| Docket Number: | 13-CCEJA-01 | |
|-------------------------|---|--|
| Project Title: | Prop 39 - California Clean Energy Jobs Act | |
| TN #: | 211311-2 | |
| Document Title: | Proposition 39: California Clean Energy Jobs Act Guidelines (Final Draft) | |
| Description: | N/A | |
| Filer: | Marites Antonio | |
| Organization: | California Energy Commission | |
| Submitter Role: | Commission Staff | |
| Submission Date: | 4/29/2016 4:12:53 PM | |
| Docketed Date: | 4/29/2016 | |

California Energy Commission **DRAFT GUIDELINES**

Proposition 39: California Clean Energy Jobs Act

2015 2016 Program Implementation Guidelines

California Energy Commission
Edmund G. Brown Jr., Governor



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ACKNOWLEDGEMENTS

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ABSTRACT

The California Energy Commission has developed these guidelines in accordance with Proposition 39 (2012), Senate Bill 73 (Committee on Budget and Fiscal Review, Chapter 29, Statutes of 2013) adopted by the Legislature and signed into law by Governor Edmund G. Brown Jr. on June 27, 2013, and Senate Bill 852 (Budget Act of 2014) adopted by the Legislature and signed into law by Governor Edmund G. Brown Jr., on June 20, 2014, and Assembly Bill 93 (Budget Act of 2015) adopted by the Legislature and signed into law by Governor Edmund G. Brown Jr. on June 24, 2015. Section 26235 (a) of the Public Resources Code requires the California Energy Commission to establish guidelines, in consultation with the State Superintendent of Public Instruction, the Chancellor of the California Community Colleges, and the California Public Utilities Commission.

Nonsubstantive revisions were made on April 20, 2014, and substantive changes were made on June 18, 2014.

Keywords: Proposition 39, California Clean Energy Jobs Act, Job Creation Fund, Senate Bill 73, energy efficiency, clean energy, conservation, conservation corps, school, community college districts, workforce training, education, local educational agency

<u>Marites Antonio,</u> Haile Bucaneg, Joji Castillo, Cheng Moua, <u>Ryan Nelson, Justin Regnier</u>, Elizabeth Shirakh, Joseph Wang. 2015. *Proposition 39: California Clean Energy Jobs -Act –2015 Program Implementation Guidelines.* California Energy Commission, Energy Efficiency Division. Publication Number: CEC-400-2016-XXX-X-XXX-X.

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CHAPTER 1: Background and General Information

The California Clean Energy Jobs Act was created with the approval of Proposition 39 in the November 6, 2012, statewide general election. Proposition 39 added Division 16.3 (commencing with Section 26200) to the Public Resources Code, added Sections 25136, 25136.1, and 25128.7 to the Revenue and Taxation Code, and amended Sections 23101, 25128, 25128.5, and 25136 of the Revenue and Taxation Code. The statute changed the corporate income tax code and allocates projected revenue to the General Fund and the Clean Energy Job Creation Fund (Job Creation Fund) for five fiscal years, beginning with fiscal year 2013-14. Under the initiative, up to \$550 million annually is available to be appropriated by the Legislature for eligible projects to improve energy efficiency and expand clean energy generation.

Assembly Bill 93: 2015-16 California Budget Act appropriated \$360.5 million of Proposition 39 revenue as follows:

Senate Bill 852: 2014-15 California Budget Act appropriated \$354 million of Proposition 39 revenue as follows:

- \$313.4 \$279 million in awards to local educational agencies (LEAs), which include county offices of education, school districts, charter schools and state special schools for energy efficiency and clean energy projects.
- \$38.7 \$39 million in awards to California Ceommunity Ceollege Delistricts for energy efficiency and clean energy projects.
- \$28 million for low-interest and no-interest revolving loans and technical assistance to the California Energy Commission.
- \$3 million to the California Workforce <u>Development Investment</u> Board (CW<u>D</u>IB) to develop and implement a competitive grant program for eligible workforce training organizations to prepare disadvantaged youth, veterans, and others for employment in clean energy fields.
- \$5.4 million to the California Conservation Corps to perform energy surveys and other energy conservation-related activities.

For historical Proposition 39 revenue appropriations, please see Appendix A.

<u>For In the subsequent three</u>-fiscal years <u>2016-17 and 2017-2018</u>2015-16 through 2017-18, LEAs and community colleges will receive allocations from the Job Creation Fund, when funds are appropriated by the Legislature, for eligible energy efficiency and clean energy projects that create jobs in California.

Guidelines Overview

The <u>California</u> Energy Commission has developed the *Proposition 39: California Clean Energy Jobs Act - 2013 Program Implementation Guidelines (Proposition 39 Guidelines*) in accordance with Proposition 39 (2012) and Senate Bill (SB) 73 (Committee on Budget and Fiscal Review, Chapter 29, Statutes of 2013). Public Resources Code Section 26235(a) requires the Energy Commission to establish guidelines, in consultation with the State Superintendent of Public Instruction, the Chancellor of the California Community Colleges, and the California Public Utilities Commission. To navigate the legal requirements of Proposition 39 and SB 73, the statute pertaining to a section of the *Proposition 39 Guidelines* is captured in a box at the beginning of each section.

These guidelines define how the State of California intends to implement the California Clean Energy Jobs Act (Proposition 39) Program. The *Proposition 39 Guidelines* provide direction to potential applicants on the types of awards and required proposals or plans; explains screening and evaluation criteria; describes the standards to be used to evaluate project proposals; and outlines the award process. The Energy Commission has developed these guidelines in accordance with Proposition 39 and SB 73.

In addition to the requirements identified in the guidelines, projects may also be subject to environmental regulations, local permits, and/or construction rules. These additional requirements are not addressed in the guidelines.

The Proposition 39 Guidelines consist of three chapters and appendices.

Chapter 1: Background and General Information

Chapter 2: Local Educational Agency Proposition 39 Award Program

Chapter 3: Additional Proposition 39 State Resources

Appendices: A through I

Funding Distribution

Sections 26227-26233 of the Public Resources Code (added by SB 73) direct the specific allocation of Proposition 39 funding, in addition to specific 2013-14 fiscal year funding amounts for each program element. For the 2014-15 through 2017-18 fiscal years, inclusive, the amount of funding available from the Clean Energy Job Creation Fund (Fund) to all program elements shall be determined in the annual California Budget. The five program elements are listed below with the corresponding funding allocations.- Funding allocations for previous fiscal years are included in Appendix A.

Local Educational Agency Proposition 39 (K-12) Award Program

SB 73 establishes that 89 percent of the funds deposited annually into the Fund and remaining after any transfers or other appropriations be allocated by the State Superintendent of Public Instruction (SSPI) for awards and made available to LEAs for energy efficiency and clean energy projects. The $\underline{2015-16}$ $\underline{2014-15}$ California Budget Act appropriated $\underline{\$313.4279}$ million in fiscal year $201\underline{54}$ - $1\underline{65}$ to the LEA's Proposition 39 program.

California Community College Chancellor's Office

SB 73 establishes that 11 percent of the funds deposited annually into the Fund be allocated to the California Community College Chancellor's Office (CCCCO) to be made available to community college districts for energy efficiency and clean energy projects. The $201\underline{54}$ - $1\underline{65}$ California Budget Act appropriated \$ $\underline{38.739}$ million in fiscal year $201\underline{54}$ - $1\underline{65}$ to the CCCCO's Proposition 39 program.

The CCCCO received legislative exemption from the requirements of the *Proposition 39 Guidelines* for fiscal year 2013-2014 and continues to be exempt in fiscal years 2014-2015 through 2017-2018.

For additional information on the CCCCO's Proposition 39 program, please go to http://www.cccutilitypartnership.com/.

California Energy Commission Energy Conservation Assistance Act -Education Subaccount: Loan and Technical Assistance Grant Program

<u>No funding was The 2014-15 California Budget Act</u> appropriated \$28 million in fiscal year 2014-15 to the Energy Commission for the Energy Conservation Assistance Act – Education Subaccount (ECAA-Ed) in the 2015-16 California Budget Act.

The 2013-14 and 2014-15 California Budget Acts appropriated \$28 million to ECAA-Ed in both fiscal years. Of this amount, about 90 percent was made will be available for low-interest or no-interest loans. The remaining 10 percent was will be transferred to the Commission's Bright Schools Program to provide technical assistance grants to LEAs and community colleges. The Bright Schools Program provides a wide range of technical assistance to LEAs and California Community College Districts (CCCD). This grant program provides services that may include American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Level 2 energy audits, proposal review assistance, and bid specification assistance. Bright Schools's Program technical assistance can provide American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Level 2 energy audits to identify cost-effective energy efficiency measures.

California Workforce Development Investment Board

The 201<u>5</u>4-1<u>6</u>5 California Budget Act appropriated \$3 million in fiscal year 201<u>5</u>4-1<u>6</u>5 to the <u>California Workforce Development Board (CWD</u>†B) to develop and implement a competitive grant program for eligible workforce training organizations, which prepares disadvantaged youth, veterans, or others for employment.

California Conservation Corps

The $201\underline{54}$ - $1\underline{65}$ California Budget Act allocated \$5 million in fiscal year $201\underline{54}$ - $1\underline{65}$ to the California Conservation Corps (CCC) for energy surveys and other energy conservation-related activities for public schools.

Guidelines Authority

These *Proposition 39 Guidelines* are adopted pursuant to Public Resources Code Sections 25218(e) and 26235, which authorize the Energy Commission to adopt guidelines governing the estimation of energy benefits, contractor qualifications, and project evaluation for the Proposition 39 program. The guidelines are exempt from the procedural requirements of the Administrative Procedure Act, as specified in Chapter 3.5 (commencing with Section 11340) of Part 1 of Division 3 of Title 2 of the Government Code. The guidelines may be revised pursuant to Public Resources Code Section 26235, Subdivision (d)(1).

Confidentiality

Persons or entities seeking a confidential designation for data shall follow the process identified in California Code of Regulations, Title 20, Section 2501 et seq.

Effective Date of Guidelines

The *Proposition 39 Guidelines* were adopted by the Energy Commission on December 19, 2013. Nonsubstantive revisions were made on April 30, 2014, and the first substantive changes were adopted by the Commission on June 18, 2014. -The second substantive changes were adopted by the Energy Commission on December 10, 2014. -The Guidelines can be viewed on the Commission's website at: www.energy.ca.gov/efficiency/proposition39/index.html. To obtain a hard copy, contact the Commission at:

California Energy Commission
Efficiency Division
Local Assistance and Financing Office
1516 Ninth Street, MS-23
Sacramento, CA 95814
E-mail: prop39@energy.ca.gov

Substantive Changes in Guidelines

After adoption, substantive changes to the adopted *Proposition 39 Guidelines* may be made with the approval of the Energy Commission at a publicly noticed meeting with no fewer than 15 days public notice. Unless stated otherwise in the resolution approving substantive changes, such changes shall take effect upon adoption by the Commission. Substantive changes for the Proposition 39 program, policy, or design include but are not limited to:

- Changes in evaluation criteria.
- Changes in funding criteria for determining award amount to conform with statutory changes.

Nonsubstantive Changes in Guidelines

If the final *Proposition 39 Guidelines* require nonsubstantive changes, the Energy Commission will provide a notice of the changes to the Proposition 39 program listserve and post the amended guidelines on the Proposition 39 web page.

CHAPTER 2: Local Educational Agency Proposition 39<u>(K-12)</u> Award Program

The SSPI is responsible for administering awards to LEAs that serve grades K-12 students. These funds may be used by LEAs for energy efficiency and clean energy projects, related energy planning, energy training, energy management, and energy projects with related non-energy benefits. LEAs are required to submit an energy expenditure plan to the Energy Commission for consideration and approval. Funds are released to the LEA only after the Commission approves an LEA's energy expenditure plan(s).

Eligibility

Eligible Energy Projects

An eligible energy project is an energy efficiency measure or bundled group of energy efficiency measures and/or clean energy installations (in or at one or more school sites) within an LEA.

Large Eligible Energy Project

A large eligible energy project is an energy efficiency measure or bundled group of energy efficiency measures and/or clean energy installations with a project cost (Proposition 39 funding share) totaling more than \$250,000 in or at a single school site.

Eligible Applicants

LEAs, which include county offices of education, school districts, charter schools, and state special schools, are eligible for program funding.

All facilities within the LEA are eligible for Proposition 39 program funding. These facilities include school facilities, as well as LEA office facilities. In addition to classrooms, other school building areas such as auditoriums, multipurpose rooms, gymnasiums, cafeterias, kitchens, pools, and special purposes areas (school/district office, library, media center, and computer and science labs) can be considered for energy efficiency measures and clean energy installations.

Generally, LEAs are located in publicly owned facilities, which they may or may not lease. Other LEAs lease privately owned facilities with varied utility payment agreements. In addition, a few LEAs own their school facility. Eligibility for LEAs in each of these categories is as follows:

Eligibility of LEAs in Publicly Owned Facilities

An LEA in a publicly owned facility, whether or not it has a signed lease with the host school district or other public entity, may use Proposition 39 program funding. There are no additional cost-effectiveness criteria requirements. These LEAs follow the general Proposition 39 program cost-effectiveness determination as described in Step 6 of these guidelines. LEAs using a host LEA's facility will need to work closely with that host to ensure each LEA's Proposition 39 award funding is used for eligible energy projects on the facility (ies) it occupies.

Eligibility of LEAs in Privately Owned Leased Facilities

Privately Owned Leased Facilities

LEAs, in particular charter schools, may lease privately owned facilities. These LEAs follow the general Proposition 39 program cost-effectiveness determination as described in Step 6 of these guidelines. In addition, LEAs in privately owned leased facilities may use Proposition 39 program funding with the following condition.

If the LEA is a charter school but has not renewed its charter term at least once prior to applying for Proposition 39 program funding, a charter school in a privately owned leased facility must also meet the additional cost-effectiveness criteria below:

 Cost-effectiveness criteria. In addition to meeting the savings-to-investment ratio (SIR) of 1.05, the eligible energy project must have a simple payback within the remaining period of the "charter contract term."

To calculate the simple payback of an energy project, first determine the total energy project costs and, second, determine total annual project savings. Next, divide the total cost by the total annual savings. This calculation shows how fast the energy project will "pay back" the initial investment. The eligible energy project must have a simple payback within the term of the charter contract term.

Simple Payback = Project Cost (\$)/Annual Savings (\$/year)

A Private Building Owner Written Certification to Transfer Energy Cost Savings to LEA
To ensure an LEA in a privately owned leased facility receives the energy cost
savings cost benefit of the Proposition 39 program-funded energy measures, a building owner
written certification is required if:

- An LEA leases a privately owned facility or building that does not have a separate meter.
- An LEA leases a privately owned facility or building, and the lease payment includes the utility cost.

