

## **Appendix K**



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### Energy Memorandum and Calculation Worksheets



## MEMO

DATE: August 22, 2016  
TO: City of West Hollywood  
FROM: Frank LaRocca, PE  
RE: 8920 Sunset - Energy Requirements

This memo describes the energy requirements for the proposed project and the ability of the local energy purveyors to provide the required services.

**Electricity Requirements** – Electricity demand for the proposed project has been estimated by the project electrical engineer to be 3100 kVA with an estimated service of 4000 AMP @ 480 Volt. This information along with information on the use and square footages of the proposed building was provided to Southern California Edison (SCE) to obtain a will serve letter and determine the impacts to their system or the public right-of-way.

The response from the SCE included a will serve letter and an email stating that they can serve the proposed project with their existing infrastructure. The email also stated that the existing manhole may require to be upsized if the new project causes congestion within the manhole. See Appendix A for the SCE Will Serve Letter and email response from SCE. Since the proposed project can be served by SCE, the impact should be less than significant.

**Natural Gas Requirements** – A request for will serve including information on use and square footages of the proposed project as well as specific questions relating to the environmental impact of the project was sent to Southern California Gas (SCG) to determine if SCG has the capacity to serve the project and what the impact would be.

The response from SCG included a will serve letter stating that they have service in the area available for our project as well as responses to the environmental impact questions. The responses to the questions further suggest that SCG can serve the project, however the exact impacts to their system cannot be determined without specific loading requirements for the proposed building. See Appendix B for SCG Will Serve Letter and Response Letter. Since the proposed project can be served by SCG, the impact should be less than significant.

### Attachments:

Appendix A – SCE Will Serve Letter and Email Response  
Appendix B – SCG Will serve Letter and Response Letter

## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE

### Will Serve Letter Only



05/12/2016

KPFF

The Arts Club at 8920 Sunset Boulevard, West Hollywood

Your project is located in Southern California Edison (SCE) service territory. SCE will serve the above subject project's electrical requirements per the California Public Utilities Commission and Federal Energy Regulatory Commission tariffs.

SCE may need to conduct utility studies, where applicable, to assess whether additions or modifications to the existing electric infrastructure are required to serve this project. Where applicable, SCE has attached Appendix (B) which not only describes the study, and permitting, but includes a Project Information Sheet that will need to be completed by you and submitted to SCE if your project is at a point where SCE has to determine the required electrical utility work. This Will-Serve letter does not imply that either: (i) these studies have been completed, or (ii) that any required California Environmental Quality Act (CEQA) analysis of project-related electric utility impacts has been conducted.

I am the SCE Design Representative currently assigned to this project. SCE or Applicant will design and construct all required electrical infrastructure to serve this project provided you enter into the applicable contractual agreements with SCE identify scope of electrical utility work required, and supply the following information:

- Site plans as required
- Required contracts and agreements (fully executed)
- Applicable fees
- Local permits
- Required easement documents

Your project will be scheduled for construction once SCE has all the necessary information for your project and you have submitted or agreed to the applicable requirements as stated above, and paid any necessary fees.

If your project will not require SCE services, please notify us so that we can update our records.

SCE appreciates your business. If you have any questions, please feel free to call me at (310) 315-3297.

Sincerely,

Todd B. Wise  
SCE Design Representative

Enclosure: Appendix B, where applicable

## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE



05/12/2016

KPFF

### The Arts Club at 8920 Sunset Boulevard, West Hollywood

As your Southern California Edison (SCE) Design Representative for this project, I am committed to providing you with excellent customer service. The following information is intended to help explain SCE's planning and permitting process for the electric infrastructure needed to serve your Project.

Depending on the scope of work necessary to serve your project (electric facility installation, removal, relocation, rearrangement and/or replacement), it may be necessary for you to submit an Advanced Engineering Fee. This Fee will be applied to certain expenses associated with preliminary design and engineering work required to estimate the cost for SCE to perform the electric work associated with your project. Please note: Depending on factors such as resource constraints, construction or relocation of SCE facilities requirements, the need for environmental review, and so forth, delays in meeting your projected completion date may occur. To help minimize the potential for delays it is imperative that you provide all requested information as early as possible.

If the project results in the need for SCE to perform work on SCE electrical facilities that operate at between 50 and 200 kilovolts (kV), please be advised these facilities are subject to the California Public Utilities Commission's (CPUC's) General Order 131-D (GO 131-D) Permit to Construct (PTC) requirements. For the CPUC PTC review, the CPUC acts as the lead agency under the California Environmental Quality Act (CEQA). Depending on the scope of SCE's work, certain exemptions to the PTC requirements may be available. If no exemptions are available, the PTC application preparation and environmental approval process could take a minimum of 24 - 48 months.

If you anticipate that your project will require work to be performed on SCE electrical facilities operated at between 50 kV and 200 kV, please inform me at your earliest possible convenience for further assistance to determine the potential G.O.131-D permitting requirements and/or permitting exemption(s).

In order for SCE to determine the required electrical utility work necessary to support your project, and to determine any permitting requirements and costs associated with constructing these facilities, project plans and a completed Customer Project Information Sheet will need to be submitted.

If you have any additional questions, please feel free to call me at (310) 315-3297.

Sincerely,

Todd B. Wise  
SCE Design Representative

## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE

### Frank LaRocca

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**From:** Jereith Gemora <Jereith.Gemora@sce.com>  
**Sent:** Thursday, August 11, 2016 7:06 PM  
**To:** Mary Creel  
**Cc:** Frank LaRocca; Miriam Huston  
**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Mary/Frank,

I believe that Todd Wise had already provided a Will Serve letter for the project. In terms of the infrastructure upgrade, taking a preliminary look at the load information, you will most likely be required to install 3 new structures on the property to serve the 4000A panel - a 10'x12' transformer slab box, a 5'x10'-6"x7' PME slab box, and a 66"x72" capacitor pad. We would most likely tie in the primary feed from an existing manhole on Hilldale Ave, but if that structure is congested then it may be possible that you will be required to upgrade it to a larger structure.

Our facilities maps do not show any existing underground infrastructure within the easement area. It may be remaining from previous overhead facilities that may have been there in the past.

Thanks,  
Jereith Gemora  
Southern California Edison  
Santa Monica Service Center  
Planning Department  
(310) 386 - 8530

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**From:** Mary Creel [mailto:mcreel@kpff-la.com]  
**Sent:** Thursday, August 04, 2016 14:27  
**To:** Jereith Gemora <Jereith.Gemora@sce.com>  
**Cc:** Frank LaRocca <Frank.LaRocca@kpff.com>; Miriam Huston <miriam.huston@kpff.com>  
**Subject:** FW: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hello Jereith,

I left you a voicemail as well, but I just want to follow up with you to see what the status is on the "will serve" letter and easement situation. If you could look at the e-mail Frank sent you below and the attachments and let me know when we'll be receiving the letter, that would be great!

Thanks,



**Mary Creel**

☎ 310.665.2800  
6080 Center Drive, Suite 700  
Los Angeles, CA 90045  
[mary.creel@kpff.com](mailto:mary.creel@kpff.com)

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**From:** Frank LaRocca  
**Sent:** Thursday, July 21, 2016 3:21 PM

## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE

**To:** Jereith Gemora <[Jereith.Gemora@sce.com](mailto:Jereith.Gemora@sce.com)>  
**Cc:** Miriam Huston <[miriam.huston@kpff.com](mailto:miriam.huston@kpff.com)>; Mary Creel <[mcreel@kpff-la.com](mailto:mcreel@kpff-la.com)>  
**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hi Jereith,

See attached CIP, load schedule and siteplan. I filled out the CIP as best I could. Please let em know if you need anything else. Remember that we are looking to see if SCE can serve our project and if it will require any upgrades to SCE's infrastructure, not necessarily full design of the system. We are also looking to see if there is anything in the SCE easement within the property.

Thanks!

Frank



**Frank LaRocca, PE**

Associate

☎ 310.665.2800 📠 310.665.1504

[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)

6080 Center Drive, Suite 700  
Los Angeles, CA 90045

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**From:** Jereith Gemora [<mailto:Jereith.Gemora@sce.com>]  
**Sent:** Monday, July 18, 2016 2:49 PM  
**To:** Frank LaRocca  
**Cc:** Miriam Huston; Mary Creel  
**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hi Frank,

As per our conversation, please find attached Customer Information Package needed to initiate the project. Please fill it out and return it to me along with the requested documents. Let me know if you have any questions.

