



Submission

ID **1389**

Tier: 4
 Expenditure Plans this Fiscal Year: 2015-16
 Submittal Option: Annual Award Energy Expenditure Plan

Grant Amount Requested: \$214,269.00
 Grant Balance Available: _____

Applicant Information

Local Education Agency Name: Davis Joint Unified
 LEA CDS Code: 5772678000000
 Mailing Address: 526 B Street
 City: Davis
 Zip Code: 95616-3811

Energy Planning Reservation Information

Did you request Energy Planning Funds? (If no, move on to next section) Yes
 Budget for Screening and Energy Audits: _____ Amount Spent for Screening and Audits: _____
 Budget for Proposition 39 Program Assistance: \$130,000.00 Amount Spent for Program Assistance: _____
 Budget for Energy Manager: _____ Amount Spent for Energy Manager: \$120,529.00
 Budget for Training Totals: _____ Amount Spent for Training: _____
 Totals: \$130,000.00 Totals: \$120,529.00

Energy Manager and Training

Are you hiring an Energy Manager with Funds Requested in this Expenditure Plan? _____ Amount Requesting for Energy Manager: _____
 Are you using Proposition 39 funds for energy related training costs? _____ Amount Requesting for Training: _____

Summary of Schools/Sites

	Total Project Cost	Proposition 39 Share	
Estimated Totals:	\$253,019.00	\$214,269.00	Summation is for 1 School

Job Creation Benefits Estimation

Type of Project	Budget	Estimated Direct Job-Years Created	
Energy Efficiency	\$214,269.00	1.20	Please list any state-certified apprenticeship programs being used: <div style="border: 1px solid black; height: 60px; width: 100%;"></div>
Renewable Generation	_____	_____	
Distributed Energy	_____	_____	
Total:		1.20	

Will this project be subject to a community benefits agreement, community workforce agreement, or other mechanism that defines project co-benefits?

Apprenticeship Information

Budget _____ Estimated Apprenticeship Job-Years Created _____

Other Trainee Position Title

Estimated Other Trainee Jobs Created

_____	_____
_____	_____
_____	_____
_____	_____
Total:	_____

Self-Certifications

- Yes The LEA followed the Proposition 39 Guidelines regarding Eligible Energy Project Prioritization Considerations.
- Yes The LEA followed the guidelines regarding Sequencing of Facility Improvements
- Yes The LEA commits to use the funds for the eligible energy project(s) approved in its energy expenditure plan.
- Yes The LEA commits that the information included in the application is true and correct based to the best of the LEA's knowledge.
- Yes The LEA commits that all California Environmental Quality Act (CEQA) requirements are completed.
- Yes The LEA will obtain DSA project approval as applicable pursuant to California Code Regulations, Title 14.
- Yes The LEA acknowledges that the expenditures are subject to financial audit requirements
- Yes The LEA commits to complying with all reporting requirements.

Authorized Representative: George Parker Date: 4/12/2016



Site Information

Project Start Date: 9/30/2016
 Completion Date: 12/31/2017
 Local Education Agency: Davis Joint Unified
 LEA CDS Code: 57726780000000

School or Site Information

School/Site Name: Ralph Waldo Emerson Junior High
 School/Site CDS Code: 57726780000000
 School/Site Mailing Address: 2121 Calavaras Avenue
 City: Davis
 Zip Code: 95616-3811

Energy Efficiency Project Summary

Measure Savings Source: Energy audit/feasibility study
 Proposition 39 Share to be used for Measure Implementation (\$): \$214,269.00

Benchmarking

Square Footage of School/Site: 92,960
 Average Peak Demand (kW): _____
 Total Annual Electric Use (kWh): 453,808
 Total Annual Electric Charges (\$): \$90,631.61
 Total Annual Gas Use (therms): 4,625
 Total Annual Gas Charges (\$): \$5,198.92
 Total Annual Propane Use (gals): _____
 Total Annual Propane Charges (\$): _____
 Total Annual Fuel Oil Use (gals): _____
 Total Annual Fuel Oil Charges (\$): _____
 Energy Bill Fiscal Year: 2014-15
 Electric Utility: PG&E
 Electric Utility Account #: 3574702283
 Gas Utility: PG&E
 Gas Utility Account #: 3574702207

Reminder: If the School/Site includes leased facilities, please include Building Owner Certification in backup documentation.