If either of the above conditions applies, the building owner must commit to transferring the cost savings of the energy improvements to the LEA tenant, either through a reduced lease payment or other form of monetary reimbursement.

Eligibility of LEAs in Their Own Privately Owned Facilities

LEAs, in particular charter schools, may own their school building(s). These LEAs follow the general Proposition 39 program cost-effectiveness determination as described in Step 6 of these guidelines. In addition, an LEA in a privately owned facility may use Proposition 39 program funding with the following condition.

If the LEA is a charter school but has not renewed its charter term at least once prior to applying for Proposition 39 program funding, a charter school in a privately owned facility must also meet the additional cost-effectiveness criteria below:

• *Cost-effectiveness criteria*. In addition to meeting the SIR of 1.05, the eligible energy project must have a simple payback within the remaining period of the "charter contract term."

Schedule

| | SCHEDULE MILESTONES | DATE |
|---|---|---|
| • | SSPI to release energy audit and planning funds | November 2013, March 2014, May 2014 and each subsequent January |
| • | Energy Commission to begin accepting energy expenditure plan proposals | January 2014 |
| • | SSPI began processing award allocations for approved energy expenditure plans | Quarterly beginning in June 2014 |
| • | Two fiscal year combined funding award requests | September 1 (annually) Not offered September 2017-18 |
| • | Award calculation completed by the California Department of Education (CDE) | October 30 (annually) |
| • | SSPI to begin allocating awards for approved multiple-year energy expenditure plans | January (annually) |
| • | LEAs <u>final</u> project completion reporting | Ongoing |
| • | LEAs expenditure reports to Citizens Oversight Board (COB) and Energy Commission | October 1 (annually beginning 201 <u>6</u> 5) |
| • | Energy Commission report to Citizens Oversight Board (COB) | January <u>3</u> 1 (annually beginning 2016) |
| • | LEAs final encumbrance date | June 30, 2018 |
| • | Final date all projects must be completed | June 30, 2020 |
| • | LEAs final project reporting date | June 30, 2021 |

Award Allocations

Per SB 73, the SSPI will allocate funding awards on a formula-based method: 85 percent based on average daily attendance¹_(ADA) reported as of the second principal apportionment for the prior fiscal year (P-2) and 15 percent based on the number of students eligible for free and reduced-priced meals (FRPM) in the prior year. This allocation formula includes minimumfunding award levels in a four-tiered system, as illustrated in **Table 1**.

Table 1: Minimum Funding Award Levels

| Tier Levels | Average Daily Attendance Prior Year | Minimum Funding Awards | |
|-------------|---|--|--|
| Tier 1 | 100 or fewer | \$15,000 plus FRPM | |
| Tier 2 | 101-1,000 | Based on prior year ADA or \$50,000 (whichever amount is larger) plus FRPM | |
| Tier 3 | 1,001 to 1,999 | Based on prior year ADA or \$100,000 (whichever amount is larger) plus FRPM | |
| Tier 4 | 2,000 or more | Based on prior year ADA plus FRPM | |

Source: California Energy Commission

¹ Education Code Section 46303.

⁽a) If any computation of average daily attendance made under, or necessitated by, any provision of law, results in a fraction of less than one-half of a unit, the average daily attendance shall be taken as the next lowest whole number, except that if such computation results in an average daily attendance of less than one unit, the average daily attendance shall be deemed to be one unit; but if the fraction is one-half or more of a unit, the average daily attendance shall be taken as the next highest whole number, and (b) Whenever any reference is made to a specific whole number of units of average daily attendance said number shall include any fraction above said number which is less than one-half of a unit, and any fraction of one-half or more of a unit above the next lowest whole number.

Annual Award Calculation

The California Department of Education (CDE) will calculate the LEA funding awards each fiscal year. Once the CDE compiles prior year ADA and FRPM information, the CDE will calculate total awards for all LEAs based on the amount appropriated for Proposition 39 during the annual budget process and the number of LEAs requesting two years of funding (see below) in the current year (and taking into account the minimum award requirements).

LEAs are cautioned not to rely on calculations or estimates by entities other than the CDE. The final CDE 2013-14 to 2015-2016 fiscal year awards are listed at: http://www.cde.ca.gov/fg/aa/ca/prop39cceja.asp

http://www.cde.ca.gov/fg/fo/r14/prop39cceja13rfa.asp.

Interest Earned on Proposition 39 Funds

Any interest earned on Proposition 39 funds shall only be expended toward Proposition 39 eligible energy projects. LEAs should make every effort to track interest earned from Proposition 39 allocations separately for use on Proposition 39 eligible energy projects and to facilitate auditing in accordance with PRC 26206(e) and 26240(h)(1).

Two-Year Combined Award Option (Funding Award – Tier 1 and Tier 2)

LEAs with 1,000 or fewer prior year ADA are eligible to receive both the current year and the following year funding in the current year. To request the two-year combined funding, apply online at:

http://www.cde.ca.gov/fg/fo/r14/prop39cceja15rfa.asp http://www.cde.ca.gov/fg/fo/r14/prop39cceja15rfa.asp http://www.cde.ca.gov/fg/fo/r14/prop39cceja15rfa.asp

- By September 1, 2014, for 2014-2015 and 2015-2016 award
- By September 1, 2015, for 2015-2016 and 2016-2017 award
- By September 1, 2016, for 2016-2017 and 2017-2018 award

LEAs selecting this option shall not receive a funding allocation in the year following the request.

Qualifying LEAs can select this option twice during the five-year Proposition 39 program. For example, an LEA may have selected this option in 2013 receiving its 2013-2014 and 2014-2015 two-year combined award in 2013. This LEA would be eligible to select this option again in 2015, requesting their 2015-2016 and 2016-2017 award allocations, or in 2016, requesting its 2016-2017 and 2017-2018 award allocations.

Energy Planning Funds Reservation Option

LEAs whose first year of eligibility was fiscal year 2013-14, the first year of the program, had the option of requesting a portion of that year's award allocation for energy planning activities in 2013-14 without submitting an energy expenditure plan(s) to the Energy Commission. This option was available only for the fiscal year 2013-14 award allocation of the Proposition 39

program and was intended to be used for planning activities for subsequent fiscal years (2013-14 through 2017-18).

LEAs whose first year of program eligibility occurs after fiscal year 2013-14 may request energy planning funds in their respective first year of eligibility. CDE will notify the eligible LEAs each fiscal year of their opportunity to request planning funds.

For LEAs eligible to apply for energy planning funds in fiscal year 2013-2014, the first application was due on November 1, 2013. A second application period was available in January 2014, and a third in April 2014. For fiscal year 2015-16, the energy planning funds application was due January 8, 2016. LEAs applied online at:

http://www.cde.ca.gov/fg/fo/r14/prop39cceja15rfa.asp

Allowed Energy Planning Activities

The energy planning funds can be spent only on the following four activities:

- Energy audits and energy surveys/assessments
- Proposition 39 program assistance
- Hiring or retaining an energy manager(s)
- Energy-related training

Table 2 provides a detailed description of <u>allowed energy planning activities</u>each activity. Planning funds may be used for any of these activities at the LEA's discretion. Table 2 also provides "Best Practices Cost Guidance" for energy audits, energy surveys, and data analytics.

Table 2: Energy Planning Activities

| Pre-Expenditure Plan Approved Activities | Description of Activity | Best Practices Cost Guidance |
|---|--|--|
| | utility billing data and calculations of energy use intensity (EUI) and a walk-through of the facility. The audits shall also provide a list of all energy efficiency measures recommended for implementation and shall include detailed costs for energy measures, energy savings calculations, and financial analysis of proposed energy efficiency measures. The financial analysis shall provide a comprehensive understanding of the financial benefits of implementing the specific energy efficiency measure recommendations and include a savings-to-investment ratio (SIR) according to the guidelines. Energy modeling is considered part of an ASHRAE Level 2 energy audit. Energy surveys and data analytics may be used as tools to identify | \$0.15 - \$0.20 per gross square foot ² |
| Energy Surveys & Data Analytics | opportunities for energy efficiency measures at LEA facilities. When energy measures are identified by these tools, LEAs can use the Energy Commission calculators to determine energy savings. | gross square foot |
| , | Additional information on the energy saving calculators can be found in the Energy Expenditure Plan Handbook. | |
| Assistance | If an LEA needs assistance completing the Proposition 39 program requirements, it may use part of the award for Proposition 39 program assistance activities. For example, LEAs are required to provide electric and gas usage/billing data, complete benchmarking, submit an energy expenditure plan(s), and complete reporting requirements necessary to receive eligible energy project funding under this program. Energy planning funds requested for Proposition 39 program assistance activities can be used to complete any of the required Proposition 39 program steps. | |
| Energy Manager | An energy manager's responsibility is to improve energy efficiency by evaluating the school's energy use and implementing energy policies, strategies, programs, and energy measures. Energy managers may review related work that could improve health and safety or classroom conditions. Typical work responsibilities include, but are not limited to, evaluating and monitoring current energy usage, identifying energy saving opportunities in existing facilities, ensuring accurate records are maintained, providing technical energy efficiency and conservation services, and managing all stages of energy project implementation. | |
| Energy-Related Training | Energy efficiency training of classified school employees. | |

Source: California Energy Commission

 $^{2\ ^{\}prime\prime} Gross^{\prime\prime}$ means all the square footage inside the perimeter of exterior walls (less courtyards).

Maximum Energy Planning Award Funding Request

- 1) LEAs with first-year awards of \$433,000 or less may request up to \$130,000 of their first-year award for planning activities.
- 2) LEAs with first-year award of \$433,001 or more may request up to 30 percent of their first-year award for planning activities.

Tier 1 and Tier 2 LEAs that elect to receive two years of award funding in their first year of program eligibility may request up to one-half of the combined award.

Unused Energy Planning Awards

Any unused energy planning funds shall be applied toward implementing eligible energy project(s) approved as part of an LEA's energy expenditure plan(s).

If an LEA decides to request only a portion of its first-year award for energy planning, the energy planning funding requested will be subtracted from the total award, and the remaining funding will be available for implementing eligible energy projects through the energy expenditure plan process.

Retroactive Planning Activities

Proposition 39 funding may only pay for energy planning activities occurring on or after July 1, 2013. If energy planning activities took place before July 1, 2013, those energy planning activities are not eligible for retroactive Proposition 39 funding.

Reporting Planning Activities and Expenditures

All LEAs shall report their budgeted planning activities and actual planning expenditures as part of their energy expenditure plan.

New Charter Schools Commencing Instruction in 2013-2014 or Later

For new charter schools that commence instruction in fiscal year 2013-14 or later, energy planning funds for those new schools will be available in the first fiscal year of Proposition 39 funding eligibility, so long as prior year average daily attendance (ADA) counts are provided during the second principal apportionment reporting period. For example, a charter school that begins instruction in fiscal year 2013-14 can use fiscal year 2014-15 award funds for planning activities, provided 2013-14 ADA counts are available.

These charter schools may retroactively pay for energy planning activities dating back to July 1 of the prior fiscal year, from the first year of Proposition 39 funding eligibility. For example, if a charter school's first Proposition 39 funding eligibility is in fiscal year 2015-16, the charter school can use energy planning funds to pay for energy planning activities occurring on or after July 1, 2014.

Large Eligible Energy Project Award Requirements (Tier 4 Awards)

Public Resources Code section 26233(b)(3) states, "For every LEA that receives over one million dollars (\$1,000,000) pursuant to this subdivision, not less than 50 percent of the funds shall be used for projects larger than two hundred fifty thousand dollars (\$250,000) that achieve substantial energy efficiency, clean energy, and jobs benefits."

LEAs that receive an award of more than \$1 million in any one fiscal year are required to submit an energy expenditure plan that meets the large eligible energy project requirement highlighted above. A *large eligible energy project* is defined as an energy efficiency measure or bundled group of energy efficiency measures and/or clean energy installations with a project cost (Proposition 39 funding share) totaling more than \$250,000 in or at a single school site.

Leveraging Award Funding

Public Resources Code Section 26235(g) states, "This section shall not affect the eligibility of any eligible entity awarded a grant pursuant to this section to receive other incentives available from federal, state, and local governments or from public utilities or other sources or to leverage the grant from this section with any other incentive."

LEAs may pursue other programs and incentives to leverage Proposition 39 awards, such as, but not limited to:

- The Energy Commission's Bright Schools Program "no-cost" energy efficiency audits
- California Conservation Corps "no-cost" and "low-cost" energy efficiency data collection and energy efficiency surveys
- Local government programs
- Utility programs
- The Energy Commission's ECAA-Ed Loan Program
- Bond funding
- Other private capital funding

Award Funding for Energy-Related Training

Public Resources Code Section 26235(a)(6) identifies as a *Proposition 39 Guidelines* component "Where applicable, ensuring LEAs assist classified school employees with training and information to better understand how they can support and maximize the achievement of energy savings envisioned by the funded project."

For years 2-5 of the Proposition 39 program, energy-related training funds may be requested as part of an energy expenditure plan. Therefore, for fiscal years 2014-15 through 2017-18, an LEA has the option of requesting up to two percent of its annual award allocation for energy efficiency training of classified school employees.

Award Funding for Energy Manager

For years 2 -5 of the Proposition 39 program, energy manager funds may be requested as part of an energy expenditure plan. Therefore, for fiscal years 2014-15 through 2017-18, an LEA has the option of requesting up to 10 percent of its annual award allocation to hire or retain an energy manager(s). Many LEAs do not have the staff, knowledge, or time to effectively control and manage energy costs. Therefore, LEAs may consider using an energy manager(s) who can actively work to reduce the energy operational costs of a school and provide more control over energy costs. Energy manager(s) may be LEA staff or outside consultants.

LEAs too small to justify hiring an energy manager may consider pooling their energy manager funding and sharing the services of an energy manager.

Award Funding for Non-Energy Benefit Projects

Public Resources Code Section 26205(a)(1) allows for funding of non-energy benefit projects by stating, "Public schools: Energy efficiency retrofits and clean energy installations, along with related improvements and repairs that contribute to reduced operating costs and improved health and safety conditions, on public schools."

Non-energy benefits include other associated energy project benefits such as health, safety, enhanced comfort, better indoor air quality, and improvements to the learning environment. The SIR calculator explained in detail in Appendix D uses a five percent adder to estimate non-energy benefits associated with all energy efficiency projects.

Process to Receive K-12 Eligible Energy Project Award Funding

LEAs need to follow the eight-step process described in this section to participate in the Proposition 39 program.

