

To: Grants and Loans Office Date: 12 / 12 / 2011
 Project Manager: Karen Perrin Phone Number: (916) 654-4101
 Office: Special Projects Office Division: Fuels & Transportation Division MS- 23
 Project Title: City Of Pittsburg

Type of Request: (check one)

New Agreement: (include items A - F from below) Agreement Number: Assigned by the G&L Office
 Program: _____
 Solicitation Name: _____
 Legal Name of Recipient: _____
 Recipient's Full Mailing Address: _____
 Recipient's Project Officer: _____ Phone Number: () - ext. _____
 Email Address: _____
 Agreement Start Date: ____ / ____ / ____ Agreement End Date: ____ / ____ / ____
 Annual Energy Savings: \$ _____ Total Loan Amount: \$ _____
 Number of Repay Periods: (Leave blank if repay is based on energy savings)

Amendment: (Check all that apply) Agreement Number: 008-10 ECD
 Term Extension – New End Date: ____ / ____ / ____
 Change of Scope (include items A – G from below, as applicable)
 Loan Augmentation: \$ 250,000.00

ITEMS TO ATTACH WITH REQUEST:

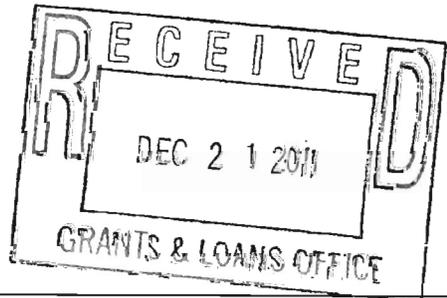
- A. Loan information including application and budget details.
- B. Recipient Resolution.
- C. Special Conditions, if applicable.
- D. CEQA Compliance Form CEC-280.
- E. Other Documents as applicable.
 - Copy of Pre-Award Correspondence
 - Copy of All Other Relevant Documents
- F. ECM Codes, if applicable.
- G. Justification for Amendment.

Funding Information:

*Source	<u>ECD</u>	Amount	\$ <u>250,000</u>	Statute	<u>1995</u>	FY:	<u>2011</u>	Budget List	<u>401.007D</u>
*Source		Amount	\$ <u>0.00</u>	Statute		FY:		Budget List	
*Source		Amount	\$ <u>0.00</u>	Statute		FY:		Budget List	

Business Meeting Approval: (refer to Business Meeting Schedule) Date due to Secretariat: 1 / 13 / 12
 Proposed Business Meeting Date: 2 / 08 / 2012 Consent Discussion
 Business Meeting Participant: Karen Perrin Time Needed: 5 minutes

Agenda Notice Statement: (This is the description that will appear on the agenda)
 Possible approval of Amendment #1 to loan 008-10-ECD for City of Pittsburg to increase the number of LED streetlight retrofits under the agreement. The original loan of \$425,000 will be increased to \$675,000. This will allow the City to purchase and install 128 additional streetlights. The project will save the City approximately \$65,000 annually and will have a 10.4 year payback.



 12/12/11  12/12/11  12/19/11
 Project Manager Date Office Manager Date Deputy Director Date

 Presiding Policy Committee Date Associate Policy Committee Date Executive Director Date

GRANT/LOAN AMENDMENT

CEC-140 (Revised 9/11)

CALIFORNIA ENERGY COMMISSION


 Check here if additional pages are attached. 4 Pages

AGREEMENT NUMBER:

008-10-ECD

AMENDMENT NUMBER:

1

1. This Agreement is entered into between the State Agency and the Recipient named below:

STATE AGENCY'S NAME

California Energy Commission

RECIPIENT'S NAME

City of Pittsburg

2. The term of this Agreement: From: 6/24/11 To: 7/31/133. The maximum amount of this Agreement after this amendment is: \$ 675,000.00

4. The parties mutually agree to this amendment as follows. All actions noted below are by this reference made a part of the Agreement and incorporated herein:

1. Augment the loan by \$250,000.00
2. Update the Budget Detail/Project Costs and Savings
3. Update the Estimated Amortization Schedule
4. Update the Special Conditions

All other terms and conditions shall remain the same.

