

April 25, 2016

Dear Grant Committee,

Thank you for the opportunity to apply for the EBSCO Solar grant. At the Altadena Library District, we are working hard to bring our libraries up to current energy efficient standards and have already implemented several improvements to the main library and its gardens. In making these improvements we have used it as an opportunity to create a community dialogue and to provide educational programming.

The Altadena Library District is located in unincorporated Los Angeles County, nestled beneath the foothills of the San Gabriel Mountains. The main library and our annex, the Bob Lucas Memorial Branch Library & Literacy Center, serve a diverse community of more than 50,000, with residents from a variety of cultural and economic backgrounds. The services that our libraries provide are enhanced by a wide-ranged of educational and community events which helps us to be a focal point of public services in this community.

During the last year and a half, since I became director of the Altadena Library District, my staff and I have been working towards bringing the library up to energy efficient standards. Right now we have been approaching it one step at a time and we would be excited to make solar energy our next step. In 2015, we replaced all the interior lights with LED lighting which has had a positive impact on our energy bills.

Currently, we are putting the finishing touches on our brand new Water Conservation garden. As California continues to experience a multi-year drought, we have replaced some of the landscaping surrounding the main library building with drought-tolerant plants. As the installation takes place, we have been hosting educational programming for the community to raise awareness for water conservation. In addition, we are going to be receiving a grant from the California State library to fund the purchase of a [i]cell Save Water Interactive Kiosk to place in the library, which will help us to continue to educate the community about the importance of water conservation even after the drought-tolerant garden is completed.

Another operating goal for 2016 is to install one to two electric car charging stations before the end of the year. Altadena has no public charging stations. We want to lead the community in promoting electric car use and see this as a fantastic opportunity to do so.

As you can see, we are serious about creating an energy efficient library and working to educate our community on this important topic. Installing a solar energy system to the main library building would be an exciting opportunity for us and our community. Adding solar to our library is a goal dear to my heart. Previously, I worked for the Anythink Libraries in Colorado and worked on the team that designed and created five LEED certified library buildings. This system-wide project to make all the libraries “greener” included adding a solar energy system to the Brighton Library in Brighton, Colorado. This building became the first carbon positive library in the United States. My goal for the Altadena Library District continues my work in Colorado—to make it both energy efficient and a model for the community.

Working with an Altadena-based company, Altadena Energy & Solar, we would be able to fund the installation for a fee of \$25,000 and would then pay a monthly maintenance fee that would be less than we currently pay for electricity. By approaching solar panel installation this way, we can avoid a lengthy fundraising process and can get the system installed more quickly.

Funding for this project would be a boon both for our main library and our community. It would afford us the opportunity to continue our long-term goals—serving the community, making our libraries energy efficient, and offering educational programming.

Mindy Kittay
Director, Altadena Library District

SECTION II

Legal Name of Library: Altadena Library District
dba: Same
Geographic area served: Altadena is an unincorporated community located in Los Angeles County, California
Tax Exemption Status: Not exempt
Number of Employees: 34
Hours and Days of Operation: Monday – Tuesday 10am - 9pm, Wednesday - Saturday 10am - 6pm, closed Sunday
Name of the Project: Altadena Library Solar Energy Project
Director Signature:

**SECTION III***Describe state solar programs:*

Currently, the incentive programs that are available to us are net energy metering and the federal tax credit. The net energy metering allows any systems currently being installed to obtain a 20-year agreement with the utility provider to get credit for excess energy generated. The federal tax credit and accelerated depreciation will be made use of through the third-party ownership structure provided by Altadena Energy & Solar.

As we seek to fund and implement the project, we will make use of any programs that become available.

Describe public procurement process in your state:

The procurement process in California allows for funds to be made available directly to the Altadena Library District.

List all state and local permits required other than a local building permit:

No additional permits are needed besides the usual county-required building permits. We will have to make arrangements with Southern California Edison, our utility provider, to be connected to their system, but this is not considered a permitting process.

Is your library subject to any historical or deed restrictions?

No

SECTION IV

Question 1 — Library Background

Altadena is an unincorporated community within Los Angeles County. Altadena Library District is an independent special district sandwiched between the city of Pasadena to the south and the San Gabriel Mountains to the north and serves approximately 53,000 people. Established in 1903, the original library was part of the Los Angeles Library system until it became an independent library system in 1926. The library's current location (600 East Mariposa St.) was opened in 1967. The building, designed by notable architect Boyd Georgi, is known for its mid-century design elements and unique landscaping.

The district also includes the Bob Lucas Memorial Branch Library and Literacy Center located a few miles from the main branch. Altadena Library District has an active Friends of the Library group and Foundation Group that are working, alongside with the library staff and Board, to raise funds for an ambitious renovation plan. With extensive outreach to the community, the plan was tentatively approved in 2009, but has yet to be funded.

The Altadena Library District serves a unique role even among libraries. As Altadena is an unincorporated community, there are no municipal or civic buildings for the community that offer a focal point for services. Altadena Library District is one of the only public places for community activities and programming. As such, the Library hosts over 300 community educational programs and events each year and actively looks for more ways to reach out to our community.

The Altadena Library District is funded primarily through property taxes. In 2014, the community overwhelmingly (85%) voted to renew a parcel tax levied on homeowners and apartment dwellers. The parcel tax accounts for nearly a third of the Library's operating budget. Every time this tax is approved by voters it is a vote of support for the continuing mission of the Altadena Library District. This tax renews every 10 years.

Question 2 — Goals

The Library is on a long-term plan to bring the library buildings and adjacent gardens up to the highest energy efficient standards. It began with the replacement of all the lights in the main Library building with LED lighting in 2015. Currently, a drought-tolerant, water conservation garden is being installed, which is due for its grand opening in June. By the end of 2016, one of our main operating goals is to install one to two electric car charging stations in the parking lot. When we do so, this will make the library the only public space in Altadena to provide a place to charge electric cars.

Our library is scheduled to undergo an extensive renovation in the next few years. A large portion of the renovation plan is to make the library building more energy efficient. Two of the main objectives of the plan are to replace all of the exterior glass windows and to replace the HVAC system. The main floor of the building that is open for public use, is surrounded by floor to ceiling windows on two sides and has a large number of oversized windows throughout the building. These windows have not been replaced since the building was built in 1967. The renovation plan includes installing double-pane, energy efficient windows. Our decades old HVAC system is in dire need of replacement and will be one of the first upgrades when the renovation is implemented.

Installing a solar energy system on the roof of the library goes hand-in-hand with our overall goals of updating the library for the 21st century. A solar energy system on the library roof will give us a big boost towards meet those goals and will give us the opportunity to work with and to educate our community about sustainability.

Question 3 — Educational Programs

Altadena Library District is working through a multi-year plan to make the library and its gardens more energy efficient. Whenever we undertake a new step in our plan, we look to see how we can involve the community. Whether it is through community input while in development or through educational programming, we seek to make sure we are serving our community in the best way we can.

We serve a community of approximately 53,000 people. During the 2014/2015 fiscal year, there were 350,000 visits to the library. We held 314 events with a total attendance of 10,040. As one of the only municipal services working in the community, the library holds a key role in both service and education. We have a history of working closely with the residents of our service area in developing the library's role in the community.

Comprehensive renovation plans for the library were approved in 2009 after a two year process during which we extensively sought community input. The water conservation garden, which will have its grand opening in June, has been a process where we sought to engage and educate our community on the critical importance of water conservation and methods by which drought-tolerant gardens can be established. In fact, the installation of this garden was done using at-risk young adults working for the LA Corps. This is a critical program for us, as California is experiencing a multi-year drought. As all communities in California are working to reduce water use, we are working within our community as both an example and an educator.

Adding a solar energy system to the main library building will be another way to help educate our community about solar energy and its uses as a renewable energy source. We foresee the opportunity to engage the community before, during, and after the installation of the system. Programming will range from the "science of solar" for kids to community outreach about how residents can install solar energy systems on their own homes.

Question 4 — Project Request

For this grant, we are asking for \$27,000. The proposal we are working with has a flat rate of \$25,000 for the installation of the system, an additional \$2,000 would be for administrative costs and program implementation.

We are working with a locally owned and operated solar company Altadena Energy & Solar (AES). Their proposal (see attachment, page 20) stipulates a 20-year power purchase agreement where there is an initial down payment of \$25,000 and a monthly charge. The monthly charge is a per kWh charge based on electricity production each month. The starting value is 16 c/kWh and would increase at fixed-rate of 2% a year. The system should produce approximately two-thirds of the energy that the library currently uses, while a storage system will ensure that the savings to the library exceeds the monthly energy delivery charges. The system would be installed over six to nine months (length depends on the permitting process) starting as soon as funds are made available.