Step 1: Electric and Gas Usage/Billing Data

Public Resources Code Section 26240(a) states, "In order to later quantify the costs and benefits of funded projects, an entity that receives funds from the Job Creation Fund shall authorize its local electric and gas utilities to provide 12 months of past and ongoing usage and billing records at the school facility site level to the Energy Commission."

The first step to receive program award funds for eligible energy project implementation is to provide the Energy Commission access to utility usage and billing data at the school site level. Each LEA must use the Facility and Service Account Information Form (CEC- 24) to identify all electric and natural gas accounts for all its schools and facilities under its jurisdiction, and provide a signed uUtility dData rRelease Authorization fForm (CEC-12) allowing the Energy-Commission to access both historical (the past 12 months) and future utility billing data through 2023 for all-accounts. By signing the CEC-12 utility data release form, an LEA is authorizing the utility and the Energy Commission access to all accounts under an LEA (including all of its schools and facilities, with or without a planned or active eligible Proposition 39 program energy projects), even if they are not explicitly included in the CEC-12utility data release form. Access to utility data will include all schools and facilities under the <u>jurisdiction of within an LEA₇, not just schools and facilities with planned or active eligible</u> Proposition 39 program energy projects. LEAs will only need to submit a copy of the signed CEC-12 utility data release-form the first time they submit an energy expenditure plan. The original signed <u>CEC-12</u>utility data release form must be submitted to their utility. The <u>CEC-12</u> and CEC-24 Energy Commission's Proposition 39 website includes a Proposition 39 program utility data release authorization forms(s) are available at: http://www.energy.ca.gov/efficiency/proposition39/index.html. LEAs must use this form to

submit their request for Energy Commission access to usage data to their utility.

If an LEA has separate providers for gas and electricity, the LEA will need to complete two <u>sets</u> of <u>CEC-12</u> and <u>CEC-24</u> data release forms—one for the gas company and one for the electric company. Once the <u>energy data release forms</u> are <u>completed is signed</u> by the LEA, the <u>Energy-Commission</u> will work directly with the utility (ies) to transfer the LEA's energy <u>usage usage and billing</u> data to the <u>Energy-Commission</u>.

Table 3-on the next page, provides the utility <u>usage and</u> billing data reporting schedule for utilities to <u>begin</u> transfer<u>ring</u> LEA energy usage dat<u>a</u> to the Energy Commission. For example, The historic billing data is the July 1 through June 30 fiscal year which immediately precedes the fiscal year in which the LEA submits an energy expenditure plan to the Energy Commission. Future fiscal year u <u>Utility usage and billing data is reported</u> report<u>ing period will be ongoing ed annually on December 31 until June 30, 2023. The report is due annually to the Energy Commission by December 31 as noted.</u>

For example, data reporting for the period of July 1, 2015 through June 30, 2016, is due by December 2017. This allows utilities eighteen months to collect and transfer the previous fiscal year's data to the Commission.

Table 3: Utility Billing Data Reporting Schedule

| 1 st Energy Expenditure Plan Submission Period | 1st Date Utilities Required to Report to Energy Commission | Historic Utility Billing Data Reporting Period | Future Utility Billing Data Reporting Period |
|---|--|---|--|
| 1/1/2014 - 6/30/2014 | 12/31/2014 | 7/1/2012 – 6/30/13 | 7/1/2013 – 6/30/23 |
| 7/1/2014 – 6/30/2015 | 12/31/2015 | 7/1/2013 – 6/30/14 | 7/1/2014 - 6/30/23 |
| 7/1/2015 - 6/30/2016 | 12/31/2016 | 7/1/2014 – 6/30/15 | 7/1/2015 – 6/30/23 |
| 7/1/2016 - 6/30/2017 | 12/31/2017 | 7/1/2015 – 6/30/16 | 7/1/2016 – 6/30/23 |
| 7/1/2017 - 6/30/2018 | 12/31/2018 | 7/1/2016 – 6/30/17 | 7/1/2017 – 6/30/23 |

Source: California Energy Commission

<u>Table 3: Utility Usage and Billing Data Reporting Schedule</u> (Utilities to report annually to the Energy Commission by December 31)

| Initial Energy Expenditure Plan Submission Period | Initial Data Reporting Period: | Ongoing Data Reporting Period: |
|---|--------------------------------|--------------------------------|
| <u>1/1/2014 – 6/30/2014</u> | 7/1/2012 – 6/30/13 | 7/1/2013 – 6/30/23 |
| 7/1/2014 - 6/30/2015 | 7/1/2013 – 6/30/14 | 7/1/2014 – 6/30/23 |
| 7/1/2015 – 6/30/2016 | <u>7/1/2014 – 6/30/15</u> | <u>7/1/2015 – 6/30/23</u> |
| 7/1/2016 – 6/30/2017 | <u>7/1/2015 – 6/30/16</u> | 7/1/2016 – 6/30/23 |
| 7/1/2017 - 6/30/2018 | 7/1/2016 – 6/30/17 | 7/1/2017 – 6/30/23 |

Source: California Energy Commission

Step 2: Benchmarking or Energy Rating System

Public Resources Code Section 26235(a)(3)(A) states the Energy Commission shall establish guidelines for "benchmarks or energy rating systems to select best candidate facilities."

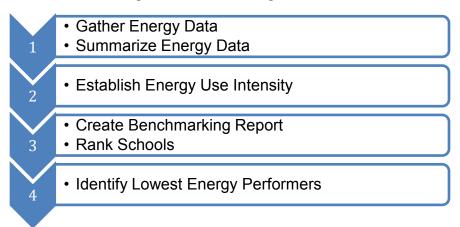
As part of the project evaluation, an LEA must benchmark to determine the energy use intensity (EUI) of any school site that receives Proposition 39 program funding. Benchmarks provide important information about the energy usage of a school site. This information is similar to the miles-per-gallon metric for vehicle fuel economy; EUI reflects the rate of energy use of a school site. LEAs can easily conduct their own benchmarking process. Complete, detailed benchmarking instructions are found in Appendix C. The Energy Commission has incorporated Appendix C methodology to create a benchmarking calculator embedded into the energy expenditure plan form. Benchmarking results will include: 1) total energy cost/square footage/year; and 2) annual total Kbtus³/square footage/year.

LEAs only need to benchmark school sites where Proposition 39 funds will be used for eligible energy projects. LEAs can choose to benchmark more school sites if that is beneficial to their energy planning and school site selection process.

The Benchmarking Process

The benchmarking process begins with data-gathering and concludes with a prioritized plan for implementing eligible energy projects.

Figure 1: Benchmarking Process



Source: California Energy Commission

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³ One thousand British thermal units.

Energy Benchmarking Resources and Tools

In addition to the method presented in the appendices, some benchmarking tools such as the U.S. EPA's ENERGY STAR® "Portfolio Manager" and Lawrence Berkeley National Laboratory's "Energy IQ" are also available for free. Other acceptable benchmarking systems may be available from your local utilities, ASHRAE, or private building simulation vendors. Any of these benchmarking models can be used to determine the EUI of a facility. While the capabilities and functions of these benchmarking tools are different, each is a means to identify and prioritize school site energy use and potential eligible energy projects.

Step 3: Eligible Energy Project Prioritization Considerations

Public Resources Code Section 26235(e)(1-11) requires that "each participating LEA shall prioritize the eligible projects within its jurisdiction taking into consideration, as applicable, at least the following factors:

- (1) The age of the facility, as well as any plans to close or demolish the facility.
- (2) The proportion of pupils eligible for funds under Title I of the federal No Child Left Behind Act of 2001 (20 U.S.C. Sec. 6301 et seq.) at a particular school site.
- (3) Whether the facilities have been recently modernized.
- (4) The facilities' hours of operation, including whether the facilities are operated on a year-round basis.
- (5) The school's energy intensity as determined from an energy rating or benchmark system such as the United States Environmental Protection Agency's Energy Star system or other acceptable benchmarking approach that may be available from local utilities, the American Society for Heating, Refrigerating, and Air-Conditioning Engineers, Inc., or reputable building analysis software as is appropriate to the size, budget, and expertise available to the school.
- (6) The estimated financial return of each project's investment over the expected life cycle of the project, in terms of net present value and return on investment.
- (7) Each project's potential for energy demand reduction.
- (8) The anticipated health and safety improvements or other non-energy benefits for each project.
- (9) The individual or collective project's ability to facilitate matriculation of local residents into statecertified apprenticeship programs.
- (10) The expected number of trainees and direct full-time employees likely to be engaged for each LEA's annual funding commitments based upon a formula to be made available by the Energy Commission or California Workforce Investment Board. The formula shall be stated as labor intensities per total project dollar expended and may differentiate by type of improvement, equipment, or building trade involved.
- (11) The ability of the project to enhance workforce development and employment opportunities, use members of the California Conservation Corps, certified local conservation corps, Youth Build, veterans, Green Partnership Academies, nonprofit organizations, high school career technical academies, high school regional occupational programs, or state-certified apprenticeship programs, or to accommodate learning opportunities for school pupils or at-risk youth in the community."

Each LEA shall consider these 11 factors when considering and prioritizing eligible energy projects for program awards. For all energy expenditure plans, an LEA is required to certify that it considered these factors. (Factors 4-7 are built into the benchmarking requirement in Step 2 and the cost-effectiveness requirement in Step 6.)

Step 4: Sequencing of Facility Improvements

Public Resources Code Section 26235(a)(3)(C) states the Energy Commission shall establish guidelines for sequencing of facility improvements.

The Energy Commission recommends LEAs use the eligible energy project sequencing approach (below) for reducing energy use. This means implementing energy efficiency and demand reduction measures first.

Sequencing Approach

- 1) First, maximize energy efficiency (for example, installing daylighting or energy management systems).
- 2) Next, consider clean energy generation (for example, solar photovoltaic generation systems, solar water heating systems, wind, or an efficient biogas-fueled fuel cell or combined heat and power system).
- 3) Finally, consider nonrenewable energy generation measures (such as an efficient natural gas-fueled fuel cell or combined heat and power project system).

Step 5: Eligible Energy Measure Identification

Public Resources Code Section 26235(a)(3)(B) states that the Energy Commission shall establish guidelines for "the use of energy surveys or audits to inform project opportunities costs and savings."

LEAs shall use any of the three methods to identify eligible energy projects: 1) an energy survey; 2) an ASHRAE Level 2 energy audit; or 3) data analytics. For any approach, the Energy Commission reserves the right to assess the reasonableness of any project cost and energy savings estimates and may request additional information from the LEA to support the funding request. If an LEA has an existing energy survey, ASHRAE Level 2 energy audit, or data analytics report completed within the past five years, it may use this information to identify eligible energy projects. However, project costs and energy savings can change over time; therefore, LEAs may consider updating an energy audit prior to submitting their energy expenditure plan(s).

Additional information on eligible energy project supporting documentation is included in the *Energy Expenditure Plan Handbook*.

Method 1: Energy Survey

Some LEAs may have energy efficiency opportunities that do not require an ASHRAE Level 2 energy auditThe Energy Commission has developed energy savings calculators to evaluate simple energy efficiency measures. These calculators could include simple energy efficiency measures such as retrofitting fluorescent light fixtures and or adding occupancy sensor controls to lighting systems. LEAs using Method 1In these cases, the LEA may choose to shall use

the Energy Commission's energy savings calculators tools for all submitted measures to estimate the energy savings of one or various energy efficiency measures.

These energy savings calculators tools is is located on the Energy Commission's Proposition 39 Web page at: http://www.energy.ca.gov/efficiency/proposition39/index.html.

Additional information and instructions on how to utilize the energy savings calculators tools-is are included in the *Energy Expenditure Plan Handbook*.

LEAs using Method 1 are still expected to survey their buildings or facilities, identify their energy efficiency measures and submit project information in their energy expenditure plans (see Step 7). Energy surveys must include a description of the existing energy-using equipment (that is, type, age of equipment, size, number of units, and operating hours), and the energy savings estimates from the online energy savings calculators tool. Method 1 must include:

- A description of the proposed energy efficiency measures and the buildings or facilities that will be improved by these measures.
- A description of the existing energy-using equipment (that is, type, age of equipment, size, number of units, operating hours and so forth).
- Energy savings estimates from the online energy savings calculator tool.
- A proposed budget detailing all energy efficiency measure costs.

Additional information on eligible energy project supporting documentation is included in the *Energy Expenditure Plan Handbook*.

Method 2: ASHRAE Level 2 Energy Audit

An energy audit is required when estimates for energy savings are calculated with a source other than an Energy Commission energy savings calculator. Some complex energy efficiency measures will likely need an ASHRAE Level 2 energy audit to clearly identify measure cost and estimated energy savings. An LEA may choose to select a third-party contractor, utility program audit, or LEA staff energy manager to complete an ASHRAE Level 2 energy audit. Energy audits Method 2 must include:

- A description of the proposed energy efficiency measures and the buildings or facilities that will be improved by these measures.
- A description of the existing energy-using equipment (that is, type, age of equipment, size, number of units, operating hours and so forth).
- All calculations and assumptions to support the technical feasibility and energy savings of the recommended energy efficiency measures.
- A proposed budget detailing all energy efficiency measure costs.

Additional information on eligible energy project supporting documentation is included in the *Energy Expenditure Plan Handbook*.

Method 3: Other Energy Efficiency Measure Screening Tools: Data Analytics

Public Resources Code Section 26235(b) states that "the Energy Commission shall allow the use of data analytics of energy usage data where possible in the energy auditing evaluation inventorying measuring and verification of projects. To ensure quality of results data analytics providers shall receive prior technical validation by the Energy Commission a local utility or the Public Utilities Commission."

Data analytics refers to what is typically called a "no-touch" or web-based "virtual" energy audit assessment. A data analytics provider evaluates energy usage of a facility from metered data and other public information sources, such as digital photographs, satellite, and aerial images, and provides an assessment that includes, benchmarking analysis report with energy efficiency measure recommendations without ever entering the facility. This technique combines the benchmarking process and the energy survey described in Method 1 above. LEAs may want to consider a no-touch audit as a tool to help them prioritize facilities within the LEA or energy efficiency measures. This is a new area of building energy science, and the Energy Commission and the California Public Utilities Commission do not currently offer technical validation and have not set standards. The Energy Commission plans to develop standards for data analytics.

To expend Proposition 39 award funds for these data analytics, an LEA must provide documentation of prior technical validation of the technology by an electric and/or gas utility. In addition, an LEA can provide documentation that a data analytics provider has undergone numerous detailed evaluations such as, technical review by an electric and/or gas utility, as part of a competitive bid process or product evaluation. An LEA may also provide documentation of United States federally-funded scaled comparison to on-site audits. If such an analytics data provider has been deemed as comparable and/or providing complementary results to an on-site audit, an LEA may provide documentation for approval of the use of such analytics provider.