5. Amendment Amount

Fund Title	Item	Fiscal Year	Chapter	Statute	Amendment Amount
ECAA	0033002-3360-95-501	11/12	611	1995	\$ 250,000.00
					\$
					\$
OBJECT CODE 4400-626.04-44034	Total				\$ 250,000.00

I hereby certify upon my own personal knowledge that budgeted funds are available for the period and purpose stated above.

SIGNATURE OF ACCOUNTING OFFICER

DATE

IN WITNESS WHEREOF, this Agreement has been executed by the parties hereto.

RECIPIENT

RECIPIENT'S NAME (If other than an individual, state whether a corporation, partnership, etc)

BY (Authorized Signature)

DATE SIGNED (Do not type)

NAME AND TITLE OF PERSON SIGNING

ADDRESS

STATE OF CALIFORNIA

AGENCY NAME

California Energy Commission

BY (Authorized Signature)

DATE SIGNED (Do not type)

NAME AND TITLE OF PERSON SIGNING

Rachel Kiley Grant , Manager Contracts, Grants, and Loans Office

ADDRESS

1516 9th Street, MS-18
Sacramento, CA 95814

**EXHIBIT A
ATTACHMENT 1
BUDGET DETAIL/PROJECT COST AND SAVINGS**

This loan is made to the City of Pittsburg (“Borrower”) for an energy savings Project. The Project consists of the energy efficiency measures listed in Table 1 below to be installed at various city streets in Pittsburg, CA.

The Table below summarizes the estimated Project cost(s), saving(s) and simple payback(s) for the Project.

TABLE 1: Summary of Project Cost and Savings:

Energy Efficiency Measures	Estimated Total Project Cost	Energy Commission Loan	Estimated Annual Energy Cost Savings	Simple Payback* (Years)
STREETLIGHTS				
Replace (16) single 70 Watt HPS fixtures with: (13) 40 Watt and (3) 48 LED fixtures				
Replace (100) single 100 Watt HPS with: (18) 48 W LED fixtures (63) 40 W LED fixtures (19) 32 W LED fixtures				
Replace (30) dual 200 Watt HPS with: (1) 48 W LED fixtures (9) 40 W LED fixtures (20) 28 W LED fixtures				
Replace (325) single 150 Watt HPS fixtures with: (136) 48 Watt LED fixtures (21) 56 Watt LED fixtures (19) 32 Watt LED fixtures (147)40 Watt LED fixtures (2) 32 Watt LED fixtures				
Replace (110) Dual 300 Watt HPS with: (27) 48 Watt LED Fixtures				

<p>(13) 56 Watt LED Fixtures (51) 40 Watt LED Fixtures (19) 56 Watt LED Fixtures</p> <p>Replace (32) Single 250 Watt HPS fixtures with: (26) 48 Watt LED fixtures (5) 56 Watt LED fixtures (1) 40 Watt LED fixtures</p> <p>Replace (6) Dual 96 Watt LED Lamps with: (4) Single 40 Watt LED Fixtures (2) Dual 28 Watt LED fixtures</p> <p>REMOVE (10) 100 Watt Lamps REMOVE (132) 150 Watt Lamps REMOVE (4) 96 Watt Lamps</p>				
TOTALS:	\$675,000.00	\$675,000	\$65,000	10.4

*The simple payback is based on the loan amount.

The Borrower shall implement each measure listed in Table 1.

If Borrower does not complete one or more of the measures or deviates from the quantities and specifications listed in Table 1, the Energy Commission will calculate the maximum loan amount supported by the Project. The loan amount will be determined by the lesser of: 1) multiplying the annual energy cost savings by 11 years; 2) total Project costs; or 3) approved loan amount.

A letter of agreement or loan amendment may be necessary to document these changes, at the discretion of the Energy Commission.

If the Borrower has received disbursements exceeding the maximum loan amount supported by the Project, the Borrower shall refund the difference to the Energy Commission within 30 days of notification.