Thanks,  
Jereith Gemora  
Southern California Edison  
Santa Monica Service Center  
Planning Department  
(310) 386 - 8530

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**From:** Frank LaRocca [<mailto:Frank.LaRocca@kpff.com>]  
**Sent:** Thursday, July 14, 2016 14:26  
**To:** Todd Wise <[Todd.Wise@sce.com](mailto:Todd.Wise@sce.com)>  
**Cc:** Serhat ATAY <[Serhat.ATAY@sce.com](mailto:Serhat.ATAY@sce.com)>; Jereith Gemora <[Jereith.Gemora@sce.com](mailto:Jereith.Gemora@sce.com)>; Miriam Huston <[miriam.huston@kpff.com](mailto:miriam.huston@kpff.com)>; Mary Creel <[mcreel@kpff-la.com](mailto:mcreel@kpff-la.com)>  
**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hi Jereith,

Any update on the info requested below?

Also had a question about an easement running through our property. Records show that its an SCE easement however SCE as-builts do not show an utilities in this area. There is an existing building with 2 levels of below grade parking in the location of the easement. See attached for the survey and SCE as-builts.

Thanks,

Frank



**Frank LaRocca, PE**

Associate

☎ 310.665.2800 ☎ 310.665.1504

[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)

6080 Center Drive, Suite 700  
Los Angeles, CA 90045

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**From:** Frank LaRocca

**Sent:** Monday, July 11, 2016 2:50 PM

**To:** 'Todd Wise'

**Cc:** Serhat ATAY; Jereith Gemora; Miriam Huston; Mary Creel

**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hi Jereith,

I understand you will be taking over the West Hollywood area. We have additional info on the project and would like to know if this is sufficient to determine whether SCE's existing facilities can handle the requested loads. We already have a will serve letter, but are looking for more info as to whether or not our project demands would require upgrades to SCE's system outside of our property.

Per the electrical engineer, the estimated power demand for the project is approximately 3100 kVA with an estimated service of 4000 AMP @ 480 Volt. With this info, can SCE determine if its existing facilities in the area have the capacity to serve the project?

Frank



**Frank LaRocca, PE**

Associate

☎ 310.665.2800 ☎ 310.665.1504

[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)

6080 Center Drive, Suite 700  
Los Angeles, CA 90045

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**From:** Todd Wise [<mailto:Todd.Wise@sce.com>]

**Sent:** Friday, July 01, 2016 9:27 PM

**To:** Frank LaRocca

**Cc:** Serhat ATAY; Jereith Gemora

**Subject:** Re: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

It's probably too early to determine at this time.

I am moving to another work location and will no longer be working in West Hollywood. Future requests should go to the new area planner, Jereith Gemora.

Regards,

Todd B. Wise  
SCE Planner  
Santa Monica S/C

## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE

Sent from my iPhone

On Jun 30, 2016, at 3:38 PM, Frank LaRocca <[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)> wrote:

Thanks Todd. I spoke with our EIR Consultant and they need to know if the service would require upgrades to SCE's facilities. We know that a new transformer/etc will be required, but we need to speak to whether or no there will be upgrades in the public right-of-way.

Is it possible to know this at this point?

**Frank LaRocca, PE**

Associate

< 310.665.2800 D 310.665.1504

[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)

6080 Center Drive, Suite 700

Los Angeles, CA 90045

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**From:** Todd Wise [<mailto:Todd.Wise@sce.com>]

**Sent:** Tuesday, June 28, 2016 12:35 PM

**To:** Frank LaRocca

**Cc:** Serhat ATAY; Paula Lee

**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hello Frank,

If you look at the first paragraph of the Will Serve letter, Appendix A, it states the following:

"Your project is located in Southern California Edison (SCE) service territory. SCE will serve the above subject project's electrical requirements per the California Public Utilities Commission and Federal Energy Regulatory Commission tariffs."

This is the Will Serve letter that we provide. Is there more required than this from your client and EIR consultant?

Regards,

Todd B. Wise

Service Planner

Santa Monica S/C

Desk 310 315-3297

PAX 30297

Cell 805 588-2745

[todd.wise@sce.com](mailto:todd.wise@sce.com)

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**From:** Frank LaRocca [<mailto:Frank.LaRocca@kpff.com>]

**Sent:** Tuesday, June 28, 2016 10:01 AM

**To:** Todd Wise <[Todd.Wise@sce.com](mailto:Todd.Wise@sce.com)>



## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE

**Cc:** Serhat ATAY <[Serhat.ATAY@sce.com](mailto:Serhat.ATAY@sce.com)>; Paula Lee <[Paula.Lee@sce.com](mailto:Paula.Lee@sce.com)>

**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hi Todd,

The client and EIR consultant are requesting a letter that specifically says SCE can serve the proposed project. Is this something SCE can provide? If so, what is required to obtain this?

Thanks,

Frank

**Frank LaRocca, PE**

Associate

< 310.665.2800 D 310.665.1504

[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)

6080 Center Drive, Suite 700

Los Angeles, CA 90045

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**From:** Todd Wise [<mailto:Todd.Wise@sce.com>]

**Sent:** Thursday, May 12, 2016 2:13 PM

**To:** Frank LaRocca

**Cc:** Serhat ATAY; Paula Lee

**Subject:** RE: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hello Frank,

Please find attached the Will Serve letters from SCE, along with a customer project information sheet.

Let me know if you have any questions.

Sincerely,

Todd B. Wise

Service Planner

Santa Monica S/C

Desk 310 315-3297

PAX 30297

Cell 805 588-2745

[todd.wise@sce.com](mailto:todd.wise@sce.com)

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www.sce.com planning links:

*SCE Rules*

*SCE Rates*

*SCE Underground Structures*

*SCE Electrical Service Requirements*

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**From:** Paula Lee

**Sent:** Wednesday, May 11, 2016 10:46 AM

## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE

**To:** Frank LaRocca <[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)>  
**Cc:** Todd Wise <[Todd.Wise@sce.com](mailto:Todd.Wise@sce.com)>; Serhat ATAY <[Serhat.ATAY@sce.com](mailto:Serhat.ATAY@sce.com)>  
**Subject:** FW: (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request

Hello Frank,

I did receive the request, however I am no longer the planner for West Hollywood. I forwarded a copy of your request to Todd Wise. ([Todd.Wise@sce.com](mailto:Todd.Wise@sce.com)) If you unable to reach Todd you can contact Serhat Atay for assistance. ([Serhat.Atay@sce.com](mailto:Serhat.Atay@sce.com)) I have copied them on this note.

Thank you,

*Paula Lee*

SOUTHERN CALIFORNIA EDISON  
TDBU-DESIGN CONFORMANCE  
OFFICE: 909-421-6407/PAX: 11407  
CELL: 310-909-4199

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**From:** Frank LaRocca [<mailto:Frank.LaRocca@kpff.com>]  
**Sent:** Wednesday, May 11, 2016 10:30 AM  
**To:** Paula Lee <[Paula.Lee@sce.com](mailto:Paula.Lee@sce.com)>  
**Subject:** (External):FW: 8920 Sunset Blvd. - Power "will serve" letter request


Hi Paula,

Did you receive this request and if so, do you have an update?

Frank

**Frank LaRocca, PE**

Associate

< 310.665.2800 D 310.665.1504  
[Frank.LaRocca@kpff.com](mailto:Frank.LaRocca@kpff.com)  
6080 Center Drive, Suite 700  
Los Angeles, CA 90045

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**From:** Mary Creel  
**Sent:** Friday, April 08, 2016 9:53 AM  
**To:** [Paula.Lee@sce.com](mailto:Paula.Lee@sce.com)  
**Cc:** Frank LaRocca  
**Subject:** 8920 Sunset Blvd. - Power "will serve" letter request

Hello Paula,

We are the Civil Engineers working on a mixed use development located at 8920 Sunset Boulevard. Below is a description of the project:

APN: 4340-001-024

The project consists of the construction of a vertical campus including The Arts Club, retail, entertainment, restaurant, office space, and parking.

Could you please provide us with a "will serve" letter for power service?

## APPENDIX A - SCE WILL SERVE AND EMAIL RESPONSE

Please see the attached "will serve" letter request.

Thank you,

**Mary Creel**

<image001.gif> ☎ 310.665.2800  
6080 Center Drive, Suite 700  
Los Angeles, CA 90045  
[mary.creel@kpf.com](mailto:mary.creel@kpf.com)



May 18, 2016

KPFF Consulting Engineers  
6080 Center Drive, Suite 700  
Los Angeles, CA 90045

Attn: Frank LaRocca

RE: Will Serve Letter Request for – Job I.D. #43-2016-05-00001  
8920 W. Sunset Blvd., APN 4340-001-024

Dear Mr. LaRocca:

Thank you for inquiring about the availability of natural gas service for your project. We are pleased to inform you that Southern California Gas Company (SoCalGas) has facilities in the area where the above named project is being proposed. The service would be in accordance with SoCalGas' policies and extension rules on file with the California Public Utilities Commission (Commission) at the time contractual arrangements are made.

