Project Officer: Brian Hunter					_
	E-mail: brian.hunter@go.doe.gov					
	Phone: 303-275-4934					
	Recipient Business Officer: William Talbott		1			
	E-mail: bill.talbott@state.vt.us			·.		
	Phone: 802-828-0470					
	Recipient Principal Investigator: Cathy Hilgendo:		1.	ł		
	E-mail: cathy.hilgendorf@state.vt.us	- -	1		•	
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NOT SPECIFIED /OTHER

	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
CONTINUATION SHEET	DE-EE0000385	3	1 3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO.	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				
· .		·			
					. *
					July 2004

DOE F 4600.2 (02/09) All Other Editions Are Obsolete

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

1. Identification Number: DE -EE0000385.000	2. Program/P Sustainable	Project Title: Energy for Vermont S	chools
3. Recipient:			
Vermont Department of Education			
4. Reporting Requirements:	Frequency	No. of Copies	Address
A. MANAGEMENT REPORTING ☐ Progress Report ☐ 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			1
☐ Final Scientific Report DOE F 241.3			http://www.osti.gov/elink-2413
☐ Conference papers/proceedings* DOE F 241.3	1		http://www.osti.gov/elink-2413
Software/Manual DOE F 241.4		-	http://www.osti.gov/estsc/241-4pre.jsp
Other (see special instructions)	1 .1		1
* Scientific and technical conferences only			
C.FINANCIAL REPORTING	.EO		https://www.eere-
SF-425, Federal Financial Report	FQ		pmc.energy_gov/SubmitReports.aspx
D. CLOSEOUT REPORTING			
Patent Certification	_		https://www.eere- pmc.energy.gov/SubmitReports.aspx
Property Certification	F		pnic.energy.gov/Submitixeports.aspx
U Other (see Special Instructions)			
E. OTHER REPORTING			
Annual Indirect Cost Proposal	1 1		
Annual Inventory of Federally Owned Property, If Any	1		
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.	•	•	
O - Quarterly; 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			



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



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) (INITIAL)

(DATE)

RECEIVED

OCT 21 2009

JOINT FISCAL OFFICE

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

F-2					
BASIC GRANT INFOR	RMAT	ION			
1. Agency:					
2. Department:	E	ducation			
	•				
3. Program:	S	chool Construction			
4. Legal Title of Grant:	S	ustainable Energy Fo	r Vermont Schools	•	-
5. Federal Catalog #:		1.117			
8					····
6. Grant/Donor Name a	nd Ad	dress:	· · · · · · · · · · · · · · · · · · ·		
			ice, 1617 Cole Blvd, Go	Iden: CO 80401-33	05
	From			/30/2011	
	110111	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10. 0.	30/2011	
8. Purpose of Grant:					
-	voltaic	installations at publi	c schools		
9. Impact on existing pro					
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			Il have far fewer hands-		
			crificed. Will not increa		
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10. BUDGET INFORM	ATIO	<u> </u>	 		
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Expenditures:		FY 2010	FY 2011	FY	
Personal Services		\$	\$	\$	
Operating Expenses		\$	\$	\$	
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Grants		\$143,650	\$356,350	\$	local match
Γ	otal	\$143,650	\$356,650	\$	
Revenues:				,	
State Funds:		\$	\$	\$	·
Cash		\$	\$	-\$	
In-Kind		\$	\$	\$	
Federal Funds:		\$	\$	\$	
(Direct Costs)		\$143,650	\$356,350	\$	
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	I	Φ143,030	\$330,030	Ψ	1 \$300,000
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Appropriation 110;	2100	010000	Amount:	\$143,030	
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STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