The main building of the Altadena Library District is nearly 50 years old and was built during a time when Southern Californians felt rich in natural resources. As time has proven, this is not the case. By working to bring the library building to 21st century standards, not only will we be saving the library money, we will be showing our community that we are good stewards of their tax dollars and are working to bring them even more benefits than before. In addition, a long-term goal of the library is to make it into the leading "green" municipal building in the area, so that we can lead by example in our community.

Information about the roof:

Type of roof: Flat with a title 24 coating

Size: 25,000 sq. ft.

Roof size facing south: Since the roof is flat, there is not a part that is not available for direct sunlight. However, there is other equipment installed on the roof. Parts of the roof are shaded by old growth trees. We have hired a contractor to assess and remove any trees that are sick and to cut back those that are overhanging the roof. The installation of solar can be implemented around these impediments.

Age of roof and years until next schedule replacement: The roof was replaced in 2008 and there are no plans as to the next replacement.

Need for repairs: None

Is there an infrared assessment available? No

Information about electricity usage:
Annual electric expenditures and kilowatt usage:

Billing Period 2015	Kilowatt Usage	Expenditure
Dec. 16 - Jan. 16	14,304	\$2,020.96
Jan. 16 - Feb. 17	15,114	\$2,145.85
Feb. 17 - Mar. 18	19,718	\$2,601.59
Mar. 18 - Apr. 17	20,830	\$2,681.68
Apr. 17 - May 18	18,109	\$2,356.74
May 18 - Jun. 17	17,058	\$3,176.56
Jun. 17 - Jul. 17	22,982	\$4,690.93
Jul. 17 - Aug. 17	24,810	\$5,029.05
Aug. 17 - Sep. 16	24,317	\$5,041.65
Sep. 16 - Oct. 16	24,464	\$4,081.54
Oct. 16 - Nov. 17	19,221	\$2,632.57
Nov. 17 - Dec. 17	15,248	\$2,125.68

Last 12 months of electric bills: See Attachment 5 (page 14)

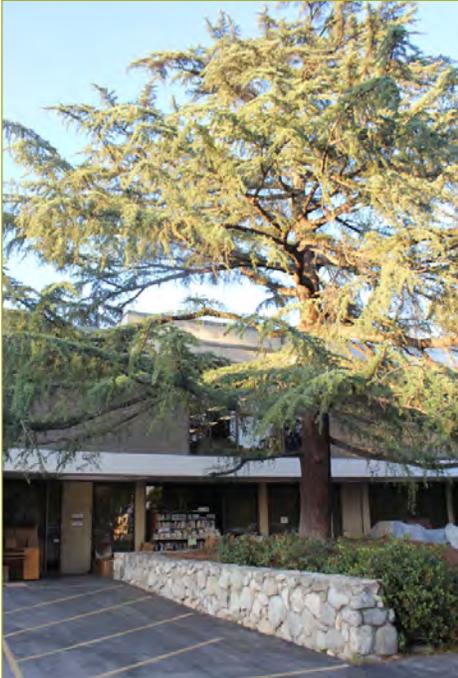
Does the library pay separately for electricity? We pay for our own electricity.

Does the library have a separate meter? Yes

Does the library share space with another municipal office? No

SECTION V

Photos

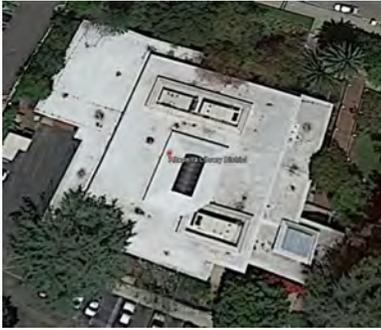


Library exterior and Library main entrance



Library interior, main collection area. The library design includes such mid-century design elements as the sunken reading area with a live palm tree beneath a skylight and floor-to-ceiling windows.





Library roof – Aerial view via Google



*Above: Water Conservation Garden in progress.
Above right: Local artist, educator, and water conservationist Leigh Adams spoke about her water conservation work at the Los Angeles Arboretum and other public spaces, as well as in her own backyard.
Right: We love our community and our community appreciates all we do. This is a “Love Note” wall with notes from our patrons.*



Financial Attachments

Attachment 1: Board of Directors

President – Meredith McKenzie

McKenzie is a resident of Altadena and is a Broker Associate with Podley Properties in Pasadena. Her term ends 12/6/2017.

Secretary – Adalila Zelada-Garcia

Zelada-Garcia is a resident of Altadena and is the Sole Practitioner at the Law Offices of Adalila Zelada-Garcia. Her term ends in December 2019.

Trustee – David Tuck

Tuck resides in Pasadena and is currently retired. His term ends 12/6/2017.

Trustee – Gwendolyn McMullins

McMullins is a resident of Altadena and is currently retired. Her term ends in December 2019.

Trustee – John McDonald

McDonald resides in Altadena and is the Associate Dean for Collections at the University of Southern California Libraries. His term ends in December 2019.

Attachment 2: Not applicable

Attachment 3: Key staff

District Director

Mindy Kittay has been in this position for 1.6 years. She is responsible for the operation and continuous improvement of the District, operation of both the main library and the branch library, all management and administrative functions associated with the operations including planning, budgeting, facilities, community and public relations. She reports to the Board of Trustees. Previously Mindy was part of the leadership for the Anythink Libraries in Colorado and worked on the design and creation of five LEED certified buildings. She was directly involved with the installation of solar at Brighton Library, in Brighton, Colorado. This library was the first carbon positive library in the U.S.

Finance/HR Director

Tina Wallin has been in this position for four years. She is responsible for operations, finance, accounting, human resources, and risk management functions for the district. Previously, she served as the finance and human resource assistant for four years. Tina's background is in project management/administration. She has completed numerous finance and HR-related training courses. She holds a bachelor's degree in Art History.

IT Manager

Christopher Kellermeyer has 22 years of experience in information technology and has been with the Library for one year. His experience runs the gamut with six years' experience in management. He knows two programming languages and three scripting languages. He is knowledgeable across all commercial platforms (hardware and applications), including four virtualization platforms. He has experience building Koha open source ILS from the ground up and III-Millennium. He has a master's degree in Business Administration.

Public Services Director

William Roy has been with the library for one year and has over 16 years' experience working with libraries, 12 of those as a department manager or library administrator. He has experience with several Integrated Library Systems, including software by SirsiDynix, The Library Corporation, and Innovative Interfaces, Inc. He has specialized knowledge of digital media lab management, promotional filmmaking, and non-linear video editing. He holds a master's degree in Library & Information Science.

Building Maintenance Supervisor

Felipe Avila has been a key staff member with the Library District for 27 years. He is responsible for building repairs, landscaping, preventive maintenance, repairs, costing, material procurement, general cleaning, and special projects. He manages part-time maintenance personnel.

Attachment 4: Annual Report

Honoring the Past,
Cultivating the Present,
Empowering the Future.



2014/2015 Annual Report

VISION

The Altadena Library District continually aspires to meet the present, future, and constantly changing needs and interests of its diverse clientele. It is becoming the cultural, informational, and technological hub of the community.

2014/2015 was a year of excitement, innovation and creativity at the Altadena Libraries. Every month we improved or added new features to create a more dynamic and expansive library for our community. From live music on Second Saturday to Inspiration Stations and events and classes for all ages. Of course the highlight in November was the overwhelming support of our community by passing Measure A with over 85% voting "yes!"

A new Director, Mindy Kittay, was hired in November. Shortly thereafter the District added a Public Services Director, Ryan Roy and hired a new Literacy Coordinator, Edward William. Staff training days and other opportunities for staff to learn new and updated skills were offered this year as well.

We created a separate business office, and added more days and hours for passports. The addition of high quality color & black and white printing/scanning and faxing, and One Gig of wireless Internet access has brought many small business owners and entrepreneurs into the library.

The District eliminated many of the fees associated with its services.

We no longer charge for holds, DVD's or game rentals. The cost to borrow a book from another library was reduced substantially, and we offered two separate opportunities for fine forgiveness in return for donations to families in need.

We continue working to make our facilities comfortable and functional. Our main library is now lit by 100% LED. New seating areas were created close to windows and views, and we have added areas for creativity and collaboration throughout the Library.

Communication with our users and community has seen a tremendous surge with our monthly newsletter "Know It All," weekly e-blasts to our email list of over 10,000 people, a strong presence on the Internet and social networking sites.