State of California
 Energy Resources Conservation
 and Development Commission
 1516 Ninth Street
 Sacramento, California 95814-5512

Estimated Loan Amortization Table

Loan Number: 008-10-ECD	Number of Payments: 27
Recipient: City of Pittsburg	Estimated Disbursement Date: 5/31/2012
Loan Amount: \$250,000.00	Estimated Project Completion Date: 7/31/2013
Interest Rate: 3.00 %	Annual Energy Savings: \$65,000.00

Transaction Date	Payment Number	Invoice Number	Receipt Number	Disbursement Amount	Billing Invoice Interest Amount	Repay Principal Amount	Repay Interest Amount	Unscheduled Principal Amount	Unscheduled Interest Amount
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Trans #	Payment Date	Accrued Interest	Payment Amount	Interest Payment	Principal Payment	Principal Balance
Disbursement 1	5/31/2012	\$0.00	(\$675,000.00)	\$0.00	(\$675,000.00)	\$675,000.00
Payment 1	12/22/2014	\$51,873.29	\$32,442.65	\$32,442.65	\$0.00	\$675,000.00
Payment 2	6/22/2015	\$10,097.26	\$32,442.65	\$29,527.90	\$2,914.75	\$672,085.25
Payment 3	12/22/2015	\$10,108.90	\$32,442.65	\$10,108.90	\$22,333.75	\$649,751.50
Payment 4	6/22/2016	\$9,772.97	\$32,442.65	\$9,772.97	\$22,669.68	\$627,081.82
Payment 5	12/22/2016	\$9,432.00	\$32,442.65	\$9,432.00	\$23,010.65	\$604,071.17
Payment 6	6/22/2017	\$9,036.24	\$32,442.65	\$9,036.24	\$23,406.41	\$580,664.76
Payment 7	12/22/2017	\$8,733.83	\$32,442.65	\$8,733.83	\$23,708.82	\$556,955.95
Payment 8	6/22/2018	\$8,331.45	\$32,442.65	\$8,331.45	\$24,111.20	\$532,844.75
Payment 9	12/22/2018	\$8,014.57	\$32,442.65	\$8,014.57	\$24,428.08	\$508,416.67
Payment 10	6/22/2019	\$7,605.36	\$32,442.65	\$7,605.36	\$24,837.29	\$483,579.37
Payment 11	12/22/2019	\$7,273.56	\$32,442.65	\$7,273.56	\$25,169.09	\$458,410.29
Payment 12	6/22/2020	\$6,894.99	\$32,442.65	\$6,894.99	\$25,547.66	\$432,862.63
Payment 13	12/22/2020	\$6,510.73	\$32,442.65	\$6,510.73	\$25,931.92	\$406,930.71
Payment 14	6/22/2021	\$6,087.24	\$32,442.65	\$6,087.24	\$26,355.41	\$380,575.29
Payment 15	12/22/2021	\$5,724.27	\$32,442.65	\$5,724.27	\$26,718.38	\$353,856.91
Payment 16	6/22/2022	\$5,293.31	\$32,442.65	\$5,293.31	\$27,149.34	\$326,707.58
Payment 17	12/22/2022	\$4,914.04	\$32,442.65	\$4,914.04	\$27,528.61	\$299,178.97
Payment 18	6/22/2023	\$4,475.39	\$32,442.65	\$4,475.39	\$27,967.26	\$271,211.70
Payment 19	12/22/2023	\$4,079.32	\$32,442.65	\$4,079.32	\$28,363.33	\$242,848.38
Payment 20	6/22/2024	\$3,652.71	\$32,442.65	\$3,652.71	\$28,789.94	\$214,058.43
Payment 21	12/22/2024	\$3,219.67	\$32,442.65	\$3,219.67	\$29,222.98	\$184,835.46
Payment 22	6/22/2025	\$2,764.94	\$32,442.65	\$2,764.94	\$29,677.71	\$155,157.74
Payment 23	12/22/2025	\$2,333.74	\$32,442.65	\$2,333.74	\$30,108.91	\$125,048.83
Payment 24	6/22/2026	\$1,870.59	\$32,442.65	\$1,870.59	\$30,572.06	\$94,476.78
Payment 25	12/22/2026	\$1,421.03	\$32,442.65	\$1,421.03	\$31,021.62	\$63,455.16
Payment 26	6/22/2027	\$949.22	\$32,442.65	\$949.22	\$31,493.43	\$31,961.73
Payment 27	12/22/2027	\$480.74	\$32,442.47	\$480.74	\$31,961.73	\$0.00