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12. Limited Service					
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Position Information:		Title			
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12a. Equipment and space positions:	for these	Is presently availa	ıble. Can	be obtained with	available funds.
13. AUTHORIZATION A	GENCY/DEPART	TMENT			
I/we certify that no funds	Signature:				Date:
beyond basic application	Signature.			•	
preparation and filing costs	Title:				
have been expended or		^			
committed in anticipation of	Signature: /	1 1 1 6			Date: 9/18/2009
Joint Fiscal Committee	Signature. //				Date. 9/16/2009
approval of this grant, unless	/W	Maller	<u> </u>	·	<u> </u>
previous notification was	Title: CFO/Depi	uty Commissioner			
made on Form AA-1PN (if					
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14. ACTION BY GOVER	NOR				
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	(Governor's sign	nature)			Date:
Rejected					
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Check One Box:					.11
Request to JFO		16 DUC			145/0
	(Secretary's sign	nature or designee)			Date:
Information to JFO	(333,433, 33,8				
16. DOCUMENTATION 1	REQUIRED				
	Regr	ired GRANT Docu	mentation		
Request Memo	2-240		Donation (if any)	
Dept. project approval (i	familicable)		ject) Timeline (i	,	
Notice of Award	. appo		r Extension (if a		
Grant Agreement			PN attached (if		
Grant Budget			i i i i anaciica (ii	аррисансу	
Grant Dauget		End Form A A	1		
	<u> </u>	End Form AA-	·1	·	

NOT SPECIFIED /OTHER

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DEPT OF EDUCATION VERM	רייער			Golder	n Field	Office			n g	/01/2009
Attn: KATHY FLANAGAN	J14 1		I			ent of En	erav			rough
120 STATE STREET					-	Office	.0131	•	06,	/30/2011
MONTPELIER VT 05620250	1.				Cole Bl					
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8. Type of Agreement	9. Authority	,					10. Purchase	e Reque	est or Funding	Document No.
X Grant	109-58,	Energy	Policy A	ct (20	005)		09EE0037	63		
Cooperative Agreement		•								
Other							,			
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14. Principal Investigator		1	ım Manager			1	16. Administra			
Cathy Hilgendorf			hristoph		nter	i	Golden Fie			
Phone: 802-828-5402		Phone:	303-275-	4934			-		of Energ	У .
:		· .					Golden Fie 1617 Cole		•	
, ,							Golden CO			
17. Submit Payment Requests To		<u> </u>	18. Payir	ng Office		<u></u> _		19	9. Submit Rep	orts To
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20. Accounting and Appropriation	Data							!		
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21. Research Title and/or Descript						. <u></u>	·		· · · · · · · · · · · · · · · · · · ·	
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					titled	rda	<u> </u>	×-	050	icero
23. Name and Title			24. Date Sig	gned 2	26. Name	of Officer	·····			27. Date Signed
	•			1	Andrea	K. Lucero				09/11/2009
		<u> </u>			u.ca	" nacet	<u> </u>			00,11,2009

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED DE-EE0000385

PAGE 2

| 3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

	EDUCATION VERMONT				
ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	DUNS Number: 884902701				
	Electronic signature or signatures as used in this document means a method of signing an		1		
	electronic message that		1 1	•	
*	(A) Identifies and authenticates a particular				
	person as the source of the electronic message;				
•	(B) Indicates such person's approval of the	-			
	information contained in the electronic message;		1 1		
	and,			·	
	(C) Submission via FedConnect constitutes				
	electronically signed documents.		1 1		
•					•
	In addition to this Assistance Agreement, this				
	award consists of the items listed in the Special	·			
	Terms and Conditions, Provision 2, Award	•	j		
	Agreement Terms and Conditions.				
	 DOE Award Administrator: Diana Martinez]			
	E-mail: diana martinez@go.doe.gov				
	Phone: 303-275-4939		}	·	
	Filone. 505-275 4959				
	DOE Project Officer: Brian Hunter	l			· ·
•	E-mail: brian.hunter@go.doe.gov]			-
	Phone: 303-275-4934	Ì			
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	Recipient Business Officer: William Talbott				
	E-mail: bill.talbott@state.vt.us				·
	Phone: 802-828-0470	1	1		
	Recipient Principal Investigator: Cathy Hilgendor	E	1		
	E-mail: cathy.hilgendorf@state.vt.us Phone: 802-828-5402		1		
	Priorie: 802-828-5402	1	1	ľ	
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	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE	OF
CONTINUATION SHEET	DE-EE0000385	3	1 3