Step 6: Cost-Effectiveness Determination

Public Resources Code Section 26206(c) states, "All projects shall be cost effective: total benefits shall be greater than project costs over time." Section 26235(a)(3)(D) states the Energy Commission shall establish guidelines for "methodologies for cost-effectiveness determination."

An eligible energy project is an energy efficiency measure or bundled group of energy efficiency measures and/or clean energy installations (in or at one or more school sites) within an LEA.

An eligible energy project must achieve a minimum savings-to-investment ratio (SIR) of 1.05 to be approved for a Proposition 39 award. This ratio compares the investment the LEA will make now, with the dollar savings the LEA will realize from the energy savings of the eligible energy project. For every dollar invested in the eligible energy project, the LEA will accrue \$1.05 in

savings. The SIR is based on the cumulative present value of the savings benefits realized over the life of the eligible energy project. Related performance, health and safety improvements are an allowable project cost as long as the combined cost of the eligible energy project and related health and safety improvement costs result in a minimum SIR of 1.05.

For energy expenditure plans that include only one school site, individual energy efficiency measures may have an SIR lower than 1.05, but the eligible energy project (bundled energy measures) for the school site must achieve a minimum SIR of 1.05. For energy expenditure plans that include more than one school site, measures installed at individual school sites, including those implemented in a large eligible energy project, may have an SIR lower than 1.05, but the eligible energy project (bundled energy measures) for all school sites must achieve a minimum SIR of 1.05.

To determine the SIR<u>T</u>the energy expenditure plan includes the Energy Commission-SIR calculationor. The Energy Commission SIR calculator provides the It also provides an-SIR for each energy efficiency measure, as well as a combined SIR value for the eligible energy project. The SIR calculator is available as part of the energy expenditure plan at the Energy Commission's Proposition 39 web page

at: www.energy.ca.gov/efficiency/proposition39/index.html.

To use the SIR calculator, input tThe following values for each proposed energy efficiency measure are needed for the SIR calculation:

- 1) Annual energy savings (kWh, therms, gallons)
- 2) Demand savings (kW)
- 3) Annual energy cost savings
- 4) Project installation cost
- 5) Rebates/other financial incentives
- 6) Other matching grants (Any matching grant funds [not including Proposition 39 awards] used to finance the project. This is funding that does not need to be repaid.)

Appendix D explains the SIR calculation, including all assumptions built into the SIR formula.

Appendix E illustrates the effective useful life (in years) for energy measures.

Appendix F discusses power purchase agreement SIR calculation and conditions.

SIR Alternative Zero Net Energy LEAs

If prior to December 19, 2013, each school site within an LEA had zero dollar utility bills or a positive utility bill credit from excess clean energy generation, the LEA may consider submitting an energy expenditure plan with eligible energy projects using an SIR alternative process described below:

An LEA shall submit a narrative describing the facility(ies) background(s), the clean energy generation project(s) and the energy saving information which demonstrates how

the proposed eligible energy measures meet the Public Resources Code 26206(c) "All projects shall be cost effective: total benefits shall be greater than project costs over time."- The LEA must describe its methodology for determining cost effectiveness and explain how it complies with this Public Resources Code section.

LEAs with "First Preference" Power Rates

Three rural California counties (Calaveras, Tuolumne, and Trinity) receive a *First Preference* Federal Power rate. In the 1950s and 1960s, the Federal government acquired large portions of county land for the construction of hydroelectric projects in these counties. As compensation for the negative impacts (loss of taxable land, loss of agricultural land, and loss of local water resources), government entities' including public schools, were compensated by a reduced electricity charge at a *First Preference* power rate.

<u>LEAs receiving First Preference</u> power rate can submit an energy expenditure plan with eligible energy projects using the SIR alternative process described below:

LEAs receiving a First Preference electric rate may use the alternative electric rate of \$.132/kWh.- This alternative electric rate was calculated by the First Preference public power agencies based on the "true cost" of electric power when considering the lost tax revenue due to the federal hydro projects built in these three counties. -LEAs shall use this alternative power rate, reflecting the "real" uncompensated electricity rate, for their energy efficiency measure SIR calculations.

Step 7: Complete and Submit an Energy Expenditure Plan(s)

A: Submission of Energy Expenditure Plan(s)

The energy expenditure plan is the application an LEA uses to request Proposition 39 program award funds to implement proposed eligible energy projects. The energy expenditure plan includes all information specified in these *Guidelines*. LEAs must complete and submit an energy expenditure plan to the Energy Commission, and that energy expenditure plan must be approved by the Energy Commission for the LEA to receive Proposition 39 program award funds. The energy expenditure plan application is available on the Commission's website at: http://www.energy.ca.gov/efficiency/proposition39/index.html.

In September 2013, and <u>in October November</u> for following fiscal years, the SSPI will announce each LEAs award for that current fiscal year. <u>LEAs are encouraged to develop energy expenditure plans that account for and request the full Proposition 39 program award allocation.</u> LEAs can find their annual Proposition 39 program allocation on the CDE website at: <a href="http://www.cde.ca.gov/fg/aa/ca/prop39cceja.asphttp://www.cde.ca.gov/fg/fo/r14/prop39cceja.asphttp://www.cde.ca.gov/fg/fo/r1

The Energy Commission offers flexibility to LEAs when submitting and organizing energy expenditure plans. Listed below are the <u>LEAs options: various alternatives</u>:

- **Annual award energy expenditure plan.** An LEA may submit an annual energy expenditure plan with an eligible energy project identified for the current fiscal year award. If the full award is not budgeted for in the energy expenditure plan, the balance of the award will remain available for future energy expenditure plan requests.
- Multiple-year (bundled) award energy expenditure plan. An LEA may submit an energy expenditure plan that includes a bundled multiyear award. Based on the known first-year funding award, an LEA can estimate future yearly awards and submit an energy expenditure plan with an eligible energy project amounting to an estimated multiyear program award, up to the full five-year estimated amount. Because revenue to the Job Creation Fund is appropriated annually by the Legislature, LEAs are not guaranteed to receive the total estimated amount calculated in its multiple-year award approximation.

Multiple-year energy expenditure plans can include energy-related training and/or energy manager funding requests. LEAs can again estimate future yearly awards and submit an energy expenditure plan that includes energy-related training amounting to 2 percent of the estimated multiyear program award and/or energy manager funding amounting to 10 percent of the estimated multiyear program award, up to the after the four full five-year estimated amount.

LEAs receiving approval of a multiple-year energy expenditure plan will receive the Proposition 39 program award funding annually. They will not receive one multiple-year lump sum. Because the future annual Proposition 39 program award is already approved by the Energy Commission through the multiple-year energy expenditure plan submission, the LEA's annual Proposition 39 award allocation will be distributed from SSPI every January, after award calculations are announced in November of the preceding year.

The LEA and the Energy Commission will annually review the multiyear plans to ensure the project is still on track and will adjust the plan, if necessary.

LEAs shall submit their energy expenditure plan(s) and all project back-up documentation through the on-line Proposition 39 energy expenditure plan online system. application portal. The Energy Commission will review energy expenditure plans as they are received. LEAs are encouraged to submit their completed energy expenditure plans as soon as possible to allow timely review and approval by the Energy Commission, so LEAs can meet targeted implementation schedules.

B: Energy Expenditure Plan Content

LEAs must apply to the Energy Commission as specified in the energy expenditure plan and explained in the *Energy Expenditure Plan Handbook*, available on the *Energy Commission*'s Proposition 39 program Web page

at: http://www.energy.ca.gov/efficiency/proposition39/index.html. LEAs are required to submit

all eligible energy project information on the standard energy expenditure plan described below.

The energy expenditure plan application includes the following elements:

- Energy Planning Funds itemization (if requested in first year of program eligibility).
 The budgeted planning funds and the financial breakdown of expenditures spent to date in each budgeted planning fund category.
- Utility Data Release Authorization Form (CEC-12) and Facility and Service Account Information Form (CEC-24) (submitted only once with an LEA's first energy expenditure plan): Consent for the LEA's utility provider(s) to release 12 months of historical energy billing data and ongoing billing data to the Energy Commission. This includes all utility accounts and account addresses for all school sites within an LEA. The Energy Commission posted the CEC-12 and CEC-24 forms utility data release authorization form on the Proposition 39 Web page for LEAs to use. These is forms gives the LEA's utility provider(s) the authorization to release customer information and submit the LEA's energy usage and billing data to the Energy Commission. (STEP 1)
- Benchmarking EUI for all school sites included on the energy expenditure plan.
 (STEP 2)
- Energy efficiency measures: energy expenditure plan application includes:
 - 1. Award amount request, which may include an estimate of future years' award if the application is a multiple-year plan. 2013-14 (or current year) award amount and estimate of 2014-17 amount if the plan includes future years.
 - 2. Current energy usage (must include the 12 month total electric and gas utility energy usage). For example, if the LEA submits its first energy expenditure plan in fiscal year 2013-2014, it will total its utility usage data from fiscal year 2012-2013. This information is available from the LEA's billing records or can be obtained from the LEA's energy provider(s).
 - 3. Energy efficiency measure(s) description. (STEP 5)
 - 4. Estimated energy savings (must include supporting engineering analysis or Energy Commission calculator results). (STEP 5)
 - 5. Estimated project cost (an itemized budget for the project that identifies all related costs and expenses). (STEP 5 or contractor estimate)
 - 6. Individual project backup documentation (from an energy audit or energy survey). (STEP 5)
- Energy training request (optional).
- Energy manager request (optional).
- Job creation benefits estimation (see below and Appendix G for calculation method).
- The energy expenditure plan will also include the following self-certifications:

- 1. The LEA followed the *Proposition 39 Guidelines* regarding Eligible Energy Project Prioritization Considerations. **(STEP 3)**
- 2. The LEA took into account the guidelines regarding Sequencing of Facility Improvements. (STEP 4)
- 3. The LEA commits to use the funds for the eligible energy project(s) approved in its energy expenditure plan.
- 4. The LEA commits that the information included in the application is true and correct to the best of the LEA's knowledge.
- 5. The LEA commits that all California Environmental Quality Act (CEQA) requirements are completed.
- 6. The LEA will obtain DSA project approval as applicable pursuant to California Code Regulations, Title 24.
- 7. The LEA acknowledges that the expenditures are subject to financial audit requirements (Public Resources Code Sections 26206(e) and 26240(g)).
- 8. The LEA commits to complying with all reporting requirements.
- The energy expenditure plan will also include the Building Owner Written Certification:
 - 1. If an LEA leases a privately-owned facility or building that does not have a separate meter, or an LEA leases a privately-owned facility or building and the lease payment includes the utility cost, the Expenditure Plan must include a building owner written certification that commits the building owner to transferring the cost savings of the energy improvements to the LEA tenant, either through a reduced lease payment, or other form of monetary reimbursement.

Job Creation Benefits Estimation

Public Resources Code Section 26235(e) states, "Each participating LEA shall prioritize the eligible projects within its jurisdiction taking into consideration, as applicable, at least the following factors:"

Public Resources Code Section 26235(e)(9) states that LEAs shall prioritize eligible projects taking into consideration, among other factors, "[t]he individual or collective project's ability to facilitate matriculation of local residents into state-certified apprenticeship programs."

Public Resources Code Section 26235(e)(10) states that an additional factor is "[t]he expected number of trainees and direct full-time employees likely to be engaged for each LEA's annual funding commitments based upon a formula to be made available by the Energy Commission or California Workforce Investment Board. The formula shall be stated as labor-intensities per total project dollar expended, and may differentiate by type of improvement, equipment, or building trade involved."

The California Labor and Workforce Development Agency, the California Workforce <u>Development Investment</u>-Board (CW<u>D</u>IB), the Energy Commission, and other state agencies collaborated to provide the information about preparing energy expenditure plans that contain an estimate of job creation and workforce effects of Proposition 39 projects.

Appendix G in the appendices includes a simple step-by-step questionnaire for estimating job creation benefits. The Energy Commission has also incorporated a job creation benefits estimation calculator embedded into the energy expenditure plan.

C: Energy Expenditure Plan Review Process

The Energy Commission is required to review and approve every LEA's energy expenditure plan. The Energy Commission will screen each energy expenditure plan for energy project eligibility criteria and completeness, and then evaluate the proposal for technical and financial accuracy and reasonableness. No other criteria or scoring will be used to evaluate energy expenditure plans. Energy Commission staff will process the energy expenditure plans on a first-come, first-served basis.

Each energy expenditure plan will be reviewed as follows:

- 1) Energy Expenditure Plan Completeness: Energy Commission staff will review the energy expenditure plan for completeness pursuant to Step 7B above. All applications must contain an analysis of eligible energy project cost and supporting calculations of estimated annual energy and cost savings. If energy audits were performed, the analysis in energy audits must clearly state all assumptions used and the basis for those assumptions. If the energy expenditure plan is not complete, Energy Commission staff will contact the LEA to explain the reason for the determination and then request the required additional information in writing. The Energy Commission will return the energy expenditure plan to the LEA if additional information is not received within the time frame specified in the written request. When the energy expenditure plan is deemed complete, it will be recorded as "received," and the Energy Commission will continue the review process.
- 2) Project(s) Eligibility Criteria: A complete energy expenditure plan will be reviewed to determine if it meets the project(s) SIR eligibility criteria.
- 3) Technical and Financial Reasonableness: Any energy expenditure plan meeting the energy project eligibility criteria will be screened for technical and financial reasonableness. The Energy Commission reserves the right to review all supporting engineering analyses to ensure accuracy of cost and energy savings estimates and reasonableness of assumptions used in calculations.

Energy Expenditure Plan Approval and Payment Process

After an energy expenditure plan passes all three review phases and is approved, the Energy Commission will notify the LEA and the CDE and will post a notice of the approval on the Energy Commission's Proposition 39 program Web page. About once every quarter the CDE will process an apportionment for the total approved Proposition 39 funds since the last payment period. This process will take about a month. Upon completion, the apportionment package will be submitted to the State Controller's Office, which will draw warrants for county treasurers in roughly three to four weeks. County treasurers are then requested to deposit immediately the amount received to the appropriate funds of the county superintendents of schools for further distribution to school districts and charter schools.

Both the CDE and the Energy Commission will provide fiscal information on their respective websites, including total awards, payments made, and remaining balances for all LEAs.

Energy Expenditure Plan Disapproval Process

Energy expenditure plan applications *may* be disapproved for funding and require resubmission if:

- The application does not contain all the requested information.
- The application is deemed incomplete, and the requested additional information is not received within the time frame specified in the Energy Commission's written notification of incompleteness.
- The energy project is deemed ineligible.
- The eligible energy project does not meet the SIR of 1.05.

