



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:

Energy Planning Reservation Information

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

Amount Spent for Screening and Audits:
Amount Spent for Program Assistance:
Amount Spent for Energy Manager: \$120,529.00
Amount Spent for Training:
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
Renewable Generation		
Distributed Energy		
		Total: 1.20

Please list any state-certified apprenticeship programs being used:

Apprenticeship Information	Budget	Estimated Apprenticeship Job-Years Created

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

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

Applicant Information

Local Education Agency Name: Davis Joint Unified
LEA CDS Code: 57726780000000
Mailing Address: 526 B Street
City: Davis
Zip Code: 95616-3811

LEA Authorized Representative

Name: George Parker
Title: Director of Facilities, Maintenance & Operations
Phone: 5307592182
Email: gparker@djUSD.net

Project Manager

Name: Will Pearce
Title: Account Manager
Phone: 6507122019
Email: will.pearce@clearesult.com



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