NAME OF OFFEROR OR CONTRACTOR

DEPT OF EDUCATION VERMONT

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Fund: 05458 Appr Year: 2009 Allottee: 31 Report Entity: 200835 Object Class: 41020 Program: 1005244 Project: 0000000 WFO: 0000000 Local Use: 0000000				
				-	
		:			4

DOE F 4600.2 (02/09) All Other Editions Are Obsolete

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

1. Identification Number: DE -EE0000385.000	2. Program/F Sustainable	Project Title: e Energy for Vermont S	chools
3. Recipient:			
Vermont Department of Education			
4. Reporting Requirements:	Frequency	No. of Copies	Address
A. MANAGEMENT REPORTING Progress Report Special Status Report (see special instructions)	F Q A		https://www.eere- pmc.energv.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	1		
☐ Final Scientific Report DOE F 241.3			http://www.osti.gov/elink-2413
☐ Conference papers/proceedings* DOE F 241.3			http://www.osti.gov/elink-2413
Software/Manual DOE F 241.4			http://www.osti.gov/estsc/241-4pre.jsp
Other (see special instructions) DOE F 241.3	.		
* Scientific and technical conferences only		<u> </u>	, ,
C.FINANCIAL REPORTING	1	•	https://www.eere-
SF-425, Federal Financial Report	FQ		pmc.energy.gov/SubmitReports.aspx
D. CLOSEOUT REPORTING			
Patent Certification			https://www.eere- pmc.energy.gov/SubmitReports.aspx
Property Certification	F		price energy gov/Submitteeports aspx
Other (see Special Instructions)			ļ·
E. OTHER REPORTING			
Annual Indirect Cost Proposal			
Annual Inventory of Federally Owned Property, If Any			
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			



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).

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BASIC GRANT INFO	RMAI	ION		·			
1. Agency:							
2. Department:	E	Education					
3. Program:	S	chool Construction					
4. Legal Title of Grant	: S	ustainable Energy Fo	r Vermont Schools				
5. Federal Catalog #:	8	1.117				,	
6. Grant/Donor Name	and Ad	ldress:					
US Department	of Ener	rgy, Golden Field Off	ice, 1617 Cole Blvd, Gol	den, C	O 80401-330)5	
7. Grant Period:	From	: 9/1/2009	To: 6/	30/201	1		
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8. Purpose of Grant:			•				
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9. Impact on existing p							
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			ill have far fewer hands-c				
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			l modestly reduce educat				
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Expenditures:		FY 2010	FY 2011	F			
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Operating Expenses		\$	\$		\$		
			•			All Fed - no state or	
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	Total	\$143,650	\$356,650		\$		
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State Funds:		\$	\$		\$		
Cash		\$.	\$.\$			
In-Kind		\$	\$		\$		
Federal Funds:		\$	\$. \$			
(Direct Costs)		\$143,650	\$356,350		\$		
(Statewide Indirect)		\$	\$. \$		
(Departmental Indire	ect)	\$	\$	\$			
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STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

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preparation and filing costs have been expended or	Title:							
committed in anticipation of	Signature: /	11	11.	_		Date: 9/18/2009		
Joint Fiscal Committee	Signature.	1	1201 8			Date. 7/18/2007		
approval of this grant, unless previous notification was	Title: CFO/De	Duty C	mmissioner			*		
made on Form AA-1PN (if	Title. Cro/be	puty CC	mmissionei					
applicable):								
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☐ Information to JFO	(Secretary's signal	gnature	or designee)			Date:		
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	Rec	quired (GRANT Documentation					
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Grant Budget			rottii AA-17 N attache	u (II i	аррпсавіе)			
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STATE OF VERMONT GRANT ACCEPTANCE FORM