If the Energy Commission disapproves an energy expenditure plan, the Energy Commission will electronically return the energy expenditure plan to the LEA, along with the reason(s) for disapproving the plan and an explanation of how the problems may be remedied, for correction and resubmission.

Petition of Reconsideration of Energy Expenditure Plan Denial; Appeal of Executive Director's Decision

An LEA may petition the office of the Executive Director for reconsideration if an energy expenditure plan is denied. The petition for reconsideration shall be submitted electronically to the Energy Commission docket for this proceeding (Docket # 13-CCEJA-01) with any supporting documentation within 30 days of the date the notice of denial is e-mailed to the LEA. The petition shall specify why the LEA believes the denial of the energy expenditure plan is improper given the eligibility criteria in the *Proposition 39 Guidelines*, explain any supporting documentation filed with the petition, and identify the remedy sought. Within 30 days of receiving a complete petition, the Office of the Executive Director shall issue a decision on the petition and provide it to the LEA electronically.

If an LEA disagrees with the decision of the Energy Commission's Office of the Executive Director, the LEA may appeal the decision to the Energy Commission. The appeal must be filed within 15 days of the date the decision of the Office of the Executive Director is e-mailed to the

LEA and shall consist of a letter of appeal stating why the decision is unacceptable, a copy of the petition for reconsideration and any supporting documentation, and the decision of the Office of the Executive Director. The appeal shall be sent to the Commission's Public Adviser at: publicadviser@energy.ca.gov.

Within 45 days of receiving the letter of appeal, the Public Adviser shall arrange for the appeal to be presented to the Energy Commission at a regularly scheduled business meeting. The Public Adviser shall inform the appealing party in writing of the business meeting date and the procedures for participating in the business meeting. The appealing party shall be responsible for presenting the appeal to the Energy Commission during the business meeting. Unless otherwise determined during the business meeting, the Commission shall determine the appeal during the business meeting. Energy Commission staff may present a response to the appeal when the matter is under consideration by the Energy Commission.

Step 8: Energy Project Tracking and Reporting

Public Resources Code Section 26240(b) requires that "[a]s a condition of receiving funds from the Job Creation Fund, not sooner than one year but no later than 15 months after an entity completes its first eligible project with grant, loan, or other assistance from the Job Creation Fund, the entity shall submit a report of its project expenditures to the Citizens Oversight Board created pursuant to Chapter 3 (commencing with Section 26210)."

Public Resources Code Section 26240(c) requires that "[i]f an LEA completes more than one project, the required information for a second and any subsequent project shall be submitted no later than the first full quarter following project completion."

LEAs must report between _provide an annual progress report each fiscal year. The annual progress report will be made available to the LEAs for reporting each July and must be submitted to the Energy Commission by October 1. A final project completion report will be made available to the LEA for reporting 12 months after project completion. The final project completion report must be completed and submitted to the Commission no later than 15 months after the completion of all eligible energy measures projects inon an an approved energy expenditure plan. The LEA Energy Commission will complete the annual progress reports and the final project completion reports using the Proposition 39 energy expenditure plan online system. add an online program reporting system to the Proposition 39 Web page. This system will allows LEAs to submit the required eligible energy project information in a standard format to be collected by the Energy Commission for the Citizens Oversight Board. LEAs must complete all annual progress reports and the final project completion report.

The Energy Commission, in partnership with the California Labor and Workforce Development Agency, intends to create an online reporting mechanism for LEAs and contractors to submit required jobs and workforce data for all workers employed on eligible projects.

Annual Progress Reports

LEAs <u>must</u> are required to submit an annual progress status report for each approved energy expenditure plan to the Energy Commission an annual progress report for each approved energy expenditure plan until all eligible energy <u>measures projects</u> within an <u>approved energy</u> expenditure plan are completed. LEAs must <u>complete use the on-line</u> annual progress <u>reports using status reporting</u> portal <u>the Proposition 39 energy expenditure plan online system. which will be available on the Energy Commission's Proposition 39 webpage at: http://www.energy.ca.gov/efficiency/proposition39/index.html.</u>

The annual progress report will be made available each July for LEAs to report on activity(ies) that occurred in the previous fiscal year. The annual progress report must be completed and submitted annually by October 1. For example, in July 2016, the annual progress report will be available for LEAs to report activity(ies) performed in fiscal year 2015-16.

Additional information on Annual Reports is included in the *Energy Expenditure Plan Handbook*.

Final Project Completion Reports

Public Resources Code Section 26240(b)(1-7) requires that "[t]o the extent practical, this report shall contain information on all of the following:

- (1) The total final gross project cost before deducting any incentives or other grants and the percentage of total project cost derived from the Job Creation Fund.
- (2) The estimated amount of energy saved, accompanied by specified energy consumption and utility bill cost data for the school or site where the project is located.
- (3) The nameplate rating of new clean energy generation installed.
- (4) The number of trainees.
- (5) The number of direct full-time equivalent employees and the average number of months or years of utilization for each of these employees.
- (6) The amount of time between awarding of the financial assistance (that is, receiving the approved energy expenditure plan award deposit) and the completion of the project or training activities.
- (7) The facility's energy intensity before and after project completion, as determined from an energy rating or benchmark system."

LEAs must provide a final project completion report for an approved energy expenditure plan after project completion, and must include to the extent practical the above elements to the extent practical. in the final report for each completed energy expenditure plan. The project is considered complete after all energy efficiency measures within an approved energy

expenditure plan are completed. LEAs are required must complete this report using the reporting module within the Proposition 39 energy expenditure plan online system. to submit all completed eligible energy project information on a standard final report using the on-line reporting portal, which will be available on the Energy Commission's Proposition 39 webpage at: http://www.energy.ca.gov/efficiency/proposition39/index.html.

The final project completion report will be made available to the LEAs on the Proposition 39 energy expenditure plan online system 12 months after the project completion date as indicated in the LEAs annual progress report. LEAs must complete and submit the final project completion report to the Energy Commission no later than 15 months after project completion. If an LEA has multiple approved energy expenditure plans, each approved energy expenditure plan will require a separate final project completion report.

In addition to the required final report information, LEAs must also follow the guidelines below for reporting eligible energy project energy savings and job creation benefits.

Additional information on Final Reporting will also be included in the *Energy Expenditure Plan Handbook*.

Energy Savings Reporting Requirements

Public Resources Code Section 26235(a)(1) states the Energy Commission shall establish guidelines for "[s]tandard methods for estimating energy benefit including reasonable assumptions for current and future costs of energy and guidelines to compute the cost of energy saving as a result of -implementing eligible projects funded by this chapter."

LEAs are required to report the <u>post installation</u> actual energy savings 12 to 15 months after <u>project</u> the completion. of the eligible energy projects. This information will be reported only once for an energy expenditure plan <u>using the Proposition 39 energy expenditure plan online system.</u> Therefore, 12-15 months after the completion of the last eligible energy measure within an energy expenditure plan, an LEA is required to report on the energy savings.

The actual annual energy savings is based on the difference between annual energy use before an eligible energy project(s) is installed and the annual energy use after the eligible energy project installation. The energy reporting is required at two levels: 1) school site level energy intensity; and 2) individual eligible energy measure project level energy savings. School site energy savings is defined as the total energy savings for a school site. Eligible energy measure level energy savings is defined as the energy savings realized by a specific eligible energy measure. Details for both levels are below.

1. Energy <u>Use</u> Intensity at the School Site Level (all energy projects at all school sites):

All LEAs <u>with an approved energy expenditure plan will have previously provided energy use intensity data as part of their application</u>. will have the utility energy usage and cost data reported from the 12-month period prior to the submission of the energy expenditure plan. (Step 1: Electric and Gas Usage/Billing Data requirement). Next,

Between 12 and 15 months after project completion, the LEA must summarize utility energy usage and cost data for the previous 12 months after project completion. LEAs must enter the calculate pre- and post-retrofit energy usage into the appropriate section of the final report on the Proposition 39 energy expenditure online system. EUI as described in Step 2: Benchmarking or Energy Rating System, or use other benchmarking tools including ENERGY STAR'S® "Portfolio Manager" and data analytics tools to provide this EUI information.

2. Energy Savings at the Energy Measure Level:

Post installation energy savings is reported on a measure level are based on the difference between annual energy use before an eligible energy measure(s) is installed and the annual energy use after the eligible energy measure installation.

Energy savings for an individual energy measure shall be reported by choosing any one of the four methods (A-D) described below. For example, simple eligible energy measures should require minimal time and effort to determine the energy savings by choosing either option A or B below. An LEA can report the energy savings for an energy measure, choosing any one of the following methods:

- A. Utility Incentive Completion Report. For energy efficiency measures that receive utility incentives, the final estimated energy savings report requirements of the utilities can be used to determine the <u>post</u> <u>installation</u> actual energy savings.
- B. Energy Commission Energy Savings Calculators Report. An LEA may choose to use the Energy Commission energy savings calculators to estimate the post installation actual energy savings for each eligible energy measure. These are the same calculators offered in the energy expenditure plan phase that provided energy savings estimates for less-complex eligible energy measures. The LEA is required to base the reported energy measure savings on the most recent version of the Energy Commission energy savings calculators at the time the final report is submitted.
- C. LEA's own <u>post installation</u> final energy savings report. An LEA can calculate its own energy savings for an eligible energy measure using data from an energy management system, short-term monitoring (or data logging), and engineering calculations for each eligible energy measure. This <u>post installation final</u> energy savings report can be submitted as the energy savings report.
- D. Third-party <u>post installation</u> <u>final</u> energy savings report. In some cases, an LEA may choose to hire an independent consultant to conduct the detailed <u>post installation</u> <u>final</u> energy savings report for each energy measure or for continuous monitoring. A third party-prepared <u>post installation</u> <u>final</u> energy savings report or commissioning report can also be used for this purpose.

Job Creation Benefits

Public Resources Code Section 26240(e) states, "The California Workforce Investment Board, in consultation with the Energy Commission, shall utilize the reports filed with the Citizens Oversight Board to quantify total employment affiliated with funded projects, as well as to estimate new trainee, apprentice, or full-time jobs resulting from Job Creation Fund activity. The California Workforce Investment Board shall prepare a report with this information annually and submit it to the Citizens Oversight Board."

The CWDHB, in consultation with the Energy Commission, will use reports submitted by or on behalf of LEAs, including data obtained by the Department of Industrial Relations through certified payroll reports furnished by contractors on funded projects and verifiable self-reported employee wage records for workers directly employed by LEAs to quantify total employment affiliated with those projects. These reports will include new trainee, apprentice, and full-time-jobs resulting from funded projects. The CWDHB will prepare a report annually with this information and submit it to the Citizens Oversight Board (COB).

The Labor and Workforce Development Agency and the Department of Industrial Relations will work with LEAs to support reporting by contractors and subcontractors working on funded projects. This may include technical assistance and other mechanisms to support the online reporting system being developed. The CWIB and the Energy Commission will provide guidance to LEAs on the tracking and reporting of jobs for workers directly employed by LEAs.

Audit

Public Resources Code Section 26206(e) states, "All projects shall be subject to audit."

Public Resources Code, Section 26240(h)(1) states, "The Superintendent of Public Instruction shall require local education agencies to pay back funds if they are not used in accordance with state statute or regulations, if a project is torn down or remodeled, or if the property is deemed to be surplus and sold prior to the payback of the project."

LEAs can only use Proposition 39 funding for the eligible energy projects approved in their energy expenditure plans.

LEAs must not sell or demolish the approved energy measure installed with Proposition 39 program award funding prior to the payback of the energy measure. The payback is calculated as dividing the total energy measure cost by the total annual energy savings:

Payback = Total Energy Measure Cost (\$) / Annual Energy Savings (\$/year)

The property is considered the facility or building where the energy measure is installed.

The CDE will use its standard process to collect LEA noncompliant Proposition 39 expenditures. A copy of the audit guide and the related audit procedures that auditors will follow when conducting the annual audit can be found at:

http://eaap.ca.gov/audit-guide/current-audit-guide-booklet/.

Energy Expenditure Plan Implementation Changes

Eligible energy project changes are sometimes unavoidable. If an LEA changes an eligible energy project after the Energy Commission has approved its energy expenditure plan and the SSPI has distributed funding, a revised energy expenditure plan may be required. Any significant change in the approved energy expenditure plan will require "amendment" approval. Significant changes include:

- Adding energy efficiency measure(s) and/or clean energy generation not included in the approved energy expenditure plan.
- Deleting energy efficiency measure(s) and/or clean energy generation in the approved energy expenditure plan.
- Eligible energy project cost increase or decrease by more than 15 percent.
- A change of more than 15 percent in the approved equipment quantity installed. For example, installing a larger or smaller number of lighting fixtures to adjust to conditions found during retrofits would require a "change of scope approval" if the number of fixtures is increased or decreased by more than 15 percent.

Relocating an approved energy efficiency measure(s) and/or clean energy generation from one school site to another school site is not an allowable amendment. In this situation, the LEA is required to submit a new energy expenditure plan. Additional information on Amendments to approved Energy Expenditure Plans is included in the *Energy Expenditure Plan Handbook*.

Energy Project Construction Compliance Requirements

Energy Efficiency Project Construction Compliance Requirements — the Division of the State Architect (DSA)

DSA provides design and construction oversight for school districts and community colleges. To ensure buildings are safe and compliant with accessibility standards, the DSA must review and approve public school construction for compliance with the *California Code of Regulations*, Title 24, the California Building Code (CBC), when alterations or additions are made to existing buildings.

Certain eligible energy measures funded by Proposition 39 might be exempt or excluded from DSA review and approval for structural safety, depending on the scope of work and estimated construction cost. In addition, some eligible energy measures may not be required to include accessibility upgrades outside the scope of work area. To help LEAs determine the various requirements for eligible energy measures and possible exemptions, the DSA provides resources and guidelines on its website

at: http://www.dgs.ca.gov/dsa/Programs/progSustainability/prop39.aspx.

In cases where DSA review is required, DSA will verify that the original building construction was certified before it can issue approval of plans for alterations on that building. DSA regional office staff can help LEAs identify whether a particular building is suitably certified and what steps are required to achieve certification.

LEAs are advised to consider DSA requirements early in their planning for Proposition 39eligible energy projects and contact the appropriate DSA Regional Office with jurisdiction over the area in which the project is located.

Visit the DSA Project Submittal Planning page for more information regarding plan submission at: http://www.dgs.ca.gov/dsa/Programs/progProject/projsubmitplanning.aspx

Contracts

Public Resources Code Section 26206(d) states, "All projects shall require contracts that identify the project specifications, cost, and projected energy savings."

All contracts need a clear and accurate description of the eligible energy project, including material, products, or services to be procured, and a budget that includes cost and an estimate of the projected energy savings.