This letter should not be considered a contractual commitment to serve the proposed project, and is only provided for informational purposes only. The availability of natural gas service is based upon natural gas supply conditions and is subject to changes in law or regulation. As a public utility, SoCalGas is under the jurisdiction of the Commission and certain federal regulatory agencies, and gas service will be provided in accordance with the rules and regulations in effect at the time service is provided. Natural gas service is also subject to environmental regulations, which could affect the construction of a main or service line extension (for example, if hazardous wastes were encountered in the process of installing the line). Applicable regulations will be determined once a contract with SoCalGas is executed.

If you need assistance choosing the appropriate gas equipment for your project, or would like to discuss the most effective applications of energy efficiency techniques, please contact our area Service Center at 800-427-2200.

Thank you again for choosing clean, reliable, and safe natural gas, your best energy value.

Sincerely,

Zakee Singleton  
Planning Associate  
Compton Headquarters

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### Environmental Impact Report Response for Natural Gas Service

Reference: The Arts Club, West Hollywood, CA 90069 located at 8920 Sunset Blvd - Environmental Impact Report (EIR) received 7/18/2016.

The following are answers to questions asked on the referenced EIR. The answers are in the same order as the questions asked in the EIR.

1. There is a distribution main of 3" diameter on W Sunset Blvd and a 2" diameter main on Hilldale Ave, from which this project can be served.
2. At this time there are no known natural gas service problems or deficiencies in the project area (8/16/2016).
3. If problems/deficiencies became apparent, appropriate actions such as system improvements would need to be initiated to solve the problems.
4. We do not foresee any problems when "hooking-up" this project, but cannot guarantee anything until the actual request is submitted.
5. The Southern California Gas Company cannot determine this information until the total requested load is submitted for analysis.
6. In the event that we cannot provide service from the existing infrastructure, the Southern California Gas Company will conduct system analysis and determine the best method to provide gas to the customer.
7. This question cannot be answered until the total requested load for the project is received. If problems/deficiencies were to exist, appropriate actions such as system improvements may be initiated to solve problems.
8. Please perform a full equipment evaluation and load survey profile to determine the actual natural gas consumption that will be used. The CEQA Air Quality Handbook, 1993 was not created, nor is it maintained, by Southern California Gas Company and should not be used to predict the future gas consumption rates.

Note: These answers are only estimates to the proposed project as of August 14, 2016. Actual gas demand can only be determined when total customer equipment is known.

Completed by:  
Maya Menon  
Engineer II  
Southern California Gas Company

## Arts Club - Energy Calculations

### Summary of Energy Use During Construction

	Project
<b>Electricity</b>	
Water Consumption	747 kWh
<b>Total:</b>	<b>747 kWh</b>
<b>Gasoline</b>	
On Road	28,776 Gallons
Off Road	0
<b>Total:</b>	<b>28,776 Gallons</b>
<b>Diesel</b>	
On Road	40,951 Gallons
Off Road	46,449 Gallons
<b>Total:</b>	<b>87,400 Gallons</b>

### Summary of Energy Use During Operations

	Baseline	Project (without PDFs)	Project (with PDFs)	Percent Reduction	
<b>Electricity</b>					
Electricity (building)	408,501	2,106,957	1,630,412 kWh/year	-23%	1,221,911
Electricity (water)	32,171	229,480	183,584 kWh/year	-20%	151,413
<b>Electricity Total</b>	<b>440,672</b>	<b>2,336,437</b>	<b>1,813,996 kWh/year</b>	<b>-22%</b>	<b>1,373,324</b>
<b>Natural Gas</b>	<b>174,271</b>	<b>1,962,305</b>	<b>1,541,776 cu ft/year</b>	<b>-21%</b>	<b>1,367,505</b>
<b>Mobile</b>					
Gasoline	54,885	312,825	253,317 Gallons/year	-19%	198,432
Diesel	9,589	54,656	44,259 Gallons/year	-19%	34,670

**Calculation of Diesel Usage During Construction (Offroad Equipment):**

Phase Name	Off Road Equipment Type	Units	Hours	HP	Load Factor	Avg. Daily Factor	Number of Days	Diesel Fuel Usage
Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	32	454
Demolition	Rubber Tired Dozers	1	8	247	0.4	0.6	32	759
Demolition	Tractors/Loaders/Backhoes	2	8	97	0.37	0.6	32	551
Grading	Bore/Drill Rigs	1	8	221	0.5	0.6	65	1,724
Grading	Cranes	1	8	231	0.29	0.6	65	1,045
Grading	Excavators	1	8	158	0.38	0.6	65	937
Grading	Plate Compactors	1	8	8	0.43	0.6	65	54
Grading	Pumps	1	8	84	0.74	0.6	65	970
Foundation to	Cement and Mortar Mixers	1	8	9	0.56	0.6	110	133
Foundation to	Concrete/Industrial Saws	1	8	81	0.73	0.6	110	1,561
Foundation to	Cranes	1	8	231	0.29	0.6	110	1,769
Foundation to	Plate Compactors	1	8	8	0.43	0.6	110	91
Foundation to	Pumps	1	8	84	0.74	0.6	110	1,641
Foundation to	Welders	1	8	46	0.45	0.6	110	546
Building Const	Aerial Lifts	2	8	63	0.31	0.6	500	4,687
Building Const	Air Compressors	2	8	78	0.48	0.6	500	8,986
Building Const	Cranes	1	8	231	0.29	0.6	500	8,039
Building Const	Forklifts	2	7	89	0.2	0.6	500	3,738
Building Const	Tractors/Loaders/Backhoes	1	6	97	0.37	0.6	500	3,230
Building Const	Welders	2	8	46	0.45	0.6	500	4,968
Paving	Cement and Mortar Mixers	1	8	9	0.56	0.6	21	25
Paving	Paving Equipment	1	8	132	0.36	0.6	21	240
Paving	Skid Steer Loaders	1	8	65	0.37	0.6	21	121
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37	0.6	21	181
<b>Total Diesel Usage for Construction (Offroad Equipment):</b>								<b>46,448.6 gallons of diesel fuel</b>

gallons of diesel fuel per horsepower-hour= 0.05

Notes: Equipment assumptions are provide in the CalEEMod output files and fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

EMFAC2011 Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2017

Season: Annual

Vehicle Classification: EMFAC2011 Categories

Region	Veh_Class	Fuel	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)	Miles per Gallon
South Coast	LDA	GAS	Aggregate	5835352.66	198767641	36831738.7	8765.730578	0	22.7
South Coast	LDT1	GAS	Aggregate	684346.771	23328352.92	4155711.052	1188.493997	0	19.6
South Coast	LDT2	GAS	Aggregate	1923490.65	70021607.67	12110390.77	4186.317435	0	16.7
						<b>Construction Worker Trip (Composite LDA/LDT1/LDT2):</b>			<b>20.4</b>
South Coast	T7 tractor cnstruction	DSL	Aggregate	4070.25043	316257.0426	0	0	55.51389613	<b>5.7</b>

Notes: Consistent with CalEEMod, a construction worker trip is assumed to be a composite of 50% LDA , 25% for LDT1, and 25% for LDT2. Used EMFAC 2011 Categories for construction as EMFAC2011 has specific categories for vehicle class T7.



EMFAC Emission inventories by YEAR (for construction)									
Region	Year	Veh_Class	Fuel	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
2016									
South Coast	2016	LDA	GAS	Aggregate	5792945.81	197227585.3	36554821.9	8702.393248	0
South Coast	2016	LDT1	GAS	Aggregate	679603.7711	23162319.54	4131718.316	1180.89948	0
South Coast	2016	LDT2	GAS	Aggregate	1906231.485	69273763.33	12003785.52	4145.80356	0
South Coast	2016	T7 tractor cnstruction	DSL	Aggregate	3841.571738	295135.454	0	0	51.85201596
2017									
South Coast	2017	LDA	GAS	Aggregate	5835352.656	198767641	36831738.7	8765.730578	0
South Coast	2017	LDT1	GAS	Aggregate	684346.7714	23328352.92	4155711.052	1188.493997	0
South Coast	2017	LDT2	GAS	Aggregate	1923490.645	70021607.67	12110390.77	4186.317435	0
South Coast	2017	T7 tractor cnstruction	DSL	Aggregate	4070.250434	316257.0426	0	0	55.51389613
2018									
South Coast	2018	LDA	GAS	Aggregate	5875768.442	200195489.9	37093739.66	8824.495621	0
South Coast	2018	LDT1	GAS	Aggregate	688812.9118	23474880.58	4178427.192	1195.140883	0
South Coast	2018	LDT2	GAS	Aggregate	1941482.89	70793524.59	12222710.26	4228.717295	0
South Coast	2018	T7 tractor cnstruction	DSL	Aggregate	4134.944795	324016.2809	0	0	56.8242173
2019									
South Coast	2019	LDA	GAS	Aggregate	5919080.897	201726794.5	37369376.96	8872.432331	0
South Coast	2019	LDT1	GAS	Aggregate	693717.2286	23623176.31	4202494.757	1200.094998	0
South Coast	2019	LDT2	GAS	Aggregate	1960776.565	71580572.68	12342715.58	4265.262875	0
South Coast	2019	T7 tractor cnstruction	DSL	Aggregate	4217.99922	331838.0226	0	0	57.98147024
2020									
South Coast	2020	LDA	GAS	Aggregate	5962902.655	203195464.1	37640937.19	8935.015097	0
South Coast	2020	LDT1	GAS	Aggregate	698686.0887	23776980.12	4227851.699	1207.517018	0
South Coast	2020	LDT2	GAS	Aggregate	1980365.768	72336808.26	12463753.43	4307.469097	0
South Coast	2020	T7 tractor cnstruction	DSL	Aggregate	4309.833088	339722.2675	0	0	59.36589308