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) (INITIAL) (INITIAL)

(DATE)

RECEIVED

OCT 21 2009

JOINT FISCAL OFFICE

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

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BASIC GRANT INFO)RMA	TION			
1. Agency:					7
2. Department:		Education			
		· · · · · · · · · · · · · · · · · · ·			
3. Program:		School Construction			
4. Legal Title of Grant	t:	Sustainable Energy Fo	r Vermont Schools		
5. Federal Catalog #:		81.117			
6. Grant/Donor Name					
			ice, 1617 Cole Blvd, Gol	-	305
7. Grant Period:	Fron	n : 9/1/2009	To: 6/	30/2011	
0.70					
8. Purpose of Grant:		ic installations at publi	a aabaala		
9. Impact on existing p			vill lose this opportunity	to offset some foss	il fuel based electricity
			ill have far fewer hands-c		
			crificed. Will not increase		
match is require	ed to in	opilielii iooi wiii oc sa octall the systems Wil	I modestly reduce educat	ion spending for el	ectricity
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10. DUDGET INFOR	VIAII		CIENT 4	CIEW 2	
T 111		SFY 1	SFY 2	SFY 3	Comments
Expenditures:		FY 2010	FY 2011	FY	
Personal Services		\$ \$	\$ \$	<u> </u>	
Operating Expenses		\$	D	Ф	All Fed - no state or
Grants		\$143,650	\$356,350	\$	local match
Grants	Total		\$356,650	\$ \$	100ai maten
Revenues:	Total	\$145,050	Ψ330,030	Ψ	
State Funds:		\$	\$	\$	· · · · · · · · · · · · · · · · · · ·
Cash		\$	\$	·\$	
In-Kind		\$	\$	\$	
			-		
Federal Funds:	1	\$	\$	\$	
(Direct Costs)		\$143,650	\$356,350	\$	
(Statewide Indirect)		\$	\$	\$	· ·
(Departmental Indire		\$	\$	\$	
Other Funds:		\$	\$	\$	
Grant (source)	\$	\$	\$	
	Total			1.00	total Fed grant
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Appropriation No:	510	0010000	Amount:	\$143,650	
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STATE OF VERMONT REQUEST FOR GRANT ACCEPTANCE (Form AA-1)

S S Total \$ PERSONAL SERVICE INFORMATION					
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					
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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					
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Position Information: # Positions Title 0					
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Total Positions					
Total Positions					
Total Positions					
12a. Equipment and space for these positions:					
13. AUTHORIZATION AGENCY/DEPARTMENT					
I/we certify that no funds Signature: Date:					
beyond basic application preparation and filing costs Title:					
have been expended or					
committed in anticipation of Signature / 1 1 1 2000					
Joint Fiscal Committee					
approval of this grant, unless previous notification was Title: CFO/Deputy Commissioner					
previous notification was made on Form AA-1PN (if Title: CFO/Deputy Commissioner					
applicable):					
14. ACTION BY GOVERNOR					
Check One Box:					
Accepted / Municipal / John 10/9/09					
(Governor's signature) Date:					
Rejected					
15. SECRETARY OF ADMINISTRATION					
Check One Box:					
Request to JFO (Secretary's signature on designs s)					
Information to JFO (Secretary's signature or designee) Date:					
16. DOCUMENTATION REQUIRED					
Required GRANT Documentation					
Request Memo Notice of Donation (if any)					
Dept. project approval (if applicable) Grant (Project) Timeline (if applicable)					
Notice of Award Request for Extension (if applicable) Request for Extension (if applicable)					
☐ Grant Agreement ☐ Form AA-1PN attached (if applicable) ☐ Grant Budget					
End Form AA-1					