Public Resources Code Section 26235(a)(2) states that the *Proposition 39 Guidelines* shall address "[c]ontractor qualifications, licensing, and certifications appropriate for the work to be performed, provided that the Energy Commission shall not create any new qualification, license, or certification pursuant to this subparagraph."

Public Resources Code Section 26235(c) states, "A community college district or LEA shall not use a sole source process to award funds pursuant to this chapter. A community college district or LEAs may use the best value criteria as defined in paragraph (1) of subdivision (c) of Section 20133 of the Public Contract Code to award funds pursuant to this chapter."

(Senate Bill 785 (Chapter 931, Statutes of 2014), adopted by the Legislature and signed into law by Governor Edmund G. Brown, Jr. on September 30, 2014, repealed Section 20133 of Chapter 1, Part 3, Division 2 of the Public Contract Code and further amended the statute.)

The guidelines defer to the LEA's own procurement regulations and procedures, as long as they reflect applicable state and local laws and regulations and are not in conflict with the minimum legal standards specified above.

Public Works Project Award Notification and Payroll Reporting

Existing law (Labor Code Section 1773.3) requires an LEA to notify the Department of Industrial Relations of any public works project within five days after the public works contract is awarded. Notification must be provided online using the PWC-100 form found

at https://www.dir.ca.gov/pwc100ext/. The PWC-100 includes a question about whether the project has or will receive funding from Proposition 39, and the LEA should be sure to answer "Yes" to this question.

Contractors and subcontractors on funded projects will be required to furnish certified payroll records directly to the Department of Industrial Relations in accordance with Labor Code Sections 1771.4(a) and 1776. The LEA's bid and contract documents must include notice of this requirement. In addition, contractors and subcontractors must be registered with the

Department of Industrial Relations in order to bid or work on any public works project.4 The Department maintains a list of registered contractors and subcontractors on its website at https://efiling.dir.ca.gov/PWCR/Search.

No Retroactive Funding of Projects

Proposition 39 funding may be used only to pay for eligible energy projects installed on or after December 19, 2013, the date guidelines were approved at the Energy Commission's business meeting. An eligible energy project award for Proposition 39 funding, as distinguished from energy planning funds, can be used to pay only for eligible energy projects approved in an energy expenditure plan by the Energy Commission. If eligible energy projects are implemented prior to the *Proposition 39 Guidelines* approval date, those eligible energy projects are *not* eligible for retroactive Proposition 39 funding.

⁴ This requirement becomes mandatory for bids submitted on or after March 1, 2015, and for contract awards and work performed on or after April 1, 2015.

CHAPTER 3: Additional Proposition 39 State Resources

Energy Conservation Assistance Act – Education Subaccount: Loan and Technical Assistance Program

SB 73 transferred \$28 million in July 2013 from the Job Creation Fund to the Energy Conservation Assistance Act, Education Subaccount (ECAA-Ed). The 2014-15 California Budget allocated an additional \$28 million from the Job Creation Fund to ECAA-Ed. Of that amount, about 90 percent is used to provide low-interest or no-interest loans to LEAs and community college districts through the ECAA Loan Program. About 10 percent is used by the Bright Schools Program to provide technical assistance grants of service to qualifying LEAs and community college districts needing support with eligible energy measure identification and planning. The 2015-16 California Budget Act made no appropriation to the Energy Commission for the Energy Conservation Assistance Act.

ECAA-Ed (Proposition 39) Loan Program

The Energy Commission implements the ECAA-Ed Program pursuant to Public Resources Code Section 25410, et seq., and the Title 20 of the California Code of Regulations, Sections 1650 through 1655. The ECAA-Ed funds are available to fund no-interest rate loans for eligible energy projects. These projects are required to generate energy cost savings sufficient enough to allow the loan principal and all accrued interest to be repaid to the Commission within a maximum of 20 years. The simple payback is 20 years if the interest rate is set at zero percent. The Commission Program Opportunity Notice (PON) for ECAA-Ed loans specifies the interest rate, repayment period (includes principal and interest), the maximum simple payback period, and requirements on building ownership. The PON for ECAA-Ed loans can be viewed on the Energy Commission's website at: http://www.energy.ca.gov/efficiency/financing/index.html.

ECAA-Ed funding cannot pay for PPA financed clean energy projects installations.

Bright Schools Technical Assistance Grant Program

LEAs and community college districts may apply to the Bright Schools Program for technical assistance in planning how to best use Proposition 39 program award funds for eligible energy measures. Assistance is provided by the Energy Commission on a first-come, first-served basis. Commission staff and contracted consultants provide the energy technical assistance, including energy audits and eligible energy measure recommendations. The grant is not provided in cash, but rather in the form of engineering and design assistance provided at no charge by the Commission. This program is implemented pursuant to Public Resources Code Section 25416(d).

Eligible Entities

LEAs and California Community College Districts (CCCDs) are eligible for ECAA-Ed loans and grants for technical assistance.

ECAA-Ed: Eligible Energy Projects

To qualify for an ECAA-Ed loan, the following requirements must be satisfied:

- 1. Projects must meet the eligibility requirements for an ECAA-Ed loan as specified in Public Resources Code Section 25410, et seq., and the Energy Commission's regulations in Title 20 of the California Code of Regulations, Sections 1650-1655.
- 2. Loan applicants must satisfy all requirements as specified in the Energy Commission Program Opportunity Notice.
- 3. Projects must be technically and economically feasible.
- 4. Proposition 39 program-funded loans, including principal and interest, must be repaid by the estimated annual energy cost savings achieved of the projects, with a maximum payback period of 20 years.
- 5. The term of the loan may not exceed the useful life of the loan-funded equipment or the lease term of the building in which the loan-funded equipment will be installed.
- 6. If the LEA is located in a privately owned, leased facility, the LEA must adhere to the requirements for Eligibility of LEAs in Leased Facilities in Chapter 2.

Examples of eligible energy measures include, but are not limited to:

- · Lighting systems
- · Heating and air-conditioning modifications (HVAC)
- · Pumps and motors
- Building insulation
- · Clean energy generation (PPAs not eligible)

Application Process

ECAA-Ed Loans

LEAs and CCCDs may apply for funding as specified in the Energy Commission's Program Opportunity Notice (PON). Complete applications are evaluated and recommended for funding as specified in the PON. To request ECAA-Ed loan funding, use the application forms at: http://www.energy.ca.gov/efficiency/financing/index.html.

Technical Assistance Grants

LEAs and CCCDs may apply to receive technical assistance from the Energy Commission through the Bright Schools Program. To request technical assistance, use the application forms at: http://www.energy.ca.gov/efficiency/brightschools/index.html.

California Workforce <u>Development</u> Investment Board Grant Program

The <u>California Workforce Development Board (CWD</u>+B) formerly known as the <u>California Workforce Investment Board (CWIB)</u> will implement energy efficiency-focused "earn-and-learn" job training and placement programs targeting disadvantaged job seekers. The goal of this program will be to train Californians for entry-level employment and create career pathways that are driven by public and private investment in energy efficiency and green building standards. Funded eligible energy projects will create opportunities for disadvantaged youth and veterans to improve their qualifications for energy-related occupations and qualify for state-certified apprenticeship programs, community college career programs, and direct job placement.

Key program elements include:

- Pre-apprenticeship training aligned with local building trades councils and based on nationally certified Multi-Craft Core Curriculum.
- Training and placement requirements developed in alignment with energy efficiency work opportunities.
- Regional partnerships and resource and program alignment among local workforce investment boards, employers, organized labor, K-12, community colleges, California Conservation Corps, and community-based stakeholders.
- Rigorous performance and evaluation methods to ensure program efficacy and continuous improvement; development of sustainability model to increase scale and/or replication of successful programs.

For additional information on the CWDB's Proposition 39 program, please go to: http://cwdb.ca.govhttp://www.cwib.ca.gov/.

California Conservation Corps

With funding totaling \$10 million received from the California Budget Act of 2013-14 and 2014-15, and \$5.4 million appropriated in the 2015-16 California Budget, the CCC will provide energy services to public schools for the fiscal years 2013-14 through 2017-18.

The CCC is a state agency putting young men and women, ages 18-25, to work on natural resource projects. Since its earliest days, these projects have included energy conservation

work, from low-income home weatherization to solar panel construction to, most recently, energy surveys and retrofitting convenience stores through the EnergySmart Jobs program.

The CCC may assist LEAs in:

1) Conducting Energy Opportunity Surveys (energy audits) to assess building conditions, identify energy efficiency opportunities, and establish baseline use. Working under the

supervision of professional CCC staff, crews of trained young adults, will conduct onsite school surveys that collect "whole building" energy use data in conformance with the Energy Commission's *Proposition 39 Guidelines*. CCC partners analyze the data collected by CCC crews and generate an Energy Opportunity Survey Report for each LEA surveyed to assist in the development of their Proposition 39 energy expenditure plans. Surveys will be provided to qualifying K-12 schools at no or low cost.

2) *Installation and Implementation of basic energy efficiency retrofit measures.*As part of the LEA's approved energy project implementation plan, the CCC can also offer energy efficiency retrofit installation labor to qualifying LEAs at no or low cost.

The Proposition 39 investment in schools is also an investment in the CCC corps members as they prepare to enter the state's workforce. Through their work, the corps-members will gain hands-on training, certificated technical education, and work experience designed to increase employment opportunities in green technology fields.

The CCC may extend this learning opportunity to schools by making presentations about energy conservation and/or connecting with service learning, science classes, environmental clubs or career academy programs.

To learn more about the CCC's Proposition 39 program, call the CCC Energy Corps phone number: (530) 645-9974; or e-mail: energycorps@ccc.ca.gov.

For additional information on the CCC's Proposition 39 program, please go to: http://www.ccc.ca.gov/work/programs/prop39/Pages/default.aspx.

APPENDIX A

Proposition 39 Implementation Program 2013-14 Funding Allocation For Energy Projects

For fiscal year 2013-14, California's Legislature, through Senate Bill (SB) 73 (Committee on Budget and Fiscal Review, Chapter 29, Statutes of 2013), appropriated Proposition 39 revenue as follows:

- \$381 million in awards to local educational agencies (LEAs), which include county
 offices of education, school districts, charter schools, and state special schools for
 energy efficiency and clean energy projects.
- \$47 million in awards to California Community College Districts for energy efficiency and clean energy projects.
- \$28 million for low-interest and no-interest revolving loans and technical assistance to the California Energy Commission.
- \$3 million to the California Workforce Development Board (CWDB) to develop and implement a competitive grant program for eligible workforce training organizations to prepare disadvantaged youth, veterans, and others for employment in clean energy fields.

In addition to the above SB 73 appropriations, Governor Edmund G. Brown Jr.'s 2013-14 Budget Act, appropriated Proposition 39 revenue as follows:

• \$5 million to the California Conservation Corps to perform energy surveys and other energy conservation-related activities.

For fiscal year 2014-15, California's Legislature through Senate Bill (SB) 852 appropriated Proposition 39 revenue as follows:

- \$279 million awards to local educational agencies (LEAs), which include county offices of education, school districts, charter schools, and state special schools for energy efficiency and clean energy projects.
- \$39 million in awards to California Community College Districts for energy efficiency and clean energy projects.
- \$28 million for low-interest and no-interest revolving loans and technical assistance to the California Energy Commission.
- \$3 million to the California Workforce Development Board (CWDB) to develop and implement a competitive grant program for eligible workforce training organizations to prepare disadvantaged youth, veterans, and others for employment in clean energy fields.

• \$5 million to the California Conservation Corps to perform energy surveys and other energy conservation-related activities.

Page A- $\underline{4}2$ provides a representation of fiscal year 2014-15 Proposition 39 implementation funding allocation

Table A-1: Program 20154-165-Funding Allocation for Energy Projects (Fiscal Year 2015-2016)

| Majority of Funding for Awards to Local Educational Agencies (LEAs) (\$352.1348 million) | (\$ <u>313.4279</u> million) | 85% of funds based on prior year average daily attendance (ADA) (~\$266237 million) 15% of funds based on prior year eligibility for free and reduced-priced meals (FRPM) (~\$4742 million) | \$15,000 for LEAs with 100 or fewer ADA, plus FRPM Award based on ADA or \$50,000, whichever is greater, for LEAs with more than 100 and 1,000 or less ADA, plus FRPM Award based on ADA or \$100,000, whichever is greater, for LEAs between 1,000 and 2,000 ADA, plus FRPM Award based on ADA for LEAs of 2,000 or more ADA, plus FRPM | Supports deeper energy retrofit projects that will help ensure greater long-term energy savings and additional job creation. Allows small districts (with ADA of 1,000 or fewer) to bundle two years of funding for larger energy projects, if requested in writing to CDE by August 1 Requires districts with funding over \$1 million to use 50% of their award on large projects (defined as \$250,000+) | |
|--|---|--|---|---|--|
| | (\$ <u>38.7</u> 39 million) | | s districts (CCD) represent 112 colleges, and at the discretion of the Chancellor | | |
| \$ <u>0</u> 28 million | California Energy Co Conservation Assist Education Subaccou Technical Assistance | ance Act – unt: Loan and | K-14 financing and technical assistance Financing assistance includes low- or zero-interest loans | | |
| \$3 million | California Workforce Development Invest | | Competitive grants for community-based organizations and other workforce training organizations preparing veterans or disadvantaged youth for employment | | |
| \$5.4 million | California Conserva | tion Corps | Funding to perform energy surveys and other energy conservation-related activities | | |

Sources: California State Budget – 20153-164, Senator Kevin de León and the California Energy Commission

Proposition 39 Appropriation Summary

| | Fiscal Year 2013/14 (in millions) | Fiscal Year 2014/15 (in millions) | Fiscal Year 2015/16 (in millions) |
|--|--------------------------------------|--------------------------------------|--------------------------------------|
| Local Educational Agency Program | \$381 | \$279 | <u>\$313.4</u> |
| Community College District Program | \$47 | \$39 | <u>\$38.7</u> |
| California Energy Commission Energy Conservation Assistance Act – Education Subaccount | \$28 | \$28 | <u>\$0</u> |
| California Workforce Development Board | \$3 | \$3 | <u>\$3</u> |
| California Conservation Corps | \$5 | \$5 | <u>\$5.4</u> |
| TOTALS | \$464 | \$354 | <u>\$360.5</u> |

APPENDIX B

Proposition 39 Funding Pathway Example

Energy Planning Funding Option

If requested, Energy Planning funding can be used to pay for Proposition 39 program *Guideline* Steps listed below:

- Step 1: Electric and Gas Usage/Billing Data
 - √ 12 months site energy usage before project installation
- Step 2: Benchmarking of facilities
- **Step 3:** Energy Project Prioritization Considerations (Statue required considerations)

SIMPLEST
PATHWAY TO
PROPOSITION
39 ENERGY
FUNDING:

- Step 4: Sequencing of Facility Improvements (Energy Commission recommendations)
- Step 5 & Step 6: Energy Survey Project Identification
 - ✓ Energy Saving Calculator Tool
- **Step 7:** Complete and Submit an Energy Expenditure Plan
 - ✓ Energy Expenditure Plan reviewed and approved
 - ✓ Award of Proposition 39 Funding
- LEA Independent Responsibilities
 - ✓ DSA Compliance
 - ✓ CEQA Compliance
 - ✓ Contracting
 - ✓ Project Management
- Step 8: Project Tracking and Reporting
 - √ 12 months site energy usage after project installation
 - ✓ Use Energy Commission Calculator

All LEAs must follow the basic pathway; however, LEAs with large funding awards may choose other options within each of the steps.