This year we were especially successful increasing our funding by receiving grants supporting us in everything we do. The Friends of the Altadena Library donated \$40,000 for materials and programming. The State Library awarded \$30,000 for upgrades

to our technology infrastructure, and another \$30,000 to support our Teen DIY program. The State Library funded our Literacy Program for \$22,877.

"This library is extraordinary! The excellent customer service given by each employee fulfills the circumference with positivity and warmth. Everyone has always been welcome and treated as such from my experience of coming over the years. I want to say that being here contributed to my success and I'm appreciative of this library.— Thank you!"

The Altadena Libraries are a trusted community resource and the go-to place for learning, creativity, and innovation in our community. We are dedicated to providing access to education, learning opportunities, and social connections. Susan Hildreth, past Director of the Institute of Museum and Library Services, says, "We are no longer gatekeepers; we are navigators." The Altadena Libraries are here to be your navigators, we are eager to serve and assist and we look forward to your next visit!



Library fans rally to support Measure A



WHO?

- **Service Area Population:** 53,177
- **Library Card Holders:** 23,406
- **New Cards Issued:** 2,277
- **Staff:** 34



WHAT?

- **Items in Collection:** 124,696
- **Electronic Books:** 2,000
- **On-line Research Tools:** 9
- **Computers & Chrome books:** 39



HOW?

- **Visits:** 350,145
- **Items Loaned:** 203,974
- **Books Downloaded:** 3,816
- **Holds on Materials:** 1,479



- **Research Questions:** 31,096
- **Literacy Tutor Hours:** 1,525



- **Website Visits:** 734,722
- **Computer Usage:** 46,933
- **Wireless Usage:** 43,058
- **Events Offered:** 314
- **Event Attendance:** 10,040
- **Passports Issued:** 1,967

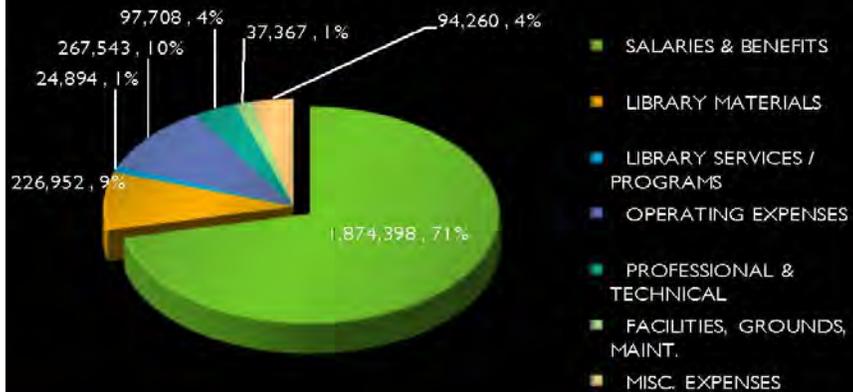


"This is one of the best libraries to come to... the Librarians have excellent customer service and treat everyone fairly. I appreciate this library and everything it has to offer!"

2014/2015 REVENUES:



2014/2015 EXPENSES:



- ◆ The District's total revenues increased by 4.94% or \$144,312, to \$3,067,165 in fiscal year 2015 due primarily to an increase in property tax revenues.
- ◆ The District's total expenses increased by 0.99% or \$25,887, to \$2,634,863 in fiscal year 2015 due primarily to increases in library operational costs.
- ◆ The District's change in net position for the year ending June 30, 2015 was \$432,302.
- ◆ Implementation of new pension standards increased liability of \$1,411,297 for the year ending June 30, 2015.

Board of Trustees

Meredith McKenzie, President
 Gwendolyn McMullins, Secretary
 Adalila Zelada-Garcia
 John D. McDonald
 David Tuck

Board meetings are held every fourth Monday of the month at 5PM in the Library's Community Room (no meeting in December)



Our Altadena Libraries. Read On

Staff Leadership

Mindy Kittay, Director
 Tina Wallin, Finance Director
 Ryan Roy, Public Services Director

♦ Main Library
 600 E. Mariposa St.
 Altadena, CA 91001
 (626) 798-0833

♦ Bob Lucas Branch
 2659 N. Lincoln Ave.
 Altadena, CA 91001
 (626) 798-8338

"I am impressed with the quality of the Altadena Library's holdings. The thoughtful, excellent selections over the years have been both a personal benefit and an enrichment to our community. Thanks very much to all responsible."

ALTADENA LIBRARY FOUNDATION

The Altadena Library Foundation supports and enriches the facilities, resources, and services of the Altadena Library District. We will accomplish our mission through fundraising and advocacy.

For more information go to
<http://www.altadenalibrary.org/altadena-library-foundation>

♦ Online at www.altadenalibrary.org
 Browse the library's collection, download books, renew materials, and more online.



Friends of the Altadena Library

"Without libraries what do we have? We have no past and no future."

— Ray Bradbury

The Friends of the Library meet on the first Monday of each month (except July and August) at 7:30 pm in the Community Room. You do not have to be a member to attend. For info go to www.altadenalibrary.org/friends-library.

Attachment 5: Library electric bills

Go paperless at www.sce.com/ebilling. It's fast, easy and secure.

SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

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Rosemead, CA
91772-0001
WWW.SCE.COM

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Your electricity bill

For billing and service inquiries call 1-800-990-7788.
Mon - Fri 7 a.m. to 7 p.m., and Saturday 8 a.m. to 5 p.m.
For emergency services call 24 hrs a day, 7 days a week

Date bill prepared: Jan 17 '15

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

Your account summary

Amount of your last bill \$2,643.45
Payment we received on Dec 31 '14 - thank you -\$2,643.45
Balance forward \$0.00
Your new charges \$2,020.96
Total amount you owe by Feb 5 '15 \$2,020.96

Compare the electricity you are using

For meter 259000-025058 from Dec 16 '14 to Jan 16 '15
Total electricity you used this month in kWh 14,304
Your next billing cycle will end on or about Feb 17 '15.
Maximum demand is 45 kW

	Electricity (kWh)	Demand (kW)
Winter Season	8,113	45 (Dec 16 '14 08:30 to 08:45)
Mid peak	6,191	38 (Dec 18 '14 07:30 to 07:45)
Off peak	14,304	

Your daily average electricity usage (kWh)

* No data available

Please return the payment stub below with your payment and make your check payable to Southern California Edison.
If you want to pay in person, call 1-800-741-6868 for locations, or you can pay online at www.sce.com.

Go paperless at www.sce.com/ebilling. It's fast, easy and secure.

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Usage comparison

	Jan '13	Jan '14	Feb '14	Mar '14	Apr '14	May '14	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15
Total kWh used	16,166	19,267	21,822	18,011	21,939	26,732	27,708	26,841	31,091	25,763	23,568	19,542	14,304	14,304
Number of days	32	29	32	30	29	32	30	29	32	30	29	32	31	31
Appx. average kWh used/day	505	664	682	600	758	836	926	925	971	857	815	610	461	461

Details of your new charges

Your rate: TOU-GS-2-B
Billing period: Dec 16 '14 to Jan 16 '15 (31 days)

Delivery charges

Facilities rel demand	45 kW x \$12.71000 x 16/31 days	\$285.20	Your Delivery charges include: • \$140.30 transmission charges • \$650.94 distribution charges • \$1.00 nuclear decommissioning charges • \$153.99 public purpose programs charge • \$130.31 new system generation charge Your Generation charges include: • \$21.17 competition transition charge Your overall energy charges include: • \$18.28 franchise fees Additional information: • Service voltage: 208 volts
Energy-Winter		\$92.65	
Mid peak	3,966 kWh x \$0.02326	\$92.23	
Off peak	3,092 kWh x \$0.02336	\$97.33	
Mid peak	4,147 kWh x \$0.02347	\$97.33	
Off peak	3,099 kWh x \$0.02347	\$72.73	
DWR bond charge	7,058 kWh x \$0.00513	\$36.21	
DWR bond charge	7,246 kWh x \$0.00526	\$38.11	
Customer charge		\$100.30	
Customer charge		\$96.19	

Generation charges

DWR	7,058 kWh x -\$0.00037	-\$2.61
DWR energy credit	7,246 kWh x -\$0.00172	-\$12.46
SCE		
Energy-Winter		
Mid peak	3,966 kWh x \$0.07124	\$282.54
Off peak	3,092 kWh x \$0.04654	\$143.90
Mid peak	4,147 kWh x \$0.06734	\$279.26
Off peak	3,099 kWh x \$0.04447	\$137.81

Subtotal of your new charges \$2,016.81
 ULT exempt \$4.15
 State tax 14,304 kWh x \$0.00029 \$4.15
Your new charges \$2,020.96