Calculation of Gasoline and Diesel Usage During Phase 1 Construction (Onroad Vehicles):

Phase Name	Daily Woker Trips	Daily Vendor Trips	Days	Total Worker Trips	Total Vendor Trips	Total Haul Trips	Trip Length (miles)			Total Length (miles)			Avg. Daily Factor (worker and vendor)	Gallons of Fuel	
							Worker	Vendor	Haul	Worker	Vendor	Haul		Gasoline	Diesel
Demolition	42	0	32	1344	0	825	14.7	6.9	40	19756.8	0	33000	0.6	580.3	5,792.6
Grading	50	0	65	3250	0	3429	14.7	6.9	40	47775	0	137160	0.6	1,403.3	24,076.3
Site Preparation	100	25	110	11000	2750	0	14.7	6.9	20	161700	18975	0	0.6	4,749.7	1,998.5
Building Construction	100	25	500	50000	12500	0	14.7	6.9	20	735000	86250	0	0.6	21,589.6	9,083.9
Architectural Coating	0	0	131	0	0	0	14.7	6.9	20	0	0	0	0.6	0.0	0.0
Paving	50	0	21	1050	0	0	14.7	6.9	20	15435	0	0	0.6	453.4	0.0
<b>Total:</b>													<b>28,776.4</b>	<b>40,951.2</b>	

Worker Miles per gallon= 20.43 gasoline  
 Vedor/Haul miles per gallon= 5.70 diesel

Notes: Consistent with CalEEMod worker vehicles are assumed to be gasoline and 50% LDA, 25%LDT1, and 25% LDT2. Vendor and haul trips are assumed to be 100% diesel Heavy Duty Trucks (T7)

**Water Usage for Control of Fugitive Dust during Construction:**

Phase	Days	Average Daily Acentage Distrubed	Gallons Per Year	Electricity (kWhr)
Demolition	32	0.00	0	0
Grading	65	0.38	73,613	716
Foundation to Street Level	110	0.00	0	0
Building Construction	500	0.00	0	0
Architectural Coating	131	0.00	0	0
Paving	21	0.05	3,171	31
<b>Total:</b>			<b>76,784</b>	<b>747</b>

Water application rate= 3020 gal/acre/day  
kWhr equivalent= 0.01 kWhr

Notes: 1) Gallons per year of water usage for dust control is calculated based on a minimum control efficiency of 66% (three times daily) with an application rate of 3,020 gal/acre/day (Air & Waste Management Association Air Pollution Engineering Manual (1992 Edition)) and average of 26 construction days per month.  
2) CalEEMod Default: Each gallon of delivered potable water in Southern California is associated with 0.009727 kWhr of electricity).

EMFAC2011 Emissions Inventory  
 Region Type: Air Basin  
 Region: South Coast  
 Calendar Year: 2020  
 Season: Annual  
 Vehicle Classification: EMFAC2007 Categories

Region	CalYr	Season	Veh_Class	Fuel	MdYr	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)			
South Coast	2020	Annual	LDA	GAS	Aggregated	Aggregated	5962902.65	203195464.1	37640937	8935.015097	0			
South Coast	2020	Annual	LDA	DSL	Aggregated	Aggregated	20499.0953	657371.4659	125683.25	0	21.18148712			
South Coast	2020	Annual	LDT1	GAS	Aggregated	Aggregated	698686.089	23776980.12	4227851.7	1207.517018	0			
South Coast	2020	Annual	LDT1	DSL	Aggregated	Aggregated	1013.07446	34846.3438	5836.7062	0	1.145385874			
South Coast	2020	Annual	LDT2	GAS	Aggregated	Aggregated	1980365.77	72336808.26	12463753	4307.469097	0			
South Coast	2020	Annual	LDT2	DSL	Aggregated	Aggregated	945.756391	34112.1222	5848.3677	0	1.108484107			
South Coast	2020	Annual	LHD1	GAS	Aggregated	Aggregated	302687.518	13021681.34	4509592.9	971.1156929	0			
South Coast	2020	Annual	LHD1	DSL	Aggregated	Aggregated	97218.3412	4040403.571	1222884.3	0	210.1159723			
South Coast	2020	Annual	LHD2	GAS	Aggregated	Aggregated	31498.5427	1360186.091	469281.34	101.6690386	0			
South Coast	2020	Annual	LHD2	DSL	Aggregated	Aggregated	32171.8309	1314224.484	404681.15	0	68.44997656			
South Coast	2020	Annual	MCY	GAS	Aggregated	Aggregated	238648.861	1755415.074	477250.01	44.20212924	0			
South Coast	2020	Annual	MDV	GAS	Aggregated	Aggregated	1649349.96	55656936.08	10194301	4224.440405	0			
South Coast	2020	Annual	MDV	DSL	Aggregated	Aggregated	1668.9761	56812.72825	10064.254	0	1.840924194			
South Coast	2020	Annual	MH	GAS	Aggregated	Aggregated	64997.8486	731934.2498	6502.3847	51.06973866	0			
South Coast	2020	Annual	MH	DSL	Aggregated	Aggregated	11405.2091	123378.2401	1140.5209	0	13.74368184			
South Coast	2020	Annual	OBUS	GAS	Aggregated	Aggregated	7257.98835	274476.3978	331459.72	21.88778844	0			
South Coast	2020	Annual	OBUS	DSL	Aggregated	Aggregated	6259.71366	502137.5086	0	0	73.15204402			
South Coast	2020	Annual	SBUS	GAS	Aggregated	Aggregated	1618.35976	58152.92569	6473.4391	5.324545744	0			
South Coast	2020	Annual	SBUS	DSL	Aggregated	Aggregated	4757.09687	172039.675	0	0	23.86169872			
South Coast	2020	Annual	T6	GAS	Aggregated	Aggregated	25025.9626	1200686.595	500719.45	90.69618593	0			
South Coast	2020	Annual	T6	DSL	Aggregated	Aggregated	88451.0743	5274431.967	0	0	587.7982468			
South Coast	2020	Annual	T7	GAS	Aggregated	Aggregated	1686.34316	230157.6992	33740.356	18.05321743	0			
South Coast	2020	Annual	T7	DSL	Aggregated	Aggregated	86280.4821	12834987.93	0	0	2295.958827			
South Coast	2020	Annual	UBUS	GAS	Aggregated	Aggregated	1890.48004	202978.48	7561.9198	18.50339127	0			
South Coast	2020	Annual	UBUS	DSL	Aggregated	Aggregated	7395.22771	792663.9494	29580.911	0	195.4660731			
											<b>MPG</b>	Gallons Per Mile		
							Totals	399,639,267.39			19,996.96	3,493.82	<b>17.0</b>	0.06
							Total (GAS)	373,801,857.41		0.94			<b>18.7</b>	0.05
							Total (DSL)	25,837,409.98		0.06			<b>7.4</b>	0.14

EMFAC Emission inventories by YEAR (for operation)