For example, within Step 5 Eligible Energy Measure Identification, an LEA may need to complete an energy audit for energy measure identification and analysis. See "Process to Receive K-12 Eligible Energy Project Award Funding" section in Chapter 2 for all pathway options.

APPENDIX C Benchmarking Process

Energy Benchmarking Steps

1. Gather Energy Data and Summarize Energy Data

Gather and summarize energy usage data for all energy sources, including electricity, natural gas, and fuel oil. To accomplish this, an LEA gathers the last previous 12 months of utility bills, including electricity, natural gas, and fuels, to calculate the EUI. If a school has two or more meters for electricity, natural gas, or other fuels, the utility data shall be combined for one EUI calculation. Benchmarking a facility must be performed on a school-by-school basis. **Table C-1** shows the data required to calculate EUI. If LEA staff members have difficulty gathering this information, they may contact their local utility or energy provider.

Table C-1: Example of School Energy Use Data Annual Summary

| FACILITY | XYZ School | ol | | | | | | | |
|--------------|------------|-----------------------------------|------------------------------|--------------------------|------------------------------|-----------------------------|--------------------------------|-------------------------|--------------------|
| UTILITY: | PG&E | | | | | | | | |
| School SQFT: | 11,000 | | | | | | | | |
| | | | Electricity | | (| Gas | Other | Fuels | Total Energy |
| | | Account N | 0. | Rate | Account | Rate | (propan | e/diesel) | Cost |
| | Year | Average Peak Demand (kW) | Total Energy Use (kWh) | Electric Charges (\$) | Total Gas Use (Therms) | Natural Gas Charges (\$) | Total Fuel Use (Gallons) | Fuel Charges (\$) | Total Charges (\$) |
| Total | 2012 | 63.3 | 85,815 | \$ 16,465 | 6,928 | \$ 6,030 | C | \$ | \$ 22,495 |

Source: California Energy Commission

2. Establish Energy Use Intensity

Establish an EUI for your school. After collecting Use the last 12 months of energy cost data and knowing the square footage of your school to calculate the EUI. the next step is calculateing the EUI This is accomplished by dividing the annual energy use by the gross square footage of the school for each end-use energy category. For example, in Table C-1, XYZ School divides the total 85,815 kWh use by the total square footage of 11,000 to obtain the electricity use intensity of 7.8 kWh/sq.ft./year. Perform the same calculations for natural gas, other fuels, and total cost.

⁵ Square footage inside the perimeter of exterior walls (less courtyards).

Table C-2 below-shows the EUIs for XYZ School. The two numbers (highlighted in yellow) the Total Energy Cost/sq.ft./year and Kbtu/sq.ft./year are the two numbers required in the energy expenditure plan.

Table C-2: Benchmarking Report for XYZ School

| Annual Electricity (kWh) | | Annual Natura (Therms) | | Annual Othe | r Fuel | Energy Costs/sq.ft/ year | ⁶ Kbtu/ sq.ft/year |
|--------------------------|--------|---------------------------|--------|-----------------|--------|--------------------------------|----------------------------------|
| KWh/sq. ft. | 7.8 | Therms/sq. ft. | 0.44 | Gallons/sq. ft. | 0 | | |
| Cost/sq. ft. | \$1.16 | Cost/sq. ft. | \$0.39 | Cost/sq. ft. | \$0.00 | <mark>\$1.55</mark> | <mark>127.8</mark> |

Source: California Energy Commission

3. Create Benchmarking Report and Rank Schools

Based on the EUI, a benchmarking report is created. This is a simple report that lists the EUI for each school site. <u>Simply S</u>ort the school sites based on the energy use intensity and rank in order.

4. Identify the Lowest Energy Performers

Identify the lowest energy performing schools. These will be the schools with the highest energy cost per square foot and highest Kbtu per square foot. The report ranking will present the schools that consume the most energy when compared to others in the district.

 $^{6 \}text{ Kbtu/sq ft/year} = (kWh \text{ use } x 10,716* + Therm \text{ use } x 100,000 + \text{propane gallon } x 92,500 + \text{fuel oil gallons } x 138,500) / 1000 / total gross square footage of school.$

^{*}Electricity conversion factor to source energy is 10,716 Btu/kWh.

APPENDIX D

Savings-to-Investment Ratio (SIR) Calculation

The SIR is calculated based on present value of savings divided by project installation cost subtracting project rebates and other grant fund sources using Equation 1 below. The total Proposition 39 award amount is the Project Installation Cost minus rebates and other non-repayable funds.

The SIR value is automatically calculated using the Energy Commission's SIR calculator.

Equation 1: Savings-to-Investment Ratio (SIR)

SIR = NPV/(Project Installation Cost – Rebates – Other non-repayable funds – Non-energy Benefits)

Definitions:

- NPV: Net present value of project cost savings.
- Project Installation Cost: The total of all project site preparation, equipment and labor costs. (Design cost and other soft costs can be excluded from the total project costs. However, if an LEA uses Proposition 39 funds to pay for soft costs, these costs must be included in the total project cost used to calculate the SIR).
- Rebates: Utility rebates or other incentives that reduce the project costs.
- Other-non-repayable funds: Funding such as bond funding, deferred maintenance, general operation budgets and other funds, (not including Proposition 39 awards) used to finance the project. This is funding that does not need to be repaid.
- Non-Energy Benefits: Other associated project benefits such as enhanced comfort, better indoor air quality, and improved learning environment.

How Is the Present Value of Savings Calculated in the SIR?

When calculating the net present value of a project, the escalation rate in energy cost, rate of inflation, and discount rate over time are considered. Moreover, the annual maintenance cost savings of the project is not expected to exceed 2 percent of the project installation cost. Finally, the net present value is calculated using the effective useful life of the equipment based on the Effective Useful Life for Energy Measures in Years Table in the Appendix E. The net present value is automatically calculated using the Energy Commission's SIR calculator.

Equation 2: Net Present Value

Net Present Value = Energy Cost Savings + Maintenance Savings

Definitions:

- Energy Cost Savings: Total energy cost savings realized over the life of the equipment, including kWh energy, kW demand, natural gas, and other liquid fuel savings.
- Maintenance Savings: Annual maintenance cost/savings (maximum 2 percent of project cost).

Assumptions⁷:

- Energy cost escalation rate = 4 percent
- Discount rate = 5 percent
- Inflation Rate = 2 percent

How Are the Non-Energy Benefits Calculated in the SIR?

The non-energy benefits are expected to provide savings, avoided costs, and other monetary benefits. For example, the health benefits of improved indoor air quality, which may improve student and teacher health and result in reduced absenteeism. These costs are quantified as a percentage of the project installation cost. The Energy Commission SIR calculator automatically accounts for non-energy benefits.

Equation 3: Non-Energy Benefits

Non-Energy Benefits = 5% x Project Installation Cost

Definitions:

- A 5 percent adder is used to estimate non-energy benefits associated with all energy efficiency projects.
- Project Installation Cost: Includes project site preparation, equipment, and labor costs.

The non-energy benefits considered by the Energy Commission are:

- Improved lighting quality
- Improved acoustics
- Improved indoor air quality
- Improved occupant comfort

• Improved health and safety (including accessibility upgrades)

How Are the Energy Savings Calculated in the SIR?

For the Proposition 39 program, energy savings are based on the difference between annual energy use under existing conditions and annual energy use under proposed conditions. These annual energy savings, and the corresponding annual energy cost savings, are used to determine the cost-effectiveness of the projects. Demand savings are calculated as the difference between the electricity demand of existing equipment and electricity demand of proposed equipment.

SIR Alternative for Zero Net Energy LEAs

If, before December 19, 2013, each school site within an LEA had zero dollar utility bill or positive utility bill credit from excess clean energy generation, the LEA may consider submitting an energy expenditure plan with eligible energy projects using an alternative SIR process described below.

LEAs shall submit a narrative describing the facility (ies) background(s), the clean energy generation project(s) and the energy saving information which demonstrates how the proposed eligible energy measures meet the Public Resources Code 26206 (c) "All projects shall be cost effective: total benefits shall be greater than project costs over time." The LEA must describe its methodology for determining cost effectiveness and explain how it complies with this Public Resources Code section.

APPENDIX E: Effective Useful Life for Energy Measures in Years

| Energy Measure Category | Energy Measure | Effective Useful Life (years) |
|-------------------------------|--|---|
| | Interior Fixture Retrofit | 15 |
| | Interior Linear Fluorescent Relamping | 4 |
| Timber on | Interior LED Lighting | 15 |
| Lighting | LED Exit Signs | 16 |
| | CFL Lamp Retrofit | 3 |
| | Exterior Fixture Retrofit | 15 |
| | | |
| Lighting | Daylighting Controls | 8 |
| Controls | Occupancy Controls | 8 |
| | | |
| | HVAC and Air Handler Repairs | 5 |
| | Room, Window A <u>ir</u> C <u>onditioner</u> | 9 |
| | Packaged/Split <u>System Unit</u> Replacement/ Air Conditioner/Heat | 15 |
| | Pump/Variable Refrigerant Flow | 13 |
| | Fan Coil/Unit Ventilator/Condensing | 15 |
| | <u>Unit Replacement</u> | |
| | Evaporative Cooler | 15 |
| | Repair Economizer | 5 |
| | New Economizer | 10 |
| HVAC | <u>Demand Control Ventilation</u> | <u>10</u> |
| | Chiller/Boiler Replacement | 20 |
| | Duct Sealing | 11 |
| | Condensing Furnace | 15 |
| | VAV <u>Variable Air Volume</u> System | 15 |
| | Cooling Towers | 15 |
| | Steam Traps | 6 |
| | Retro-commissioning (Continuous) | 10 (with 5-year contractmaintenance commitment) |

| HVAC Controls | Programmable/Smart Thermostats | 11 |
|--------------------------|---|-----------|
| | Occupancy Controls/Door Switches | <u>8</u> |
| | Energy Management System | 15 |
| | Chiller Controls Upgrade | 20 |
| | | |
| | Insulation | 20 |
| Duilding | Cool Roofs | 15 |
| Building Envelope | Skylights | 20 |
| Liivelope | Window Replacement | 20 |
| | Shading Devices/Window Films | 10 |
| | Weather Stripping | <u>4</u> |
| | | |
| D Mataus | Premium Efficiency Motors | 15 |
| Pumps, Motors, Drives | Energy Efficient Pumps | 15 |
| Bilves | Variable Frequency Drives (VFDs) | 15 |
| | | |
| Pool | Swimming Pool Cover | 5 |
| | Pool Heater/Boiler Replacement | <u>20</u> |
| | | |
| | Domestic Hot Water Heater | 20 |
| Domestic Hot | Waste Heat Recovery | 14 |
| Water | Solar Water Heating | 15 |
| | Water Tank, Pipe Insulation | 10 |
| | <u>Domestic Hot Water Controls</u> | <u>11</u> |
| | | |
| Kitchen | High Efficiency Appliances | 12 |
| | Strip Curtain/Auto Closer for Walk-in Refrigerators/Freezers | 4 |
| | <u>Kitchen Equipment Controls</u> | <u>10</u> |
| | | |
| Immigration | Irrigation Pump Control | 11 |
| Irrigation | High Efficiency Sprinkler | 4 |
| | | |

| Energy Storage | Advanced Battery Storage | 10 (with <u>10-</u> <u>year vendor</u> warranty) | |
|----------------|--|--|--|
| | | | |
| Electrical | High Efficiency Transformer | 15 <u>20</u> | |
| | | | |
| Plug Loads | Power Management | 4 | |
| | Vending Machine Misers | 5 | |
| | | | |
| | Solar Photovoltaic (PV) | 20 | |
| Generation | Solar Photovoltaic (PV) | 25 (with <u>25-year</u> <u>panel</u> warranty) | |
| | Combined Heat and Power (Cogeneration) | 15 (with <u>15-</u> <u>year</u> vendor warranty) | |

Source: 2014 <u>Uupdates of Database for Energy Efficiency Resources (DEER) for most building related energy efficiency measures.</u>

Background: Effective Useful Life for Energy Measures in Years

The EUL list for the energy efficiency measures is mainly determined from the 2008 and 2011 updates of Database for Energy Efficiency Resources (DEER) for building related energy efficiency measures. The general approach for selecting EULs for the 2008 and 2011 DEER updates was to review the various data sources and their underlying strengths and weaknesses and provide EUL recommendations that were determined to be most appropriate, based on the information that was available.

There is insufficient data for renewable and other generation projects in the DEER database and there is not a consensus number for these projects. The Energy Commission will consider other renewable and generation projects on a case-by-case basis based on available information, required maintenance, and project warranty period.

APPENDIX F: Power Purchase Agreement SIR Calculation And Conditions

Use of Power Purchase Agreements to Finance Clean Energy Projects

A power purchase agreement (PPA) is a financing option under which a vendor installs, owns and maintains the clean energy system (typically solar) on LEA property under a contract the LEA will purchase the electricity generated by the system. The LEA pays for the electricity or other clean energy generated from the clean energy system over the life of the contract. The vendor owns, operates, and maintains the clean energy system for the life of the contract agreement.

Most LEAs have highly attractive, cost-effective energy efficiency measures available, and are strongly encouraged to consider energy efficiency measures first, as described in the Process to Receive K-12 Eligible Energy Project Award Funding, Step 4 – Sequencing of Facility Improvements. Ideally, schools develop long-term plans to invest their available capital resources, from Proposition 39 program awards and elsewhere, in ways that appropriately complement energy efficiency with operational improvements and clean energy generation projects.

If an LEA chooses to install clean energy projects using a PPA, the LEA may use Proposition 39 funds to invest in the project, provided the clean energy project meets the cost-effectiveness SIR criteria (Step 6) and the equipment is installed on the school site benefiting from the generated clean energy.