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Your electricity bill

For billing and service inquiries call 1-800-990-7788.
Mon - Fri 7 a.m. to 7 p.m., and Saturday 8 a.m. to 5 p.m.
For emergency services call 24 hrs a day, 7 days a week

Date bill prepared: Feb 18 '15

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

Your account summary

Amount of your last bill \$2,020.96
Payment we received on Feb 04 '15 - thank you -\$2,020.96
Balance forward \$0.00
Your new charges \$2,145.85
Total amount you owe by Mar 9 '15 \$2,145.85

Compare the electricity you are using

For meter 259000-025058 from Jan 16 '15 to Feb 17 '15
Total electricity you used this month in kWh 15,114
Your next billing cycle will end on or about Mar 18 '15.
Maximum demand is 51 kW

	Electricity (kWh)	Demand (kW)
Winter Season	8,270	51 (Feb 2 '15 19:00 to 19:15)
Mid peak	6,844	51 (Feb 14 '15 13:45 to 14:00)
Off peak	15,114	

Your daily average electricity usage (kWh)

* No data available

Please return the payment stub below with your payment and make your check payable to Southern California Edison.
If you want to pay in person, call 1-800-741-6868 for locations, or you can pay online at www.sce.com.

Go paperless at www.sce.com/ebilling. It's fast, easy and secure.

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Usage comparison

	Feb '13	Feb '14	Mar '14	Apr '14	May '14	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15
Total kWh used	17,047	21,822	18,011	21,939	26,732	27,708	26,841	31,091	25,763	23,568	19,542	14,304	14,304	15,114
Number of days	29	32	30	30	32	30	29	32	30	29	32	31	32	32
Appx. average kWh used/day	587	682	600	731	836	926	925	971	857	815	610	461	461	472

Details of your new charges

Your rate: TOU-GS-2-B
Billing period: Jan 16 '15 to Feb 17 '15 (32 days)

Delivery charges

Facilities rel demand	51 kW x \$13.20000	\$673.20	Your Delivery charges include: • \$159.95 transmission charges • \$757.68 distribution charges • \$4.23 nuclear decommissioning charges • \$163.53 public purpose programs charge • \$127.69 new system generation charge Your Generation charges include: • \$22.37 competition transition charge Your overall energy charges include: • \$19.41 franchise fees Additional information: • Service voltage: 208 volts
Energy-Winter		\$194.10	
Mid peak	8,270 kWh x \$0.02347	\$194.10	
Off peak	6,844 kWh x \$0.02347	\$160.63	
DWR bond charge	15,114 kWh x \$0.00526	\$79.50	
DWR bond charge	15,114 kWh x \$0.00526	\$79.50	
Customer charge		\$198.79	

Generation charges

DWR	15,114 kWh x -\$0.00172	-\$26.00
DWR energy credit		
SCE		
Energy-Winter		
Mid peak	8,270 kWh x \$0.06734	\$556.90
Off peak	6,844 kWh x \$0.04447	\$304.35

Subtotal of your new charges \$2,141.47
 ULT exempt \$4.38
 State tax 15,114 kWh x \$0.00029 \$4.38
Your new charges \$2,145.85

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Your electricity bill

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E. MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

For billing and service inquiries call 1-800-990-7788, Mon - Fri 7 a.m. to 7 p.m. and Saturday 8 a.m. to 5 p.m. For emergency services call 24 hrs a day, 7 days a week.

Date bill prepared: Mar 19 '15

Your account summary

Amount of your last bill	\$2,145.85
Payment we received on Mar 05 '15 - thank you	-\$2,145.85
Balance forward	\$0.00
Your new charges	\$2,601.59
Total amount you owe by Apr 7 '15	\$2,601.59

Compare the electricity you are using

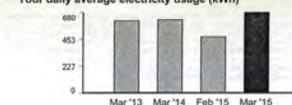
For meter 259000-025058 from Feb 17 '15 to Mar 18 '15
Total electricity you used this month in kWh 19,718

Your next billing cycle will end on or about Apr 17 '15.

Electricity (kWh)	Demand (kW)
Winter Season	58
Mid peak	10,191 (Feb 17 '15 17:15 to 17:30)
Off peak	9,527 (Feb 21 '15 11:30 to 11:45)
Total	19,718

Maximum demand is 58 kW

Your daily average electricity usage (kWh)



* No data available

Please return the payment stub below with your payment and make your check payable to Southern California Edison. If you want to pay in person, call 1-800-747-8908 for locations, or you can pay online at www.sce.com.

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MAR 2 2 2015

Your electricity bill

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E. MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

For billing and service inquiries call 1-800-990-7788, Mon - Fri 7 a.m. to 7 p.m. and Saturday 8 a.m. to 5 p.m. For emergency services call 24 hrs a day, 7 days a week.

Date bill prepared: Mar 19 '15

Usage comparison

	Apr '13	Apr '14	May '14	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15
Total kWh used	17,703	21,039	26,752	27,708	26,961	31,081	25,763	21,868	19,547	14,304	15,114	19,718	20,830	
Number of days	29	29	30	30	29	30	30	29	30	31	29	29	30	
Avg. average kWh use/day	612	725	892	924	930	1038	859	754	650	461	472	679	694	

Details of your new charges

Your rate: TOU-GS-2-B
Billing period: Mar 18 '15 to Apr 17 '15 (30 days)

Category	Amount
Delivery charges	
Facilities rel demand	58 kW x \$13.20000
Energy-Winter	\$765.00
Mid peak	10,566 kWh x \$0.02346
Off peak	10,264 kWh x \$0.02346
DWR bond charge	20,830 kWh x \$0.00526
Customer charge	\$109.57
Generation charges	
DWR	20,830 kWh x -\$0.00172
SCE	-\$35.83
Energy-Winter	
Mid peak	10,566 kWh x \$0.06623
Off peak	10,264 kWh x \$0.04375
Subtotal of your new charges	\$2,675.64
LIUT exempt	
State tax	20,830 kWh x \$0.00029
Your new charges	\$2,681.68

Your Delivery charges include:

- \$180.63 transmission charges
- \$846.67 distribution charges
- \$5.83 nuclear decommissioning charges
- \$225.17 public purpose programs charge
- \$189.77 new system generation charge

Your Generation charges include:

- \$30.83 competition transition charge

Your overall energy charges include:

- \$24.25 franchise fees

Additional information:

- Service voltage: 208 volts

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APR 2 2 2015

Your electricity bill

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E. MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

For billing and service inquiries call 1-800-990-7788, Mon - Fri 7 a.m. to 7 p.m. and Saturday 8 a.m. to 5 p.m. For emergency services call 24 hrs a day, 7 days a week.

Date bill prepared: Apr 18 '15

Your account summary

Amount of your last bill	\$2,601.59
Payment we received on Apr 01 '15 - thank you	-\$2,601.59
Balance forward	\$0.00
Your new charges	\$2,681.68
Total amount you owe by May 7 '15	\$2,681.68

Compare the electricity you are using

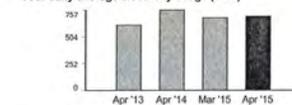
For meter 259000-025058 from Mar 18 '15 to Apr 17 '15
Total electricity you used this month in kWh 20,830

Your next billing cycle will end on or about May 18 '15.

Electricity (kWh)	Demand (kW)
Winter Season	58
Mid peak	10,566 (Mar 20 '15 18:30 to 18:45)
Off peak	10,264 (Mar 28 '15 13:00 to 13:15)
Total	20,830

Maximum demand is 58 kW

Your daily average electricity usage (kWh)



* No data available

Please return the payment stub below with your payment and make your check payable to Southern California Edison. If you want to pay in person, call 1-800-747-8908 for locations, or you can pay online at www.sce.com.

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Your electricity bill

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E. MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

For billing and service inquiries call 1-800-990-7788, Mon - Fri 7 a.m. to 7 p.m. and Saturday 8 a.m. to 5 p.m. For emergency services call 24 hrs a day, 7 days a week.

