



Submission

ID 1392

Tier: 2
Expenditure Plans this Fiscal Year: 2015-16
Submittal Option: Annual Award Energy Expenditure Plan

Grant Amount Requested: \$79,352.00
Grant Balance Available:

Energy Planning Reservation Information

Did you request Energy Planning Funds? (If no, move on to next section) No

Budget for Screening and Energy Audits:

Budget for Proposition 39 Program Assistance:

Budget for Energy Manager:

Budget for Training Totals:

Totals:

Amount Spent for Screening and Audits:

Amount Spent for Program Assistance:

Amount Spent for Energy Manager:

Amount Spent for Training:

Totals:

Energy Manager and Training

Are you hiring an Energy Manager with Funds Requested in this Expenditure Plan?

Are you using Proposition 39 funds for energy related training costs?

Amount Requesting for Energy Manager:

Amount Requesting for Training:

Summary of Schools/Sites

	Total Project Cost	Proposition 39 Share
Estimated Totals:	\$88,498.00	\$79,352.00

Summation is for 1 School

Job Creation Benefits Estimation

Type of Project	Budget	Estimated Direct Job-Years Created	Please list any state-certified apprenticeship programs being used:
Energy Efficiency	\$79,352.00	0.44	
Renewable Generation			
Distributed Energy			
Total:		0.44	

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: Da Vinci Charter Academy
LEA CDS Code: 57726780119578
Mailing Address: 1400 East Eighth Street
City: Davis
Zip Code: 95616-2404

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: 8/31/2017
Local Education Agency: Da Vinci Charter Academy
LEA CDS Code: 57726780119578

School or Site Information

School/Site Name: Da Vinci Charter Academy
School/Site CDS Code: 57726780119578
School/Site Mailing Address: 1400 East Eighth St.
City: Davis
Zip Code: 95616-2404

Energy Efficiency Project Summary

Measure Savings Source: Combination Calculator and Audit
Proposition 39 Share to be used for
Measure Implementation (\$): \$79,352.00

Benchmarking

Square Footage of School/Site: 12,300
Average Peak Demand (kW):
Total Annual Electric Use (kWh): 93,408
Total Annual Electric Charges (\$): \$18,654.76
Total Annual Gas Use (therms): 2,829
Total Annual Gas Charges (\$): \$3,179.70
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	.23	Therms/SF		Gals/SF
7.59	kWh/SF	\$.26	Cost/SF		Cost/SF
\$1.52	Cost/SF				
Energy Costs/SF/Year:		\$1.78	Energy Use(Kbtu)/SF/Year:		104.38

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
Plug Loads- Power Management	Da Vinci Charter Academy School - IT/Plug - PC Power Management		2,499	(15)			\$482.00	\$578.00	\$300.00	7.44
Lighting- Exterior Fixture Retrofit	Da Vinci Charter Academy - Lighting - Replace Exterior Lighting Lamps/Fixtures		22,118				\$4,417.00	\$35,970.00	\$2,720.00	2.15
Lighting Controls	Da Vinci Charter Academy - Lighting Controls - Occupancy Sensors		1,387				\$277.00	\$1,400.00		1.68
Lighting Controls	Da Vinci Charter Academy - Lighting Controls - Exterior Photocells / Time Clocks		1,930				\$385.00	\$3,600.00		.97
HVAC Controls- Programmable/Smart Thermostats	Da Vinci Charter Academy School - HVAC Controls - Global Thermostat Temperature Control		2,101				\$420.00	\$3,200.00		1.57
Lighting- Interior Fixture Retrofit	Da Vinci Charter Academy - Lighting - Upgrade Interior T12/T8 Fluorescent Fixtures to LED		12,383	(7)			\$2,465.00	\$43,750.00	\$6,126.00	1.22

Energy Efficiency Narrative Description

Da Vinci Charter Academy has its junior high school located at the same site as Emerson Junior High, located in Davis, CA 95616. The school is co-located with the Emerson Junior High School and together the joint facilities have a conditioned area of approximately 105,260 square feet. Of this, 12,300 sq. ft. is considered to be allocated to Da Vinci. 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.

Site Project Summary

Total Demand Savings		Total Annual Fuel Oil Savings		Total Prop 39 Share	\$79,352.00
Total Annual Electric Savings	42,418	Total Annual Cost Savings	\$8,446.00	Savings-to-investment Ratio (SIR)	1.64
Total Annual Natural Gas Savings	(22)	Total Project Cost	\$88,498.00	Total Cost Paid Under PPA	
Total Annual Propane Savings		Total Rebates			