The PPA SIR shall be calculated using the following equation:

PPA SIR = NPV of LEA Utility Cost Savings NPV of LEA Electricity Cost Paid under PPA+NPV of P39 Contribution

- 1. NPV of LEA Utility Cost Savings: Net present value of annual utility cost savings after the PPA energy generation is installed.
- 2. NPV of LEA Electricity Cost Paid under PPA: Net present value of annual electricity cost paid to the PPA vendor under the PPA agreement
- 3. NPV of P39 Contribution: Net present value of total annual cost contribution from Prop 39 grant.

NPV Calculation Assumptions

• PPA Energy Escalation Rate = maximum up to 3% (nominal)

- Energy Cost Escalation Rate = 4% (nominal)
- Discount Rate = 5%
- Effective Useful Life (EUL) = up to 20 years
- Performance degradation Rate 0.7%. (if lower than 0.7%, a performance guaranty shall be provided in writing)

PPA Terms and Conditions

To expend Proposition 39 funds for a power purchase agreement, the following PPA Terms and Conditions must be met.

- 1. Letter of Intent: If an LEA intends to use Proposition 39 funds to finance a clean energy project using a PPA, the LEA must include a commitment letter signed by the LEA authorized representative to indicate why the clean energy PPA project could not be implemented without the Proposition 39 program award.
- 2. No Sole Source Agreement: The PPA agreement shall not be awarded through a sole source process as required by Public Resources Code section 26235(c) which states that "A community college district or LEA shall not use a sole source process to award funds pursuant to this chapter. A community college district or LEA may use the best value criteria as defined in paragraph (1) of subdivision (c) of Section 20133 of the Public Contract Code to award funds pursuant to this chapter." (Senate Bill 785 (Chapter 931, Statutes of 2014), adopted by the Legislature and signed into law by Governor Edmund G. Brown, Jr. on September 30, 2014, repealed Section 20133 of Chapter 1, Part 3, Division 2 of the Public Contract Code and further amended the statute.)

The Energy Commission plans to add a sample PPA solicitation package on the Proposition 39 Web page.

- 3. PPA clean generation project shall be sized to reduce up to 70% of the kWh energy consumption at the school site. (10% for weather variation, 20% for HVAC and lighting energy efficiency improvement).
- 4. The PPA vendor shall provide a Performance Guarantee ensuring at least 95 percent of estimated production over at least a 5-year period and must have a performance and production guarantee for the life of the PPA term with an appropriate panel production degradation rate.
- 5. In the event that actual production falls below this threshold, a PPA vendor must reimburse or compensate an LEA (at the applicable PPA rate) for the short fall.
- 6. The PPA vendor shall be responsible for designing, installing, operating and maintaining the energy generation project during the contract terms. If a roof mounted PV system is proposed, PPA vendor shall be responsible for the damage to the roof over at least a 5 year period.
- 7. The PPA vendor shall be responsible for all required permits (DSA, Fire Marshall, etc.)

| 8. | The PPA agreement shall define who owns the renewable energy certificates and include a statement, initialed by the LEA's authorized representative, that the PPA vendor has informed the LEA of all greenhouse gas attributes and value benefits. |
|----|--|
| | |
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APPENDIX G:

Estimating Job Creation and Workforce Development

The following questions offer a simple means of complying with the legal requirements of the Proposition 39 program.

1. What type of work will be completed through this project, and what is the project budget? Please fill in the corresponding budgets for each applicable type of work.

| Type of Work / Project | Budget | | | | |
|--|--------|--|--|--|--|
| ENERGY EFFICIENCY | | | | | |
| a. Energy efficiency measures for building envelope (e.g. insulation and air sealing, windows, doors, skylights, walls, roof) | | | | | |
| b. Energy efficiency measures for mechanical systems (e.g. heating, ventilating, air conditioning, plumbing) | | | | | |
| c. Energy efficiency measures for electrical systems (e.g. lighting fixtures, lighting controls) | | | | | |
| d. Other energy efficiency measures (please specify): | | | | | |
| e. Total Energy Efficiency Budget (add a through d) | | | | | |
| RENEWABLE ENERGY | | | | | |
| f. Solar energy generation system installation | | | | | |
| g. Other renewables (please specify): | | | | | |
| h. Total Renewable Energy Budget (add f and g) | | | | | |
| CLEAN ADVANCED DISTRIBUTED ENERGY | | | | | |
| i. Cogeneration/combined heat and power system | | | | | |
| j. Fuel cell generation system | | | | | |
| k. Other distributed energy system (please specify) | | | | | |
| l. Total Clean Energy Budget (add <u>i</u> l through k) | | | | | |
| TOTAL PROJECT | | | | | |
| m. Total Project Budget (add e, h, and l) | | | | | |

2. How many estimated direct job-years, will be created by the project?

| Type of Work / Project | Estimated Direct Job-Years Created |
|---|------------------------------------|
| a. Energy Efficiency (multiply project budget from #1e by 5.6 direct job- years per \$1 million invested) ^s | |
| b. Renewable Energy (multiply project budget from #1h by 4.2 direct job- years per \$1 million invested) ⁹ | |
| c. Clean Distributed Energy (multiply project budget from #11 by 4.2 direct job-years per \$1 million invested) ¹⁰ | |
| d. Total Project (add a through c) | |

_

⁷ A *job-year* is defined as a full-time job that lasts for one year—not one permanent job.

A A review of studies on labor intensity of energy efficiency projects indicates that on average 5.6 direct job-years are created per \$1 million invested for energy efficiency retrofits. See Zabin and Scott, Proposition 39: Jobs and Training for California's Workforce, page 11: http://www.irle.berkeley.edu/vial/publications/prop39_jobs_training.pdf 9 A review of two studies on solar PV labor intensity indicates that on average 4.2 direct job-years are created per \$1 million invested for solar energy generation system installation. See Zabin and Scott, page 11.

¹⁰ It is assumed all clean distributed energy generation systems have the same labor-to-investment ratios as the solar PV average of 4.2 direct job-years per \$1 million invested.

| 3. | How many estimated direct job-years will be filled by first-year |
|----|--|
| | apprentices? ¹¹ |

| • | Total direct | job-years | from #2d: | divided by 36 = | = |
|---|--------------|-----------|-----------|-----------------|---|
|---|--------------|-----------|-----------|-----------------|---|

- List the names of all state-certified apprenticeship programs for apprentices that will work on this project(s).
- Estimated budget for apprenticeships_____
- 4. Will other types of trainees be employed on this project? If so, how many and what types of trainees?
- 5. Will this project be subject to a community benefits agreement (CBA), community workforce agreement (CWA), or other mechanism that defines project co-benefits (e.g. targeted hire requirements, training program support), including but not exclusive to project co-benefits that accompany a project labor agreement?

11 Roughly two-thirds of the direct jobs on Proposition 39 projects will be in traditional construction trades occupations, according to occupational analysis from the 2011 California Workforce Education and Training Needs Assessment for Energy Efficiency, Distributed Generation, and Demand Response by the UC Berkeley Donald Vial Center. In public works construction the California Labor Code requires at least one hour of apprentice work for every five hours of journey-level work on a project. Therefore, apprentice jobs are roughly equivalent to total direct jobs multiplied by one-ninth (two-thirds times one-sixth) or, put more simply, total direct jobs divided by 9. Energy Commission staff estimates that first-year apprentices would comprise one-quarter of these apprentice jobs (equivalent

to total direct jobs divided by 36) based on the assumption that apprenticeship programs average four years and that there is an even distribution of first-year through fourth-year apprentices for these projects.

APPENDIX H:

Definitions

- a) American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
 ASHRAE is an international technical society organized to advance the arts and sciences of heating, ventilation, air-conditioning and refrigeration.
- b) **Applicant** Any entity applying for funds under this program.
- c) **Average Daily Attendance (ADA)** The State of California funds LEAs based on student attendance. ADA is the total days of student attendance divided by the total number of instructional days.
- d) **Award** The amount of funding allotted to an LEA in a fiscal year as calculated by the California Department of Education and as defined in Public Resources Code Section 26235(c)(6). The award is provided only upon approval of an energy expenditure plan by the Energy Commission.
- e) **Building Envelope** -The outer shell of the building that separates the controlled indoor environment from the uncontrolled outdoor environment or building enclosure.
- f) California Community Colleges Chancellor's Office (CCCCO) -The state agency that oversees the California Community College District system.
- g) California Conservation Corps (CCC) The state department that provides full-time employment opportunities for young men and women, ages 18-25, and veterans to gain work experience, skills, and training while performing important resource conservation projects for California.
- h) **California Department of Education (CDE)** The department responsible for overseeing the state's public school system and enforcing education law and regulation.
- i) California Energy Commission (Energy Commission) The primary state agency responsible for energy policy and planning.
- j) California Public Utilities Commission (CPUC) The state agency that regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies.
- k) California Workforce <u>Development Investment Board</u> (CW<u>DIB</u>) (formerly known as <u>the California Workforce Investment Board</u>) The state agency responsible for assisting the Governor in performing the duties and responsibilities required by the federal Workforce Investment Act of 1998.
- l) **Chairman** The member of the Energy Commission who directs the Public Adviser, the Executive Director, and other staff in the performance of their duties in conformance with the policies and guidelines established by the Energy Commission.
- m) **Citizens Oversight Board** The board created in PRC section 26210 that provides accountability, independent audits, and public disclosure of all Proposition 39 program funding.
- n) Data Analytics A "no-touch" or Web-based "virtual" energy assessment.
- o) **Division of the State Architect (DSA)** The state agency responsible for design and construction oversight for K–12 schools, community colleges, and various other state-owned and leased facilities.

- p) **Eligible Energy Project** An eligible energy project is an energy efficiency measure or bundled group of energy efficiency measures and/or clean energy installations (in or at one or more school sites) within an LEA.
- q) Eligible for Free and Reduced-Priced Meals (FRPM) Determined to meet federal income eligibility criteria or deemed to be categorically eligible for free or reducedpriced meals under the National School Lunch Program, as described in Part 245 of Title 7 of the Code of Federal Regulations.
- r) **Energy Efficiency Measure** A type of energy measure that improves energy efficiency.
- s) **Energy Expenditure Plan** The request by an LEA for Proposition 39 funding. The energy expenditure plan is submitted to the Energy Commission and includes technical description and specifications for proposed eligible energy measures.
- t) **Energy Measure** An installation or modification in a school site that improves energy efficiency or expands clean energy generation.
- u) **Energy Use Intensity (EUI)** The amount of energy used in a building relative to the size of the building.
- v) **Funding Award** Award of funds to an applicant under this program through a funding distribution, contract, grant, loan or interagency agreement.
- w) **Kbtus** One thousand British thermal units (btus). Btus is the traditional unit of energy. It is the amount of energy needed to cool or heat one pound of water by one degree Fahrenheit.
- x) **kWh** One kilowatt of electricity supplied for one hour.
- y) **kW** One thousand watts.
- z) Large Eligible Energy Project An energy efficiency measure or bundled group of energy efficiency measures and/or clean energy installations with a project cost (Proposition 39 funding share) totaling more than \$250,000 in or at a single school site.
- aa) **Lead Commissioner for Energy Efficiency Policy Matters** The member of the Energy Commission charged with policy direction for all matters concerning energy efficiency at the Energy Commission including, but not limited to, Proposition 39 implementation.
- bb) **Local Educational Agency (LEA)** A county office of education, school district, charter school, or state special school.
- cc) Local Utility- Energy utility (not a water utility).
- dd) Measure See "Energy Measure" for definition.
- ee) **Other non-repayable funds** Funding such as bond funding, deferred maintenance budget funding, general operation budget funding, private gifts, or other funds (not including Proposition 39 awards) used to finance the project. This is funding that does not need to be repaid.
- ff) **Program** California Clean Energy Jobs Act, Public Resources Code Division 16.3 added by Proposition 39 and SB 73.
- gg) **Program Element** The subject area designated for funding by the California Clean Energy Jobs Act or the 2013-14 Budget Act (that is, energy efficiency for LEAs).
- hh) **Project** See "Eligible Energy Project" for definition.

- ii) **Project Installation Cost** The total of all project costs including site preparation, equipment, and labor.
- jj) **Project Soft Cost** The project cost such as architectural and design fees, inspection fees, insurance, etc.
- kk) **Savings-to-Investment Ratio (SIR)** The SIR is the ratio of the present value savings to the present value costs of an energy efficiency measure or alternative energy generation.
- ll) **School Site** Any local educational agency facility site. Examples include a school campus, district office, county office of education facility or charter school facility.
- mm) **Second Principal Apportionment (P-2)** Apportionment based on the second period data that LEAs report to the CDE in April and May and is the final state aid payment for the fiscal year ending in June.
- nn) **Site Preparation** The first phase of construction-related activity of an eligible energy project that includes clearance and excavation of the site.
- oo) **State Superintendent of Public Instruction (SSPI)** The elected official of the State of California who superintends the schools of the state and is the executive officer of the CDE.
- pp) **Total Proposition 39 Award Amount** The Project Installation Cost minus rebates and other non-repayable funds.

APPENDIX I: List of Acronyms

| ADA | Average Daily Attendance |
|----------|--|
| ASHRAE | American Society of Heating, Refrigerating and Air-Conditioning Engineers |
| BTU | British Thermal Unit |
| CALGreen | California Code of Regulations, Title 24, Part 11, Green Building Standards |
| CBC | California Building Code |
| CCC | California Conservation Corps |
| CCCCO | California Community Colleges Chancellor's Office |
| CCCD | California Community College District |
| CCR | California Code of Regulations |
| CDE | California Department of Education |
| CEQA | California Environmental Quality Act |
| СОВ | Citizens Oversight Board |
| CPUC | California Public Utilities Commission |
| CWIB | California State Workforce Investment Board (renamed the California Workforce Development Board) |
| CWDB | California Workforce Development Board (formerly known as the California State Workforce Investment Board) |
| DSA | Division of the State Architect |
| ECAA | Energy Conservation Assistance Act |
| ECAA-Ed | Energy Conservation Assistance Act-Education Subaccount: Loan and Grant Program |
| EUI | Energy Use Intensity |
| FRPM | Free and Reduced-priced Meals |
| HVAC | Heating, Ventilation, and Air Conditioning |
| K-12 | Kindergarten through 12th Grade |
| Kbtus | One thousand British Thermal Units |
| kW | One thousand watts |
| kWh | One kilowatt of electricity supplied for one hour |

| LEA | Local Educational Agency |
|-------|--|
| LED | Light-Emitting Diode |
| O&M | Operations and Maintenance |
| P-2 | Second Principal Apportionment |
| PV | Photovoltaic |
| SB | Senate Bill |
| SIR | Savings-to-Investment Ratio |
| SQ FT | Square Footage |
| SSPI | State Superintendent of Public Instruction |