Date bill prepared: Apr 18 '15

Usage comparison

	Mar '13	Mar '14	Apr '14	May '14	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15
Total kWh used	18,813	18,021	21,939	25,752	27,708	26,961	31,081	25,763	21,868	19,547	14,304	15,114	19,718	
Number of days	30	30	29	30	30	29	30	30	29	30	31	29	29	
Avg. average kWh use/day	627	601	757	858	924	930	1038	859	754	650	461	472	679	

Details of your new charges

Your rate: TOU-GS-2-B
Billing period: Feb 17 '15 to Mar 18 '15 (29 days)

Category	Amount
Delivery charges	
Facilities rel demand	58 kW x \$13.20000
Energy-Winter	\$765.00
Mid peak	4,061 kWh x \$0.02347
Off peak	3,805 kWh x \$0.02347
Mid peak	6,130 kWh x \$0.02346
Off peak	5,722 kWh x \$0.02346
DWR bond charge	19,718 kWh x \$0.00526
Customer charge	\$198.79
Generation charges	
DWR	19,718 kWh x -\$0.00172
SCE	-\$33.91
Energy-Winter	
Mid peak	4,061 kWh x \$0.06734
Off peak	3,805 kWh x \$0.04447
Mid peak	6,130 kWh x \$0.06623
Off peak	5,722 kWh x \$0.04375
Subtotal of your new charges	\$2,595.87
LIUT exempt	
State tax	19,718 kWh x \$0.00029
Your new charges	\$2,601.59

Your Delivery charges include:

- \$181.02 transmission charges
- \$842.92 distribution charges
- \$5.52 nuclear decommissioning charges
- \$213.23 public purpose programs charge
- \$179.63 new system generation charge

Your Generation charges include:

- \$29.18 competition transition charge

Your overall energy charges include:

- \$23.52 franchise fees

Additional information:

- Service voltage: 208 volts

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Date bill prepared: May 19 '15

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

Your account summary

Amount of your last bill \$2,681.68
Payment we received on Apr 29 '15 - thank you -\$2,681.68
Balance forward \$0.00
Your new charges \$2,356.74
Total amount you owe by Jun 8 '15 \$2,356.74

For meter 259000-025058 from Apr 17 '15 to May 18 '15
Total electricity you used this month in kWh 18,109

Compare the electricity you are using

Electricity (kWh)	Demand (kW)
Winter Season	51 (Apr 28 '15 15:45 to 16:00)
Mid peak	51 (May 2 '15 11:15 to 11:30)
Off peak	
Total	18,109

Maximum demand is 51 kW

Your daily average electricity usage (kWh)

116-5761 Tear here

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Usage comparison

	May '13	May '14	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15
Total kWh used	22,554	25,752	27,798	26,841	31,091	25,763	21,568		19,542	14,304	15,114	19,716	20,830	18,109
Number of days	29	32	30	29	32	30	29		30	31	32	29	30	31
Avg. average kWh use/day	779	806	926	929	971	858	743		650	461	472	679	694	584

Details of your new charges
Your rate: TOU-GS-2-B
Billing period: Apr 17 '15 to May 18 '15 (31 days)

Delivery charges

Facilities rel demand	51 kW x \$13.20000	\$673.20	Your Delivery charges include: • \$158.90 transmission charges • \$767.78 distribution charges • \$5.07 nuclear decommissioning charges • \$195.76 public purpose programs charge • \$164.97 new system generation charge
Energy-Winter	8,821 kWh x \$0.02346	\$206.94	
Mid peak	9,288 kWh x \$0.02346	\$217.90	
Off peak	18,109 kWh x \$0.00526	\$95.25	
Customer charge		\$198.79	

Generation charges

DWR			Your Generation charges include: • -\$26.80 competition transition charge • \$21.31 franchise fees
DWR energy credit	18,109 kWh x -\$0.00172	-\$31.15	
SCE			

Subtotal of your new charges \$2,351.49

LIUT exempt \$5.25

State tax 18,109 kWh x \$0.00029 \$5.25

Your new charges \$2,356.74

Additional information:
• Service voltage: 208 volts

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Date bill prepared: Jun 18 '15

Customer account 2-28-627-1069

Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001

Rotating outage Group N001

Your account summary

Amount of your last bill \$2,356.74
Payment we received on Jun 03 '15 - thank you -\$2,356.74
Balance forward \$0.00
Your new charges \$3,176.56
Total amount you owe by Jul 7 '15 \$3,176.56

For meter 259000-025058 from May 18 '15 to Jun 17 '15
Total electricity you used this month in kWh 17,058

Compare the electricity you are using

Electricity (kWh)	Demand (kW)
Winter Season	51 (May 29 '15 14:45 to 15:00)
Mid peak	45 (May 30 '15 13:00 to 13:15)
Off peak	
Summer Season	
On peak	58 (Jun 8 '15 12:00 to 12:15)
Mid peak	51 (Jun 8 '15 09:30 to 09:45)
Off peak	45 (Jun 9 '15 06:30 to 06:45)
Total	17,058

Maximum demand is 58 kW

Your daily average electricity usage (kWh)

116-5761 Tear here

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Usage comparison

	May '13	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15
Total kWh used	24,187	27,798	26,841	31,091	25,763	21,568		19,542	14,304	15,114	19,716	20,830	18,109	17,058
Number of days	30	30	29	32	30	29		30	31	32	29	30	31	30
Avg. average kWh use/day	806	926	926	971	858	743		650	461	472	679	694	584	568

Details of your new charges
Your rate: TOU-GS-2-B
Billing period: May 18 '15 to Jun 17 '15 (30 days Winter/Summer Season)

Delivery charges

Facilities rel demand	58 kW x \$13.20000	\$765.60	Your Delivery charges include: • \$186.32 transmission charges • \$833.95 distribution charges • \$4.77 nuclear decommissioning charges • \$184.40 public purpose programs charge • \$155.41 new system generation charge • -\$25.24 competition transition charge • \$28.74 franchise fees
Energy-Winter	3,350 kWh x \$0.02346	\$78.59	
Mid peak	3,983 kWh x \$0.02346	\$93.44	
Off peak			
Customer charge		\$198.79	

Generation charges

DWR			Your Generation charges include: • -\$25.24 competition transition charge • \$28.74 franchise fees
DWR energy credit	17,058 kWh x -\$0.00172	-\$29.34	
SCE			

Subtotal of your new charges \$3,171.61

LIUT exempt \$4.95

State tax 17,058 kWh x \$0.00029 \$4.95

Your new charges \$3,176.56

Additional information:
• Service voltage: 208 volts

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Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 1 of 6

For billing and service inquiries call 1-800-990-7788.
Mon - Fri 7 a.m. to 7 p.m. and Saturday 9 a.m. to 5 p.m.
For emergency services call 24 hrs a day, 7 days a week

Date bill prepared: Jul 18 '15

Customer account 2-28-627-1069
Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001
Rotating outage Group N001

Your account summary

Amount of your last bill	\$3,176.56
Payment we received on Jul 02 '15 - thank you	-\$3,176.56
Balance forward	\$0.00
Your new charges	\$4,690.93
Total amount you owe by Aug 6 '15	\$4,690.93

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JUL 23 2015
BY: [Signature]

Compare the electricity you are using
For meter 259000-025058 from Jun 17 '15 to Jul 17 '15
Total electricity you used this month in kWh **22,982**
Your next billing cycle will end on or about Aug 17 '15.

Electricity (kWh)	Demand (kW)
Summer Season	
On peak	64 (Jun 25 '15 16:15 to 16:30)
Mid peak	64 (Jun 29 '15 18:30 to 18:45)
Off peak	51 (Jun 20 '15 11:30 to 11:45)
Total	22,982

Maximum demand is 64 kW

Date 7/23/15
Acct # 6920-1
Amt 4,690.93
Approval [Signature]

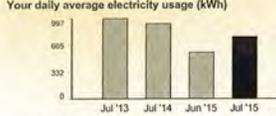
Please return the payment stub below with your payment and make your check payable to Southern California Edison.
If you want to pay in person, call 1-800-747-8908 for locations, or you can pay online at www.sce.com.