Region	CalYr	Season	Veh_Class	Fuel	MdYr	Speed (miles/hr)	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Gas (1000 gallons/day)	Fuel_DSL (1000 gallons/day)
2017											
South Coast	2017	Annual	LDA	GAS	Aggregated	Aggregated	5835352.656	198767641	36831738.7	8765.730578	0
South Coast	2017	Annual	LDA	DSL	Aggregated	Aggregated	20084.94855	649961.2531	120872.5669	0	21.09713809
South Coast	2017	Annual	LDT1	GAS	Aggregated	Aggregated	684346.7714	23328352.92	4155711.052	1188.493997	0
South Coast	2017	Annual	LDT1	DSL	Aggregated	Aggregated	993.358181	33213.21573	5493.221221	0	1.108790844
South Coast	2017	Annual	LDT2	GAS	Aggregated	Aggregated	1923490.645	70021607.67	12110390.77	4186.317435	0
South Coast	2017	Annual	LDT2	DSL	Aggregated	Aggregated	917.9859915	34257.69891	5580.756712	0	1.120751985
South Coast	2017	Annual	LHD1	GAS	Aggregated	Aggregated	289199.535	12514065.57	4308641.949	941.1753676	0
South Coast	2017	Annual	LHD1	DSL	Aggregated	Aggregated	91907.10598	3847269.055	1156075.738	0	200.4185275
South Coast	2017	Annual	LHD2	GAS	Aggregated	Aggregated	30332.11582	1311273.879	451903.2945	98.91005704	0
South Coast	2017	Annual	LHD2	DSL	Aggregated	Aggregated	30724.53904	1265178.558	386476.0568	0	66.04718207
South Coast	2017	Annual	MCY	GAS	Aggregated	Aggregated	229988.4941	1689828.061	459930.98	42.46762226	0
South Coast	2017	Annual	MDV	GAS	Aggregated	Aggregated	1596851.927	54048501.49	9927104.567	4109.926883	0
South Coast	2017	Annual	MDV	DSL	Aggregated	Aggregated	1619.70879	56504.36295	9674.568529	0	1.838680137
South Coast	2017	Annual	MH	GAS	Aggregated	Aggregated	62286.83896	699056.5418	6231.175263	49.33176222	0
South Coast	2017	Annual	MH	DSL	Aggregated	Aggregated	10896.94396	118671.1497	1089.694432	0	13.22500749
South Coast	2017	Annual	OBUS	GAS	Aggregated	Aggregated	7111.755219	277777.218	324781.5006	22.36623471	0
South Coast	2017	Annual	OBUS	DSL	Aggregated	Aggregated	6055.019993	476671.7452	0	0	70.1357162
South Coast	2017	Annual	SBUS	GAS	Aggregated	Aggregated	1557.846865	56000.3854	6231.387415	5.202431248	0
South Coast	2017	Annual	SBUS	DSL	Aggregated	Aggregated	4775.375744	174964.2385	0	0	24.30635322
South Coast	2017	Annual	T6	GAS	Aggregated	Aggregated	24170.94962	1158619.852	483612.3566	88.95071283	0
South Coast	2017	Annual	T6	DSL	Aggregated	Aggregated	86814.86409	5083395.45	0	0	570.2850952
South Coast	2017	Annual	T7	GAS	Aggregated	Aggregated	1645.03903	239641.8193	32913.93945	18.95554389	0
South Coast	2017	Annual	T7	DSL	Aggregated	Aggregated	81503.1858	11807475.88	0	0	2120.71226
South Coast	2017	Annual	UBUS	GAS	Aggregated	Aggregated	1834.326855	196979.7151	7337.307413	18.07485104	0
South Coast	2017	Annual	UBUS	DSL	Aggregated	Aggregated	7249.31005	776985.0278	28997.24127	0	195.8198192

2018										
South Coast	2018 Annual	LDA	GAS	Aggregated	Aggregated	5875768.442	200195489.9	37093739.66	8824.495621	0
South Coast	2018 Annual	LDA	DSL	Aggregated	Aggregated	20218.4465	654024.3306	122603.1713	0	21.16226092
South Coast	2018 Annual	LDT1	GAS	Aggregated	Aggregated	688812.9118	23474880.58	4178427.192	1195.140883	0
South Coast	2018 Annual	LDT1	DSL	Aggregated	Aggregated	999.577953	33722.07483	5601.995889	0	1.119646587
South Coast	2018 Annual	LDT2	GAS	Aggregated	Aggregated	1941482.89	70793524.59	12222710.26	4228.717295	0
South Coast	2018 Annual	LDT2	DSL	Aggregated	Aggregated	926.7308741	34590.09348	5706.788671	0	1.125640108
South Coast	2018 Annual	LHD1	GAS	Aggregated	Aggregated	293543.2366	12665546.72	4373356.522	951.757468	0
South Coast	2018 Annual	LHD1	DSL	Aggregated	Aggregated	93576.41256	3906243.148	1177073.501	0	203.3596241
South Coast	2018 Annual	LHD2	GAS	Aggregated	Aggregated	30703.62901	1326007.263	457438.3072	99.89817194	0
South Coast	2018 Annual	LHD2	DSL	Aggregated	Aggregated	31173.49467	1280800.454	392123.3262	0	66.79873834
South Coast	2018 Annual	MCY	GAS	Aggregated	Aggregated	232716.4757	1710658.736	465386.4167	43.01500591	0
South Coast	2018 Annual	MDV	GAS	Aggregated	Aggregated	1613678.767	54504079.36	10009110.27	4144.63348	0
South Coast	2018 Annual	MDV	DSL	Aggregated	Aggregated	1635.617765	56946.36258	9830.919461	0	1.848448661
South Coast	2018 Annual	MH	GAS	Aggregated	Aggregated	63147.14778	710069.4785	6317.240649	49.98632651	0
South Coast	2018 Annual	MH	DSL	Aggregated	Aggregated	11058.5583	120018.1458	1105.85586	0	13.38172153
South Coast	2018 Annual	OBUS	GAS	Aggregated	Aggregated	7158.584494	275817.3256	326920.1024	22.18620439	0
South Coast	2018 Annual	OBUS	DSL	Aggregated	Aggregated	6129.373871	485013.5007	0	0	71.17662633
South Coast	2018 Annual	SBUS	GAS	Aggregated	Aggregated	1577.049372	56686.00209	6308.197348	5.235168175	0
South Coast	2018 Annual	SBUS	DSL	Aggregated	Aggregated	4769.469343	174026.4181	0	0	24.15702684
South Coast	2018 Annual	T6	GAS	Aggregated	Aggregated	24453.08169	1175656.312	489257.2756	89.86788092	0
South Coast	2018 Annual	T6	DSL	Aggregated	Aggregated	87228.15572	5144220.578	0	0	576.3545618
South Coast	2018 Annual	T7	GAS	Aggregated	Aggregated	1657.366967	236244.4152	33160.59746	18.67516175	0
South Coast	2018 Annual	T7	DSL	Aggregated	Aggregated	82991.99766	12184064.92	0	0	2187.122351
South Coast	2018 Annual	UBUS	GAS	Aggregated	Aggregated	1852.402209	198917.5415	7409.608491	18.21782297	0
South Coast	2018 Annual	UBUS	DSL	Aggregated	Aggregated	7297.455697	782170.3619	29189.82383	0	195.0789439
2019										
South Coast	2019 Annual	LDA	GAS	Aggregated	Aggregated	5919080.897	201726794.5	37369376.96	8872.432331	0
South Coast	2019 Annual	LDA	DSL	Aggregated	Aggregated	20358.00296	657161.3275	124250.341	0	21.22055151
South Coast	2019 Annual	LDT1	GAS	Aggregated	Aggregated	693717.2286	23623176.31	4202494.757	1200.094998	0
South Coast	2019 Annual	LDT1	DSL	Aggregated	Aggregated	1006.284087	34477.52523	5732.034057	0	1.138354115
South Coast	2019 Annual	LDT2	GAS	Aggregated	Aggregated	1960776.565	71580572.68	12342715.58	4265.262875	0
South Coast	2019 Annual	LDT2	DSL	Aggregated	Aggregated	936.1694497	34235.46086	5778.319307	0	1.11380718
South Coast	2019 Annual	LHD1	GAS	Aggregated	Aggregated	298068.2456	12841775.97	4440772.75	958.5031947	0
South Coast	2019 Annual	LHD1	DSL	Aggregated	Aggregated	95374.92737	3971884.571	1199696.543	0	206.6551858
South Coast	2019 Annual	LHD2	GAS	Aggregated	Aggregated	31097.83692	1342551.252	463311.4087	100.4226809	0
South Coast	2019 Annual	LHD2	DSL	Aggregated	Aggregated	31667.65418	1297177.962	398339.2365	0	67.60480876
South Coast	2019 Annual	MCY	GAS	Aggregated	Aggregated	235655.0751	1732973.652	471263.0321	43.62008469	0
South Coast	2019 Annual	MDV	GAS	Aggregated	Aggregated	1631356.276	55057446.76	10099703.51	4179.679332	0
South Coast	2019 Annual	MDV	DSL	Aggregated	Aggregated	1652.158786	57048.36187	9962.735721	0	1.850255327
South Coast	2019 Annual	MH	GAS	Aggregated	Aggregated	64064.01307	721092.3204	6408.964033	50.39822302	0
South Coast	2019 Annual	MH	DSL	Aggregated	Aggregated	11230.19417	121591.3171	1123.019455	0	13.53856295
South Coast	2019 Annual	OBUS	GAS	Aggregated	Aggregated	7208.090363	274874.5137	329180.9538	21.94926184	0
South Coast	2019 Annual	OBUS	DSL	Aggregated	Aggregated	6197.512347	493501.237	0	0	72.06815995
South Coast	2019 Annual	SBUS	GAS	Aggregated	Aggregated	1597.522673	57413.09961	6390.09096	5.268394523	0
South Coast	2019 Annual	SBUS	DSL	Aggregated	Aggregated	4764.927635	173142.1179	0	0	24.02254814
South Coast	2019 Annual	T6	GAS	Aggregated	Aggregated	24737.45348	1188562.258	494946.9639	90.0300504	0
South Coast	2019 Annual	T6	DSL	Aggregated	Aggregated	87786.7306	5207499.59	0	0	581.1799736
South Coast	2019 Annual	T7	GAS	Aggregated	Aggregated	1671.755598	233432.5503	33448.48691	18.31152018	0
South Coast	2019 Annual	T7	DSL	Aggregated	Aggregated	84613.80894	12554426.8	0	0	2246.219196
South Coast	2019 Annual	UBUS	GAS	Aggregated	Aggregated	1871.286363	200931.7346	7485.1454	18.38053164	0
South Coast	2019 Annual	UBUS	DSL	Aggregated	Aggregated	7346.104821	787391.9987	29384.41867	0	195.1174575
2020										
South Coast	2020 Annual	LDA	GAS	Aggregated	Aggregated	5962902.655	203195464.1	37640937.19	8935.015097	0
South Coast	2020 Annual	LDA	DSL	Aggregated	Aggregated	20499.09535	657371.4659	125683.2458	0	21.18148712
South Coast	2020 Annual	LDT1	GAS	Aggregated	Aggregated	698686.0887	23776980.12	4227851.699	1207.517018	0
South Coast	2020 Annual	LDT1	DSL	Aggregated	Aggregated	1013.074458	34846.3438	5836.706215	0	1.145385874
South Coast	2020 Annual	LDT2	GAS	Aggregated	Aggregated	1980365.768	72336808.26	12463753.43	4307.469097	0
South Coast	2020 Annual	LDT2	DSL	Aggregated	Aggregated	945.7563911	34112.1222	5848.367695	0	1.108484107
South Coast	2020 Annual	LHD1	GAS	Aggregated	Aggregated	302687.518	13021681.34	4509592.851	971.1156929	0
South Coast	2020 Annual	LHD1	DSL	Aggregated	Aggregated	97218.34121	4040403.571	1222884.346	0	210.1159723
South Coast	2020 Annual	LHD2	GAS	Aggregated	Aggregated	31498.54275	1360186.091	469281.3373	101.6690386	0
South Coast	2020 Annual	LHD2	DSL	Aggregated	Aggregated	32171.83094	1314224.484	404681.1507	0	68.44997656
South Coast	2020 Annual	MCY	GAS	Aggregated	Aggregated	238648.8614	1755415.074	477250.0059	44.20212924	0
South Coast	2020 Annual	MDV	GAS	Aggregated	Aggregated	1649349.956	55656936.08	10194300.99	4224.440405	0
South Coast	2020 Annual	MDV	DSL	Aggregated	Aggregated	1668.976104	56812.72825	10064.25415	0	1.840924194
South Coast	2020 Annual	MH	GAS	Aggregated	Aggregated	64997.84856	731934.2498	6502.384735	51.06973866	0
South Coast	2020 Annual	MH	DSL	Aggregated	Aggregated	11405.20915	123378.2401	1140.520896	0	13.74368184
South Coast	2020 Annual	OBUS	GAS	Aggregated	Aggregated	7257.988354	274476.3978	331459.722	21.88778844	0
South Coast	2020 Annual	OBUS	DSL	Aggregated	Aggregated	6259.713659	502137.5086	0	0	73.15204402
South Coast	2020 Annual	SBUS	GAS	Aggregated	Aggregated	1618.359763	58152.92569	6473.43912	5.324545744	0
South Coast	2020 Annual	SBUS	DSL	Aggregated	Aggregated	4757.096872	172039.675	0	0	23.86169872
South Coast	2020 Annual	T6	GAS	Aggregated	Aggregated	25025.96255	1200686.595	500719.4495	90.69618593	0
South Coast	2020 Annual	T6	DSL	Aggregated	Aggregated	88451.07435	5274431.967	0	0	587.7982468
South Coast	2020 Annual	T7	GAS	Aggregated	Aggregated	1686.343163	230157.6992	33740.35566	18.05321743	0
South Coast	2020 Annual	T7	DSL	Aggregated	Aggregated	86280.48207	12834987.93	0	0	2295.958827
South Coast	2020 Annual	UBUS	GAS	Aggregated	Aggregated	1890.480037	202978.48	7561.919764	18.50339127	0
South Coast	2020 Annual	UBUS	DSL	Aggregated	Aggregated	7395.227709	792663.9494	29580.91072	0	195.4660731