EXHIBIT E

SPECIAL TERMS AND CONDITIONS

The Borrower shall provide a signed Resolution (or signed Resolution attachment) with language that includes the amount of the loan request.

The borrower is not authorized to expend the loan augmentation funds until a valid resolution has been submitted to the California Energy Commission.

Memorandum

To: Robert P. Oglesby
Executive Director

Date: December 12, 2011

Telephone: 916-654-4104

From: **California Energy Commission**
1516 Ninth Street MS-23
Sacramento CA 95814-5512

Subject: RECOMMENDATION TO APPROVE AN ENERGY CONSERVATION ASSISTANCE ACT (ECAA) LOAN AUGMENTATION FOR AN ADDITIONAL \$250,000 TO THE CITY OF PITTSBURG TO PURCHASE AND INSTALL ADDITIONAL LED STREETLIGHTS TO BE CONSIDERED AT THE FEBRUARY 8, 2012 BUSINESS MEETING.

Summary of Item

The City of Pittsburg has requested a loan augmentation to purchase and install 128 additional energy efficient LED streetlights. The loan will be increased from \$425,000 to \$675,000.

The interest rate for the loan will be 3.00 percent. The funding for this loan will come from the Energy Conservation Assistance Account Bond (ECD) funds.

The total installation is projected to cost \$675,000. Rebates are estimated at approximately \$60,000. Simple payback is 10.4 years based on the California Energy Commission loan amount.

The Table below summarizes the revised estimated project cost(s), saving(s) and simple payback(s) for the project.

TABLE 1: Estimated Energy Efficiency Project Savings:

Energy Efficiency Projects	Estimated Total Project Cost	Energy Commission Loan	Estimated Annual Energy Cost Savings	Total Project Cost Payback* (Years)
Retrofit 766 High Pressure Sodium to LED Streetlights and remove 146 Lamps	\$675,000	\$675,000	\$65,000	10.4

*Payback based on the loan amount.

The loan will continue to have a special condition that the Borrower shall provide a signed Resolution (or signed Resolution attachment) with language that includes:

- 1) CEQA compliance determination by the City
- 2) Updated amount of the loan request

Justification for Action Requested:

The retrofit project will save approximately \$65,000 annually in energy costs.

The City of Pittsburg is committed to reducing its energy consumption and to the reduction of greenhouse gas emissions. These projects will reduce harmful air pollution emissions by 584 tons of CO₂/yr. This loan will allow the City to save about 1,745,465 kWh and \$65,000 annually.

Energy Commission staff has determined that the request of the City of Pittsburg meets the requirements of the Energy Conservation Assistance Act (ECAA) program.

Project Manager

Karen Perrin, Energy Specialist I
Special Projects Office, Fuels and Transportation Division

Oral Presentation

Staff will be prepared to discuss this recommendation and to respond to questions regarding the loan.

Business Meeting Participants

Karen Perrin, Energy Specialist I

Commission Action Requested

Approve the loan and authorize the Executive Director to execute the loan documents.



PAT PEREZ, Deputy Director
Fuels and Transportation Division

City of Pittsburgh

Street Lighting Retrofit Project
Loan Augmentation

The following are the Pros and Cons to the Energy Commission of providing a loan to the City of Pittsburgh:

Pros:

- To reduce energy use, electrical demand, and greenhouse gas emissions through energy efficiency is consistent with the Energy Commission's *2010 Integrated Energy Policy Report*.
- Provides a loan to help the City install more energy efficiency streetlight that it may otherwise not be able to fund.

Cons:

- None