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Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 3 of 6

Your daily average electricity usage (kWh)



* No data available

Usage comparison

	Jul '13	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15
Total kWh used	31,902	26,811	31,091	25,763	21,568	19,542	14,304	15,114	19,718	20,820	18,109	17,058	22,862	
Number of days	32	30	32	30	30	30	31	32	29	30	31	30	30	
Avg. average kWh per day	996	894	971	858	719	649	461	472	678	694	584	568	762	

Details of your new charges
Your rate: TOU-GS-2-B
Billing period: Jun 17 '15 to Jul 17 '15 (30 days)

Category	Usage	Rate	Amount
Delivery charges			
Facilities rel demand	64 kW x \$13.20000		\$844.80
Energy-Summer			
On peak	6,651 kWh x \$0.02391		\$159.03
Mid peak	7,141 kWh x \$0.02391		\$170.74
Off peak	9,190 kWh x \$0.02391		\$219.73
DWR bond charge	22,982 kWh x \$0.00526		\$120.89
Customer charge			\$198.79
Generation charges			
DWR			
DWR energy credit	22,982 kWh x -\$0.00172		-\$39.53
SCE			
Demand-Summer			
On peak	64 kW x \$18.11000		\$1,159.04
Mid peak	64 kW x \$5.30000		\$339.20
Energy-Summer			
On peak	6,651 kWh x \$0.10805		\$718.04
Mid peak	7,141 kWh x \$0.06143		\$438.07
Off peak	9,190 kWh x \$0.03855		\$354.27
Subtotal of your new charges			\$4,684.22
UUT exempt			
State tax	22,982 kWh x \$0.00029		\$6.65
Your new charges			\$4,690.93

Your Delivery charges include:

- \$209.66 transmission charges
- \$973.68 distribution charges
- \$6.43 nuclear decommissioning charges
- \$248.44 public purpose programs charge
- \$209.36 new system generation charge

Your Generation charges include:

- \$34.01 competition transition charge

Your overall energy charges include:

- \$42.45 franchise fees

Additional information:

- Service voltage: 208 volts

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Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 1 of 6

For billing and service inquiries call 1-800-990-7788.
For emergency services call 24 hrs a day, 7 days a week

Date bill prepared: Aug 21 '15

Customer account 2-28-627-1069
Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001
Rotating outage Group N001

Your account summary

Amount of your last bill	\$4,690.93
Payment we received on Jul 30 '15 - thank you	-\$4,690.93
Balance forward	\$0.00
Your new charges	\$5,029.05
Total amount you owe by Sep 9 '15	\$5,029.05

Compare the electricity you are using
For meter 259000-025058 from Jul 17 '15 to Aug 17 '15
Total electricity you used this month in kWh **24,810**
Your next billing cycle will end on or about Sep 16 '15.

Electricity (kWh)	Demand (kW)
Summer Season	
On peak	70 (Jul 28 '15 14:30 to 14:45)
Mid peak	64 (Jul 20 '15 18:15 to 18:30)
Off peak	10,430 (Aug 15 '15 12:45 to 13:00)
Total	24,810

Maximum demand is 70 kW

Date 8/27/15
Acct # 6920-1
Amt 5,029.05
Approval [Signature]

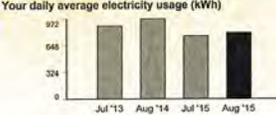
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Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 3 of 6

Your daily average electricity usage (kWh)



* No data available

Usage comparison

	Jul '13	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15	Aug '15
Total kWh used	20,727	31,091	25,763	21,568	19,542	14,304	15,114	19,718	20,820	18,109	17,058	22,862	24,810	
Number of days	30	32	30	29	30	31	32	29	30	31	30	30	31	
Avg. average kWh per day	691	971	858	739	649	461	472	678	694	584	568	762	799	

Details of your new charges
Your rate: TOU-GS-2-B
Billing period: Jul 17 '15 to Aug 17 '15 (31 days)

Category	Usage	Rate	Amount
Delivery charges			
Facilities rel demand	70 kW x \$13.20000		\$924.00
Energy-Summer			
On peak	6,986 kWh x \$0.02391		\$167.04
Mid peak	7,394 kWh x \$0.02391		\$176.79
Off peak	10,430 kWh x \$0.02391		\$249.28
DWR bond charge	24,810 kWh x \$0.00526		\$130.50
Customer charge			\$198.79
Generation charges			
DWR			
DWR energy credit	24,810 kWh x -\$0.00172		-\$42.67
SCE			
Demand-Summer			
On peak	70 kW x \$18.11000		\$1,267.70
Mid peak	64 kW x \$5.30000		\$339.20
Energy-Summer			
On peak	6,986 kWh x \$0.10805		\$754.84
Mid peak	7,394 kWh x \$0.06143		\$454.21
Off peak	10,430 kWh x \$0.03855		\$402.08
Subtotal of your new charges			\$5,021.86
UUT exempt			
State tax	24,810 kWh x \$0.00029		\$7.19
Your new charges			\$5,029.05

Your Delivery charges include:

- \$229.28 transmission charges
- \$979.60 distribution charges
- \$6.95 nuclear decommissioning charges
- \$268.20 public purpose programs charge
- \$206.02 new system generation charge

Your Generation charges include:

- \$36.72 competition transition charge

Your overall energy charges include:

- \$45.51 franchise fees

Additional information:

- Service voltage: 208 volts

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Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 1 of 6

Customer account: 2-28-627-1069
Service account: 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001
Rotating outage: Group N001

For billing and service inquiries call 1-800-990-7788.
For emergency services call 24 hrs a day, 7 days a week
Date bill prepared: Sep 17 '15

Your account summary

Amount of your last bill	\$5,029.05
Payment we received on Sep 04 '15 - thank you	-\$5,029.05
Balance forward	\$0.00
Your new charges	\$5,041.65
Total amount you owe by Oct 6 '15	\$5,041.65

Compare the electricity you are using
For meter 259000-025058 from Aug 17 '15 to Sep 16 '15
Total electricity you used this month in kWh: 24,317
Your next billing cycle will end on or about Oct 16 '15.
Maximum demand is 71 kW

Electricity (kWh)	Demand (kW)
Summer Season	
On peak	6,869 70 (Aug 28 '15 13:00 to 13:15)
Mid peak	7,530 71 (Sep 8 '15 11:15 to 11:30)
Off peak	9,918 64 (Aug 29 '15 10:45 to 11:00)
Total	24,317

Date: 10/1/15
Acct #: 6920-1
Amt: 5041.65
Approval: [Signature]

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SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 3 of 6

Your daily average electricity usage (kWh)

* No data available

Usage comparison

	Aug '13	Sep '14	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15	Aug '15	Sep '15
Total kWh used	31,427	25,793	21,588	19,342	14,304	15,114	19,718	20,830	18,109	17,058	22,882	24,810	24,317	
Number of days	30	30	29	32	31	32	29	30	31	30	31	30	31	30
Avg. average kWh used/day	1,047	858	743	604	461	472	679	684	584	550	738	800	784	777

Details of your new charges
Your rate: TOU-GS-2-B
Billing period: Aug 17 '15 to Sep 16 '15 (30 days)

Category	Amount	Rate
Delivery charges		
Facilities rel demand	71 kW x \$13.20000	\$937.20
Energy-Summer		
On peak	6,869 kWh x \$0.02391	\$164.24
Mid peak	7,530 kWh x \$0.02391	\$180.04
Off peak	9,918 kWh x \$0.02391	\$237.14
DWR bond charge	24,317 kWh x \$0.00626	\$152.91
Customer charge		\$198.79
Generation charges		
DWR energy credit	24,317 kWh x -\$0.00172	-\$41.83
Demand-Summer		
On peak	70 kW x \$18.11000	\$1,267.70
Mid peak	71 kW x \$5.30000	\$376.30
Energy-Summer		
On peak	6,869 kWh x \$0.10805	\$742.20
Mid peak	7,530 kWh x \$0.06143	\$462.57
Off peak	9,918 kWh x \$0.03855	\$382.34
Subtotal of your new charges		\$5,034.60
UUT exempt		
State tax	24,317 kWh x \$0.00029	\$7.05
Your new charges		\$5,041.65

Your Delivery charges include:
• \$232.47 transmission charges
• \$987.90 distribution charges
• \$6.91 nuclear decommissioning charges
• \$262.87 public purpose programs charge
• \$221.53 new system generation charge

Your Generation charges include:
• \$35.99 competition transition charge

Your overall energy charges include:
• \$45.62 franchise fees

Additional information:
• Service voltage: 208 volts

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SOUTHERN CALIFORNIA EDISON
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P.O. Box 300
Rosemead, CA
91772-0001
www.sce.com

Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 1 of 8

Customer account: 2-28-627-1069
Service account: 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001
Rotating outage: Group N001

For billing and service inquiries call 1-800-990-7788.
For emergency services call 24 hrs a day, 7 days a week
Date bill prepared: Oct 17 '15

Your account summary

Amount of your last bill	\$5,041.65
Payment we received on Oct 06 '15 - thank you	-\$5,041.64
Past due amount	\$0.01
Your new charges	\$4,081.53
Total amount you owe	\$4,081.54

Compare the electricity you are using
For meter 259000-025058 from Sep 16 '15 to Oct 16 '15
Total electricity you used this month in kWh: 24,464
Your next billing cycle will end on or about Nov 17 '15.
Maximum demand is 70 kW