2021										
South Coast	2021 Annual	LDA	GAS	Aggregated	Aggregated	5983324.082	203406334.5	37758497.7	8962.552247	0
South Coast	2021 Annual	LDA	DSL	Aggregated	Aggregated	20560.23313	653396.714	126492.476	0	21.01725148
South Coast	2021 Annual	LDT1	GAS	Aggregated	Aggregated	704120.7219	23959701.08	4257214.069	1219.237627	0
South Coast	2021 Annual	LDT1	DSL	Aggregated	Aggregated	1020.649142	34758.83358	5902.678211	0	1.140927592
South Coast	2021 Annual	LDT2	GAS	Aggregated	Aggregated	1998564.646	72973317.94	12574607.68	4353.005354	0
South Coast	2021 Annual	LDT2	DSL	Aggregated	Aggregated	954.6066242	33837.39521	5897.135388	0	1.098922828
South Coast	2021 Annual	LHD1	GAS	Aggregated	Aggregated	306736.8296	13172356.63	4569921.441	984.8986766	0
South Coast	2021 Annual	LHD1	DSL	Aggregated	Aggregated	98644.75865	4084184.142	1240826.916	0	212.3005495
South Coast	2021 Annual	LHD2	GAS	Aggregated	Aggregated	31916.63574	1380051.408	475510.3039	103.4048579	0
South Coast	2021 Annual	LHD2	DSL	Aggregated	Aggregated	32633.90884	1332547.957	410493.4861	0	69.35604242
South Coast	2021 Annual	MCY	GAS	Aggregated	Aggregated	238796.0461	1746303.041	477544.3157	44.04302905	0
South Coast	2021 Annual	MDV	GAS	Aggregated	Aggregated	1666722.553	56233095.91	10285785.78	4277.205001	0
South Coast	2021 Annual	MDV	DSL	Aggregated	Aggregated	1685.670696	57417.81391	10215.06382	0	1.856437771
South Coast	2021 Annual	MH	GAS	Aggregated	Aggregated	66982.0158	758744.7362	6700.880847	53.05277536	0
South Coast	2021 Annual	MH	DSL	Aggregated	Aggregated	11760.49394	128008.6648	1176.049409	0	14.2877918
South Coast	2021 Annual	OBUS	GAS	Aggregated	Aggregated	7310.315318	274984.626	333849.4021	21.94764195	0
South Coast	2021 Annual	OBUS	DSL	Aggregated	Aggregated	6316.408204	510924.915	0	0	74.24454754
South Coast	2021 Annual	SBUS	GAS	Aggregated	Aggregated	1639.463886	58906.75244	6557.855339	5.38281272	0
South Coast	2021 Annual	SBUS	DSL	Aggregated	Aggregated	4756.299456	171589.1691	0	0	23.78263689
South Coast	2021 Annual	T6	GAS	Aggregated	Aggregated	25351.76926	1213525.712	507238.1987	91.68377716	0
South Coast	2021 Annual	T6	DSL	Aggregated	Aggregated	88850.15221	5323590.354	0	0	592.7846956
South Coast	2021 Annual	T7	GAS	Aggregated	Aggregated	1715.483409	230951.3207	34323.39379	18.14702494	0
South Coast	2021 Annual	T7	DSL	Aggregated	Aggregated	87795.94699	13172387.8	0	0	2357.794852
South Coast	2021 Annual	UBUS	GAS	Aggregated	Aggregated	1912.833476	205370.7536	7651.333894	18.70519393	0
South Coast	2021 Annual	UBUS	DSL	Aggregated	Aggregated	7466.92761	800350.4525	29867.7091	0	196.6841245
2022										
South Coast	2022 Annual	LDA	GAS	Aggregated	Aggregated	6003986.271	203834624.8	37881273.8	8979.411325	0
South Coast	2022 Annual	LDA	DSL	Aggregated	Aggregated	20622.06713	649368.2394	127166.1971	0	20.85582752
South Coast	2022 Annual	LDT1	GAS	Aggregated	Aggregated	709614.2349	24148511.38	4288047.373	1228.456545	0
South Coast	2022 Annual	LDT1	DSL	Aggregated	Aggregated	1028.302445	34560.08884	5951.424084	0	1.133515574
South Coast	2022 Annual	LDT2	GAS	Aggregated	Aggregated	2016981.836	73608549.11	12686637.83	4389.113693	0
South Coast	2022 Annual	LDT2	DSL	Aggregated	Aggregated	963.5654104	33483.13064	5931.449389	0	1.086849083
South Coast	2022 Annual	LHD1	GAS	Aggregated	Aggregated	310844.3349	13343229.49	4631117.289	997.1949015	0
South Coast	2022 Annual	LHD1	DSL	Aggregated	Aggregated	100093.7971	4131147.145	1259054.063	0	214.6594683
South Coast	2022 Annual	LHD2	GAS	Aggregated	Aggregated	32340.58094	1398344.345	481826.4596	104.7360727	0
South Coast	2022 Annual	LHD2	DSL	Aggregated	Aggregated	33103.02662	1351476.331	416394.4155	0	70.29453498
South Coast	2022 Annual	MCY	GAS	Aggregated	Aggregated	238964.2021	1739170.208	477880.6011	43.8836917	0
South Coast	2022 Annual	MDV	GAS	Aggregated	Aggregated	1684327.208	56830183.05	10380104.35	4321.684926	0
South Coast	2022 Annual	MDV	DSL	Aggregated	Aggregated	1702.576007	58019.44574	10360.46126	0	1.871473798
South Coast	2022 Annual	MH	GAS	Aggregated	Aggregated	69028.85719	785143.0299	6905.646844	54.8442708	0
South Coast	2022 Annual	MH	DSL	Aggregated	Aggregated	12127.25397	132612.6833	1212.725419	0	14.81239463
South Coast	2022 Annual	OBUS	GAS	Aggregated	Aggregated	7363.340257	276236.5072	336270.9383	22.01661524	0
South Coast	2022 Annual	OBUS	DSL	Aggregated	Aggregated	6373.169651	519866.1011	0	0	75.36151746
South Coast	2022 Annual	SBUS	GAS	Aggregated	Aggregated	1660.897956	59672.34662	6643.591677	5.441562884	0
South Coast	2022 Annual	SBUS	DSL	Aggregated	Aggregated	4758.427774	170710.1667	0	0	23.66575478
South Coast	2022 Annual	T6	GAS	Aggregated	Aggregated	25681.97797	1227000.819	513845.0295	92.54559383	0
South Coast	2022 Annual	T6	DSL	Aggregated	Aggregated	89267.54277	5376141.722	0	0	597.9394541
South Coast	2022 Annual	T7	GAS	Aggregated	Aggregated	1745.315438	231605.8895	34920.27332	18.17487658	0
South Coast	2022 Annual	T7	DSL	Aggregated	Aggregated	89153.53404	13501381.84	0	0	2416.821803
South Coast	2022 Annual	UBUS	GAS	Aggregated	Aggregated	1935.503023	207796.6854	7742.012188	18.91540815	0
South Coast	2022 Annual	UBUS	DSL	Aggregated	Aggregated	7539.389122	808118.6601	30157.55558	0	198.2184055
2023										
South Coast	2023 Annual	LDA	GAS	Aggregated	Aggregated	6024892.361	204411014.4	38008859.74	9002.036428	0
South Coast	2023 Annual	LDA	DSL	Aggregated	Aggregated	20684.60914	646320.1766	127773.8366	0	20.73006586
South Coast	2023 Annual	LDT1	GAS	Aggregated	Aggregated	715167.4213	24337964.92	4319749.962	1237.610761	0
South Coast	2023 Annual	LDT1	DSL	Aggregated	Aggregated	1036.035548	34796.70649	6023.876415	0	1.138434427
South Coast	2023 Annual	LDT2	GAS	Aggregated	Aggregated	2035620.685	74239198.67	12799681.59	4425.023333	0
South Coast	2023 Annual	LDT2	DSL	Aggregated	Aggregated	972.6344587	33603.68082	5990.502324	0	1.088989354
South Coast	2023 Annual	LHD1	GAS	Aggregated	Aggregated	315010.9376	13517948.46	4693193.321	1009.835922	0
South Coast	2023 Annual	LHD1	DSL	Aggregated	Aggregated	101565.8457	4188125.922	1277570.495	0	217.5304908
South Coast	2023 Annual	LHD2	GAS	Aggregated	Aggregated	32770.46488	1419347.806	488231.0611	106.2709311	0
South Coast	2023 Annual	LHD2	DSL	Aggregated	Aggregated	33579.29637	1372552.393	422385.2794	0	71.35215871
South Coast	2023 Annual	MCY	GAS	Aggregated	Aggregated	239153.1822	1734033.754	478258.5204	43.76882045	0
South Coast	2023 Annual	MDV	GAS	Aggregated	Aggregated	1702167.983	57409939.72	10474808.6	4364.996216	0
South Coast	2023 Annual	MDV	DSL	Aggregated	Aggregated	1719.695187	59054.83179	10537.79162	0	1.90043029
South Coast	2023 Annual	MH	GAS	Aggregated	Aggregated	71140.42999	811525.4315	7116.889016	56.64261157	0
South Coast	2023 Annual	MH	DSL	Aggregated	Aggregated	12505.87205	137103.2736	1250.587255	0	15.32432397
South Coast	2023 Annual	OBUS	GAS	Aggregated	Aggregated	7417.068826	277728.9582	338724.6361	22.10989366	0
South Coast	2023 Annual	OBUS	DSL	Aggregated	Aggregated	6443.990244	528963.7578	0	0	76.50862765
South Coast	2023 Annual	SBUS	GAS	Aggregated	Aggregated	1682.667739	60449.88185	6730.670672	5.477044084	0
South Coast	2023 Annual	SBUS	DSL	Aggregated	Aggregated	4769.864906	170017.1666	0	0	23.57660606
South Coast	2023 Annual	T6	GAS	Aggregated	Aggregated	26016.6531	1241594.749	520541.1803	93.51361996	0
South Coast	2023 Annual	T6	DSL	Aggregated	Aggregated	89765.58738	5433341.595	0	0	603.1229424
South Coast	2023 Annual	T7	GAS	Aggregated	Aggregated	1775.859492	232631.6212	35531.39703	18.24136056	0
South Coast	2023 Annual	T7	DSL	Aggregated	Aggregated	90510.65503	13827379.84	0	0	2458.554022
South Coast	2023 Annual	UBUS	GAS	Aggregated	Aggregated	1958.493815	210256.8243	7833.975549	19.12637837	0
South Coast	2023 Annual	UBUS	DSL	Aggregated	Aggregated	7612.622418	815969.7767	30450.48903	0	199.7501056