NOT SPECIFIED /OTHER

ASSISTANCE AGREEMENT							
1. Award No. DE-EE0000385	<u> </u>	2. Modification		Effective Da	1	I. CFDA No. 31.117	
5. Awarded To	· · · · · · · · · · · · · · · · · · ·	6. S	ponsoring Offic	ce			7. Period of Performance
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8. Type of Agreement	9. Authority				10. Purchase	Request or Fundi	ng Document No.
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11. Remittance Address		12.	. Total Amoun	t	•	13. Funds Obliga	
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14. Principal Investigator	15. Pr	ogram Manager	······································	•	16. Administra	tor	
Cathy Hilgendorf Phone: 802-828-5402		n Christopher e: 303-275-493			Golden Fie 1617 Cole	tment of Ene	
17. Submit Payment Requests To		18. Paying O	ffice		·	19. Submit F	Reports To
					4 · ·	See. Attac	chment 3
20. Accounting and Appropriation D	Data						
States & Municipalities	0.2						*
21. Research Title and/or Description of Project SUSTAINABLE ENERGY FOR VERMONT SCHOOLS							
For the	ne Recipient	,	T		For the Unite	d States of America	a
22. Signature of Person Authorized	to Sign				/Agreements O		acero
23. Name and Title		24. Date Signed	26. Name	of Officer			27. Date Signed
			Andrea	K. Lucero	0		09/11/2009

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED DE-EE0000385

PAGE 2 OF | 3

NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	DUNS Number: 884902701				
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	electronic message that			·	
	(A) Identifies and authenticates a particular				
	person as the source of the electronic message;				
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	and,				
	(C) Submission via FedConnect constitutes				
	electronically signed documents.				
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	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.				
	DOE Award Administrator: Diana Martinez				
	E-mail: diana.martinez@go.doe.gov				
	Phone: · 303-275-4939		l		
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	DOE Project Officer: Brian Hunter			. , .	
	E-mail: brian.hunter@go.doe.gov		ł		
	Phone: 303-275-4934	[•
•	Recipient Business Officer: William Talbott				
	E-mail: bill.talbott@state.vt.us				
	Phone: 802-828-0470				
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	Recipient Principal Investigator: Cathy Hilgendor	ŧ			
	E-mail: cathy.hilgendorf@state.vt.us				
	Phone: 802-828-5402				
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NAME OF OFFEROR OR CONTRACTOR
DEPT OF EDUCATION VERMONT

ITEM NO.	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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U.S. Department of Energy FEDERAL ASSISTANCE REPORTING CHECKLIST AND INSTRUCTIONS

3. Recipient: Vermont Department of Education 4. Reporting Requirements:	1. Identification Number: DE -EE0000385.000		Project Title: le Energy for Vermont S	chools
A Reporting Requirements: A MANAGEMENT REPORTING Progress Report Special Status Report (see special instructions) B. SCIENTIFIC/TECHNICAL REPORTING Reports/Products must be submitted with appropriate DOE F 241. The forms are available at http://www.osti.gov/elink-2413 B. SCIENTIFIC/TECHNICAL REPORTING Reports/Product Form Report/Product Report/Pro	3. Recipient:			
A MANAGEMENT REPORTING Progress Report F Q	Vermont Department of Education			
Progress Report F.Q A A	4. Reporting Requirements:	Frequency	No. of Copies	Address
Reports/Products must be submitted with appropriate DOE F 241. The forms are available at http://www.osti.gov/elink-2413	☑ Progress Report			
Final Scientific Report DOE F 241.3 http://www.osti.gov/elink-2413 http://www.osti.gov/eli	(Reports/Products must be submitted with appropriate DOE F 241. The forms are available at www.osti.gov/elink)			
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5. Special Instructions: The forms identified in the checklist are available at http://management.energy.gov/business_doe/business_forms.htm .	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

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 crossdiscipline 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!