Electricity (kWh)	Demand (kW)
Summer Season	
On peak	3,398 70 (Sep 25 '15 15:00 to 15:15)
Mid peak	3,749 64 (Sep 28 '15 18:00 to 18:15)
Off peak	5,026 70 (Sep 26 '15 15:15 to 15:30)
Winter Season	
Mid peak	6,555 64 (Oct 9 '15 15:45 to 16:00)
Off peak	5,736 64 (Oct 10 '15 15:00 to 15:15)
Total	24,464

Date: 10/21/15
Acct #: 6920-1
Amt: 4,081.54
Approval: [Signature]

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SOUTHERN CALIFORNIA EDISON
An EDISON INTERNATIONAL Company

Your electricity bill
ALTADENA LIBRARY DISTRICT / Page 3 of 8

Your daily average electricity usage (kWh)

* No data available

Usage comparison

	Oct '13	Oct '14	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15	Aug '15	Sep '15	Oct '15
Total kWh used	25,669	21,588	19,342	14,304	15,114	19,718	20,830	18,109	17,058	22,882	24,810	24,317	24,464	
Number of days	32	29	32	31	32	29	30	31	30	31	30	31	30	30
Avg. average kWh used/day	802	743	604	461	472	679	684	584	568	738	800	784	789	815

Details of your new charges
Your rate: TOU-GS-2-B
Billing period: Sep 16 '15 to Oct 16 '15 (30 days Summer/Winter Season)

Category	Amount	Rate
Delivery charges		
Facilities rel demand	70 kW x \$13.20000	\$924.00
Energy-Summer		
On peak	3,398 kWh x \$0.02391	\$81.25
Mid peak	3,749 kWh x \$0.02391	\$89.64
Off peak	5,026 kWh x \$0.02391	\$120.17
Energy-Winter		
Mid peak	6,555 kWh x \$0.02394	\$156.93
Off peak	5,736 kWh x \$0.02394	\$137.32
DWR bond charge	24,464 kWh x \$0.00626	\$152.68
Customer charge		\$198.79
Generation charges		
DWR energy credit	24,464 kWh x -\$0.00172	-\$42.08
Demand-Summer		
On peak	70 kW x \$18.11000 x 15/30 days	\$633.85
Mid peak	64 kW x \$5.30000 x 15/30 days	\$169.60
Energy-Summer		
On peak	3,398 kWh x \$0.10805	\$367.15
Mid peak	3,749 kWh x \$0.06143	\$230.30
Off peak	5,026 kWh x \$0.03855	\$193.75
Energy-Winter		
Mid peak	6,555 kWh x \$0.06623	\$434.14
Off peak	5,736 kWh x \$0.04375	\$250.95
Subtotal of your new charges		\$4,074.44
UUT exempt		
State tax	24,464 kWh x \$0.00029	\$7.09
Your new charges		\$4,081.53

Your Delivery charges include:
• \$229.25 transmission charges
• \$978.43 distribution charges
• \$6.95 nuclear decommissioning charges
• \$264.82 public purpose programs charge
• \$222.87 new system generation charge

Your Generation charges include:
• \$36.21 competition transition charge

Your overall energy charges include:
• \$36.92 franchise fees

Additional information:
• Service voltage: 208 volts

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Your electricity bill

ALTAGENA LIBRARY DISTRICT / Page 1 of 6

For billing and service inquiries call 1-800-990-7788.
For emergency services call 24 hrs a day, 7 days a week
Date bill prepared: Nov 18 '15

Customer account 2-28-627-1069
Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001
Rotating outage Group N001

Your account summary

Amount of your last bill	\$4,081.54
Payment we received on Oct 30 '15 - thank you	-\$4,081.54
Balance forward	\$0.00
Your new charges	\$2,632.57
Total amount you owe by Dec 7 '15	\$2,632.57

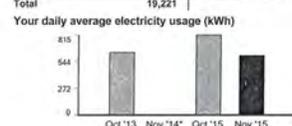
Compare the electricity you are using

For meter 259000-025058 from Oct 16 '15 to Nov 17 '15
Total electricity you used this month in kWh 19,221
Your next billing cycle will end on or about Dec 17 '15.

Electricity (kWh)	Demand (kW)
Winter Season	
Mid peak 9,533	64 (Oct 20 '15 16:30 to 18:45)
Off peak 9,688	58 (Oct 24 '15 14:45 to 15:00)
Total	19,221

Maximum demand is 64 kW

Your daily average electricity usage (kWh)



Date 11/30/15
Acct # 6920-1
Amt 2,632.57
Approval [Signature]

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If you want to pay in person, call 1-800-747-8908 for locations, or you can pay online at www.sce.com.

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Your electricity bill

ALTAGENA LIBRARY DISTRICT / Page 3 of 6

Usage comparison

	Oct '13	Nov '14	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15	Aug '15	Sep '15	Oct '15	Nov '15
Total kWh used	19,813	18,542	14,204	15,114	18,718	25,820	19,109	17,059	22,082	24,810	24,317	24,484	18,221	
Number of days	31	31	31	31	29	31	31	31	31	31	31	31	31	
Avg. average kWh use/day	639	601	458	487	645	801	616	550	712	797	784	790	588	

Details of your new charges

Your rate: TOU-GS-2-B
Billing period: Oct 16 '15 to Nov 17 '15 (32 days)

Category	Amount	Rate
Delivery charges		
Facilities rel demand	64 kW x \$13.20000	\$844.80
Energy-Winter		
Mid peak	9,533 kWh x \$0.02394	\$228.22
Off peak	9,688 kWh x \$0.02394	\$231.93
DWR bond charge	19,221 kWh x \$0.00526	\$101.10
Customer charge		\$198.79
Generation charges		
DWR	19,221 kWh x -\$0.00172	-\$33.06
DWR energy credit		
SCE Energy-Winter		
Mid peak	9,533 kWh x \$0.06623	\$631.37
Off peak	9,688 kWh x \$0.04375	\$423.85
Subtotal of your new charges		\$2,627.00
LUJT exempt		
State tax	19,221 kWh x \$0.00029	\$5.57
Your new charges		\$2,632.57

Your Delivery charges include:

- \$209.29 transmission charges
- \$901.01 distribution charges
- \$5.39 nuclear decommissioning charges
- \$208.96 public purpose programs charge
- \$175.11 new system generation charge

Your Generation charges include:

- \$28.45 competition transition charge

Your overall energy charges include:

- \$23.81 franchise fees

Additional information:

- Service voltage: 208 volts

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Your electricity bill

ALTAGENA LIBRARY DISTRICT / Page 1 of 6

For billing and service inquiries call 1-800-990-7788.
For emergency services call 24 hrs a day, 7 days a week
Date bill prepared: Dec 18 '15

Customer account 2-28-627-1069
Service account 3-002-4527-28
600 E MARIPOSA ST
ALTADENA, CA 91001
Rotating outage Group N001

Your account summary

Amount of your last bill	\$2,632.57
Payment we received on Dec 02 '15 - thank you	-\$2,632.57
Balance forward	\$0.00
Your new charges	\$2,125.68
Total amount you owe by Jan 6 '16	\$2,125.68

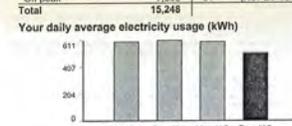
Compare the electricity you are using

For meter 259000-025058 from Nov 17 '15 to Dec 17 '15
Total electricity you used this month in kWh 15,248
Your next billing cycle will end on or about Jan 19 '16.

Electricity (kWh)	Demand (kW)
Winter Season	
Mid peak 7,945	51 (Nov 19 '15 13:30 to 13:45)
Off peak 7,303	51 (Nov 21 '15 13:00 to 13:15)
Total	15,248

Maximum demand is 51 kW

Your daily average electricity usage (kWh)



Date 12/23/15
Acct # 6920-1
Amt 2,125.68
Approval [Signature]

Please return the payment stub below with your payment and make your check payable to Southern California Edison.
If you want to pay in person, call 1-800-747-8908 for locations, or you can pay online at www.sce.com.