2024										
South Coast	2024 Annual	LDA	GAS	Aggregated	Aggregated	6047838.238	205180457.1	38152875.45	9081.79546	0
South Coast	2024 Annual	LDA	DSL	Aggregated	Aggregated	20753.91101	645479.2953	128418.1174	0	20.68003278
South Coast	2024 Annual	LDT1	GAS	Aggregated	Aggregated	721465.3671	24572663.48	4356928.725	1255.799325	0
South Coast	2024 Annual	LDT1	DSL	Aggregated	Aggregated	1044.801365	35325.43116	6118.755587	0	1.151448919
South Coast	2024 Annual	LDT2	GAS	Aggregated	Aggregated	2054813.986	74892077.02	12916143.21	4486.21291	0
South Coast	2024 Annual	LDT2	DSL	Aggregated	Aggregated	981.9502563	33912.83607	6062.804398	0	1.096166507
South Coast	2024 Annual	LHD1	GAS	Aggregated	Aggregated	319112.7409	13692283.58	4754304.053	1031.956764	0
South Coast	2024 Annual	LHD1	DSL	Aggregated	Aggregated	102933.1075	4241263.66	1294768.989	0	220.2081488
South Coast	2024 Annual	LHD2	GAS	Aggregated	Aggregated	33204.51463	1439248.604	494697.7525	108.7400601	0
South Coast	2024 Annual	LHD2	DSL	Aggregated	Aggregated	34031.75635	1390277.197	428076.6688	0	72.24049074
South Coast	2024 Annual	MCY	GAS	Aggregated	Aggregated	239510.2538	1732357.174	478972.6138	43.72806069	0
South Coast	2024 Annual	MDV	GAS	Aggregated	Aggregated	1720734.199	58002703.04	10572672.92	4432.212602	0
South Coast	2024 Annual	MDV	DSL	Aggregated	Aggregated	1737.613588	59914.91183	10698.30221	0	1.923999287
South Coast	2024 Annual	MH	GAS	Aggregated	Aggregated	73188.19987	836065.6997	7321.747443	58.83062548	0
South Coast	2024 Annual	MH	DSL	Aggregated	Aggregated	12871.59129	141311.9208	1287.159153	0	15.853821558
South Coast	2024 Annual	OBUS	GAS	Aggregated	Aggregated	7457.545444	278860.7329	340573.1221	22.32908306	0
South Coast	2024 Annual	OBUS	DSL	Aggregated	Aggregated	6518.78601	538220.6236	0	0	77.98998155
South Coast	2024 Annual	SBUS	GAS	Aggregated	Aggregated	1703.23619	61185.99517	6812.944514	5.52995754	0
South Coast	2024 Annual	SBUS	DSL	Aggregated	Aggregated	4775.561369	169371.1107	0	0	23.48988825
South Coast	2024 Annual	T6	GAS	Aggregated	Aggregated	26353.95344	1256614.595	527289.8787	95.24435145	0
South Coast	2024 Annual	T6	DSL	Aggregated	Aggregated	90458.88264	5497771.961	0	0	611.9051505
South Coast	2024 Annual	T7	GAS	Aggregated	Aggregated	1801.533546	233422.7305	36045.08383	18.45610548	0
South Coast	2024 Annual	T7	DSL	Aggregated	Aggregated	91869.33275	14146702.72	0	0	2520.987951
South Coast	2024 Annual	UBUS	GAS	Aggregated	Aggregated	1979.123657	212477.2607	7916.494568	19.31509867	0
South Coast	2024 Annual	UBUS	DSL	Aggregated	Aggregated	7676.08277	822794.7858	30704.33092	0	201.0309179
2025										
South Coast	2025 Annual	LDA	GAS	Aggregated	Aggregated	6071060.684	205902409.4	38292310.38	9111.109818	0
South Coast	2025 Annual	LDA	DSL	Aggregated	Aggregated	20824.01743	645425.8768	128989.9195	0	20.65758718
South Coast	2025 Annual	LDT1	GAS	Aggregated	Aggregated	727841.4187	24800256.37	4394580.033	1266.913117	0
South Coast	2025 Annual	LDT1	DSL	Aggregated	Aggregated	1053.671344	36078.4157	6234.044252	0	1.171563938
South Coast	2025 Annual	LDT2	GAS	Aggregated	Aggregated	2074233.282	75543800.58	13032475.38	4523.847088	0
South Coast	2025 Annual	LDT2	DSL	Aggregated	Aggregated	991.3779331	34127.5637	6127.875631	0	1.101277945
South Coast	2025 Annual	LHD1	GAS	Aggregated	Aggregated	323270.5821	13864618.41	4816249.853	1044.719264	0
South Coast	2025 Annual	LHD1	DSL	Aggregated	Aggregated	104319.7618	4299963.974	1312211.259	0	223.1849953
South Coast	2025 Annual	LHD2	GAS	Aggregated	Aggregated	33644.57974	1460581.241	501254.0841	110.3347382	0
South Coast	2025 Annual	LHD2	DSL	Aggregated	Aggregated	34490.58919	1419749.324	433848.2121	0	73.74246796
South Coast	2025 Annual	MCY	GAS	Aggregated	Aggregated	239885.1128	1731655.111	479722.2407	43.71614475	0
South Coast	2025 Annual	MDV	GAS	Aggregated	Aggregated	1739544.198	58559254.91	10668746.73	4474.113627	0
South Coast	2025 Annual	MDV	DSL	Aggregated	Aggregated	1755.7551	60649.8279	10849.88439	0	1.945288903
South Coast	2025 Annual	MH	GAS	Aggregated	Aggregated	75295.75151	860676.901	7532.587066	60.53312102	0
South Coast	2025 Annual	MH	DSL	Aggregated	Aggregated	13248.16263	145717.0342	1324.816305	0	16.3589763
South Coast	2025 Annual	OBUS	GAS	Aggregated	Aggregated	7498.394755	280278.822	342438.6481	22.41915013	0
South Coast	2025 Annual	OBUS	DSL	Aggregated	Aggregated	6601.409728	547639.4845	0	0	79.35093715
South Coast	2025 Annual	SBUS	GAS	Aggregated	Aggregated	1724.081211	61931.96529	6896.324657	5.591068406	0
South Coast	2025 Annual	SBUS	DSL	Aggregated	Aggregated	4776.290589	168600.404	0	0	23.40373204
South Coast	2025 Annual	T6	GAS	Aggregated	Aggregated	26695.76086	1270280.635	534128.7959	96.19718166	0
South Coast	2025 Annual	T6	DSL	Aggregated	Aggregated	91293.98975	5560998.022	0	0	618.8923217
South Coast	2025 Annual	T7	GAS	Aggregated	Aggregated	1827.705537	235586.7155	36568.73013	18.6067846	0
South Coast	2025 Annual	T7	DSL	Aggregated	Aggregated	93287.80541	14465115.58	0	0	2577.463819
South Coast	2025 Annual	UBUS	GAS	Aggregated	Aggregated	2000.013016	214725.7263	8000.052069	19.45142627	0
South Coast	2025 Annual	UBUS	DSL	Aggregated	Aggregated	7740.136429	829683.7616	30960.54636	0	200.6921606