Energy Use Intensity Calculator					
Electricity		Natural Gas		Other Fuels	
	W/SF	.05	Therms/SF		Gals/SF
4.88	kWh/SF	\$.06	Cost/SF		Cost/SF
\$.97	Cost/SF				
Energy Costs/SF/Year:		\$1.03	Energy Use(Kbtu)/SF/Year:		57.29

Version **4**

Energy Efficiency Measure	Description	Demand Savings (kW)	Annual Electric Savings	Annual Nat. Gas Savings	Annual Propane Savings	Annual Fuel Oil Savings	Annual Energy Cost Savings (\$)	Measure Cost (\$)	Rebates and Grants (\$)	EEM SIR
HVAC- New Economizer	Ralph Waldo Emerson JH School - HVAC Controls - Enhanced Ventilation Control	5	15,646	361			\$3,531.00	\$7,588.00	\$3,875.00	10.05
Plug Loads- Power Management	Ralph Waldo Emerson JH School - IT/Plug - PC Power Management		4,998	(31)			\$964.00	\$1,156.00	\$600.00	7.44
HVAC Controls- Programmable/Smart Thermostats	Ralph Waldo Emerson JH School - HVAC Controls - Global Thermostat Temperature Control		44,705				\$8,928.00	\$15,200.00		6.37
Lighting- Interior Fixture Retrofit	Ralph Waldo Emerson JH School - Lighting - Replace Gym Metal Halide Lamps/Fixtures		10,244				\$2,046.00	\$11,500.00	\$2,922.00	3.76
Lighting- Interior Fixture Retrofit	Ralph Waldo Emerson JH School - Lighting - Upgrade Interior T12/T8 Fluorescent Fixtures	1	64,498	(23)			\$12,855.00	\$205,500.00	\$31,353.00	1.34
Lighting Controls	Ralph Waldo Emerson JH School - Lighting Controls - Occupancy Sensors		7,855				\$1,569.00	\$12,075.00		1.15

Energy Efficiency Narrative Description

Emerson Junior High is one of three junior high schools in Davis JUSD located in Davis, CA 95616. The school accommodates roughly 482 students in the elementary grades from 7th through 9th grade. The school is co-located with the Da Vinci Charter Academy and together the joint facilities have a conditioned area of approximately 105,260 square feet. Of this, 92,960 sq. ft. is considered to be allocated to Emerson. The audit addressed all areas of the facility. The facility was originally built in 1977. The school consists of a number of single-story buildings connected by unconditioned hallways. These buildings contain classrooms and office spaces, a library, gymnasium and an indoor commons which serves as a lunch or assembly room. Additionally, there are seven portable classroom buildings. According to the bell schedule, regular school hours are from 8:05 a.m. to 3:15 p.m., Monday through Friday. However, employees might extend the facility operating hours earlier in the morning and later in the afternoon. The opportunities identified at Emerson Junior High were: Interior lighting and controls Global thermostat controls CPMEVC

Site Project Summary

Total Demand Savings	<u>6</u>	Total Annual Fuel Oil Savings	_____	Total Prop 39 Share	<u>\$214,269.00</u>
Total Annual Electric Savings	<u>147,946</u>	Total Annual Cost Savings	<u>\$29,893.00</u>	Savings-to-investment Ratio (SIR)	<u>1.95</u>
Total Annual Natural Gas Savings	<u>307</u>	Total Project Cost	<u>\$253,019.00</u>	Total Cost Paid Under PPA	_____
Total Annual Propane Savings	_____	Total Rebates	_____		