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Your electricity bill

ALTAGENA LIBRARY DISTRICT / Page 3 of 6

Usage comparison

	Dec '13	Dec '14	Jan '15	Feb '15	Mar '15	Apr '15	May '15	Jun '15	Jul '15	Aug '15	Sep '15	Oct '15	Nov '15	Dec '15
Total kWh used	18,184	18,542	14,204	15,114	18,718	25,820	18,109	17,059	22,082	24,810	24,317	24,484	18,221	15,248
Number of days	31	31	31	31	29	31	31	31	31	31	31	31	31	31
Avg. average kWh use/day	586	601	458	487	645	801	584	550	712	797	784	790	588	492

Details of your new charges

Your rate: TOU-GS-2-B
Billing period: Nov 17 '15 to Dec 17 '15 (30 days)

Category	Amount	Rate
Delivery charges		
Facilities rel demand	51 kW x \$13.20000	\$673.20
Energy-Winter		
Mid peak	2,182 kWh x \$0.02394	\$52.24
Off peak	2,058 kWh x \$0.02394	\$49.27
Mid peak	5,763 kWh x \$0.02384	\$137.39
Off peak	5,245 kWh x \$0.02384	\$125.04
DWR bond charge	15,248 kWh x \$0.00526	\$80.20
Customer charge		\$198.79
Generation charges		
DWR	15,248 kWh x -\$0.00172	-\$26.23
DWR energy credit		
SCE Energy-Winter		
Mid peak	2,182 kWh x \$0.06623	\$144.51
Off peak	2,058 kWh x \$0.04375	\$90.04
Mid peak	5,763 kWh x \$0.06467	\$372.69
Off peak	5,245 kWh x \$0.04273	\$224.12
Subtotal of your new charges		\$2,121.26
LUJT exempt		
State tax	15,248 kWh x \$0.00029	\$4.42
Your new charges		\$2,125.68

Your Delivery charges include:

- \$166.76 transmission charges
- \$758.13 distribution charges
- \$4.27 nuclear decommissioning charges
- \$164.19 public purpose programs charge
- \$138.91 new system generation charge

Your Generation charges include:

- \$22.87 competition transition charge

Your overall energy charges include:

- \$19.22 franchise fees

Additional information:

- Service voltage: 208 volts

Things you should know

You may notice a change in your billing statement...
Effective November 24, 2015, your rates changed. Your change may vary based on usage. For details about these changes, please visit www.sce.com/bill_change

Attachment 6: Altadena Energy & Solar proposal

March 9, 2016

Mrs. Mindy Kittay
Altadena Public Library
600 E Mariposa Ave.
Altadena, CA 91001

RE: Solar and energy storage proposal for Altadena Public Library - v1

Dear Mindy,

Thank you for your interest in a solar proposal from Altadena Energy & Solar for the Altadena Public Library. It has taken a while to put it together, however, I think our diligence will allow us to build a better performing system that will offset more library energy use, and save more dollars from your operational funds. Here is our review of your building, and how we can fit into your plan.

Electricity use – Energy & Demand

The SCE historical energy use showed 269,395 kWh of energy use on a 12 month cycle, which is approximately 738 kWh per day on average. The annual cost is \$43,258. We are expecting this number to go down as energy efficiency measures are implemented; the lighting is upgraded inside the library, the attic is insulated, the windows are improved, and the HVAC is updated. Our goal of offsetting your energy usage should therefore not focus on 100% of your current use, but what we would estimate to remain after your efficiency oriented energy upgrades.

The SCE electricity bill is comprised of base charge, energy charge, and demand charge. The base charge is approximately \$250 per month. The demand charge ranges from 1/3 of the bill during the winter, up to over 50% of the bill in the late summer during high cooling demand during afternoon and evening hours. Our systems will work to decrease both the demand charges as well as the energy charges. At the current time, the library will continue to be in the GS-2 customer category, and will retain the customer charge.

'Demand charges' are rate at which you use electricity. They are important as they indicate how much your facility stresses the grid; a higher demand means that you use more grid resources to deliver electricity to your facility. When we review the library's demand charges during a typical day, it ranges from 20 KW overnight up to approximately 80KW during summertime afternoons. We believe the daily energy use cycle is driven primarily by HVAC usage. This number will come down partially through HVAC upgrades, and partially through our energy storage project.

Altadena Energy & Solar LLC

460 E Calaveras St. Altadena, CA 91001 | tel (818) 201-4206 | fax (818) 230-0623 | contact@altadenasolar.com | Manager: Hans W Rosenberger

www.altadenasolar.com

**Site Analysis**

The flat roofs of the library offer a large area for solar panels, however, there are many areas that are impacted by shade, primarily from roof features and neighboring trees. Through careful siting of the solar on the roof, and some judicious tree trimming, we believe a system size 'up to' 120KW is possible (circa 400 solar modules). The tree trimming aspect is important, and will determine the exact sizing of the system. A solar system sized between 80-120KW can be accomplished without unduly affecting the library's current trees. This system can still remove 50-75% of current electricity energy usage.

Demand Analysis and Control

A large portion of the electric bill for commercial accounts is based on the 'rate of energy use' and not how much energy is used. Similarly, usage in the summer is more expensive than winter, and afternoons are more expensive than night time electricity.

Solar will provide the energy to run the library, but because solar production happens earlier in the day than the demand peak, we need to use a storage system to smooth out the building's demand so that demand charge reduction also contributes to overall savings. The exact mix of battery and thermal storage would be worked out during the engineering phase of the project.

System deal structure

Although a traditional purchase is a typical approach to acquiring building systems, we are proposing a power purchase agreement (PPA) because it will provide included maintenance and will use tax benefits to realize a lower cost of ownership than the Library would achieve by owning the system. Altadena Library will contract with Altadena Energy to produce electricity and reduce demand using a solar electric system, and energy storage systems located at the library, and maintained by Altadena Energy & Solar. We build, own, and maintain the systems, and will be contracted to the library for the energy produced. This will provide the library with the best maintenance and best system at the lowest cost.

We can provide these benefits at a lower cost than the larger banks and PACE equity type of engineering and financing firms. We have a lower cost of doing business on small to medium sized projects, and can provide this benefit to the Altadena Library at a competitive rate, and without the added effort of fundraising to purchase the system. The system will be paid for monthly as an operating cost, and will be maintained by our crews.

A template for the deal structure and system is shown on the following page, and an economic summary of how the system would provide energy & cost savings is attached as an appendix.

Altadena Energy & Solar LLC

460 E Calaveras St. Altadena, CA 91001 | tel (818) 201-4206 | fax (818) 230-0623 | contact@altadenasolar.com | Manager: Hans W Rosenberger

www.altadenasolar.com



Altadena Public Library - Proposed solar & energy storage system - v1

Agreement type

- 20 year power purchase and energy services agreement between Altadena Energy & Solar LLC and Altadena Public Library for delivery of electricity and demand services
- All maintenance of system included over PPA contractual period
- No Lien or title encumbrance on Library property – system secured through solar and storage equipment itself
- Minimal 'good faith' deposit – (\$25,000) - system paid for with monthly billing of delivered electricity and demand
- \$0.1600 per kWh starting rate. 2.0% annual escalator; 100% renewable power delivered.
- Optional purchase of system in years 6-20 at fair market value. Extension of PPA or removal of system after PPA agreement time period
- System built in 1-2 phases over 2016-2017

System Description

- 60KW-120KW_{dc} solar array sizing (tier 1 modules on rooftop, and potentially a parking shade structure as well)
- Inverters and service equipment will be kept on the library roof for security
- up to 90KW of battery/thermal storage system to shift the library's energy use from late afternoons to nighttime and mornings. Capacity of storage will be matched so solar to provide needed savings from reduction in electrical demand

Outcomes

- Up to 170,000 kWh of solar energy delivered from system to library annually (66% of current usage)
- Electrical billing from SCE should drop from the current \$45,000 per year to approximately \$15,000 per year. Altadena Energy & Solar will operate the solar and storage system in order to reduce operating costs to the library to the maximum extent possible.
- The library has the option to purchase the system between years 7-20 at fair market value. If the library does not purchase the system, or renew the PPA at year 20, the system will be removed.
- The library will save approximately 300,000 lbs of CO₂ annually, or 3000 tons over the 20 year PPA term.

Altadena Energy & Solar LLC

460 E Calaveras St. Altadena, CA 91001 | tel (818) 201-4206 | fax (818) 230-0623 | contact@altadenasolar.com | Manager: Hans W Rosenberger

www.altadenasolar.com



We have good references for our work in the community. We've provided a 140KW solar system to Union Station Homeless Services that is reducing their electricity consumption by over 50% and are starting to address their energy storage needs. We also have an 80KW solar and storage system in development with Sequoyah School for construction later this summer.

We are including our technical and financial modeling of the system's performance for your review, and look forward to reviewing the proposal together. Thank you for your time and patience in the proposal period. The proposal is valid for 30 days and can be renewed for you when necessary.

Sincerely,



Hans Rosenberger, president
Altadena Energy & Solar

Altadena Energy & Solar LLC

460 E Colaveras St. Altadena, CA 91001 | tel (818) 201-4206 | fax (818) 230-0623 | contact@altadenasolar.com | Manager: Hans W Rosenberger
www.altadenasolar.com