**Arts Club Baseline**  
**Los Angeles-South Coast County, Annual**

**Land Use Details**

<i>Land Uses</i>	<i>Size</i>	<i>Metric</i>	<i>Lot Acreage</i>	<i>Floor Surface Area</i>	<i>Population</i>
General Office Building	5.00	1000sqft	0.11	5,000.00	0
Enclosed Parking With Elevator	89.00	Space	0.80	35,600.00	0
Parking Lot	17.00	Space	0.15	6,800.00	0
Health Club	5.25	1000sqft	0.12	5,250.00	0
Strip Mall	9.25	1000sqft	0.21	9,250.00	0

**Trip Summary Information**

<i>Land Uses</i>	<i>Average Daily Trip Rate</i>			<i>Unmitigated</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
General Office Building	37.00	40.20	34.10	119,332
Enclosed Parking With Elevator	0.00	0.00	0.00	0
Parking Lot	0.00	0.00	0.00	0
Health Club	147.00	159.71	135.40	314,736
Strip Mall	347.99	378.14	320.51	662,804
<b>Total</b>	<b>531.99</b>	<b>578.05</b>	<b>490.01</b>	<b>1,096,872</b>

**Unmitigated Gasoline and Diesel Usage**

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	18.7	7.4
<i>% Fleet Mix</i>	93.5%	6.5%
<b>Total (Gallons):</b>	<b>54,885</b>	<b>9,589</b>

**Energy by Land Use - Natural Gas**

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/mo</i>
General Office Building	62,200	59,238
Enclosed Parking With Elevator	0	0
Parking Lot	0	0
Health Club	103,950	99,000
Strip Mall	16,835	16,033
<b>Total</b>	<b>182,985</b>	<b>174,271</b>

**Energy by Land Use - Electricity**

<i>Land Uses</i>	<i>kWH/yr</i>
General Office Building	76,200
Enclosed Parking With Elevator	112,852
Parking Lot	5,984
Health Club	65,835
Strip Mall	147,630
<b>Total</b>	<b>408,501</b>

**Water Detail (Unmitigated)**

<i>Land Uses</i>	<i>Indoor Use</i>	<i>Outdoor Use</i>	<i>Electricity Use</i>
	<i>(Mgal)</i>	<i>(Mgal)</i>	<i>(kWh/yr)</i>
General Office Building	0.89	0.54	15,172
Enclosed Parking With Elevator	0.00	0.00	0
Parking Lot	0.00	0.00	0
Health Club	0.31	0.19	5,301
Strip Mall	0.69	0.42	11,698
<b>Total</b>	<b>1.88</b>	<b>1.15</b>	<b>32,171</b>

Notes: Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

**Arts Club Project (without PDFs)**

**Land Use Details**

<i>Land Uses</i>	<i>Size</i>	<i>Metric</i>	<i>Lot Acreage</i>	<i>Floor Surface Area</i>	<i>Population</i>
General Office Building	46.01	1000sqft	0.00	46,009.00	0
Enclosed Parking with Elevator	92.28	1000sqft	0.00	92,282.00	0
Health Club	74.06	1000sqft	0.46	74,058.00	0
Strip Mall	11.93	1000sqft	0.00	11,933.00	0

**Trip Summary Information**

<i>Land Uses</i>	<i>Average Daily Trip Rate</i>			<i>Unmitigated</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
General Office Building	506.57	109.04	45.09	1,236,573
Enclosed Parking with Elevator	0.00	0.00	0.00	0
Health Club	2,078.86	1,317.53	1,687.83	4,094,119
Strip Mall	528.74	501.54	243.73	921,116
<b>Total</b>	<b>3,114.17</b>	<b>1,928.11</b>	<b>1,976.65</b>	<b>6,251,808</b>

**Unmitigated Gasoline and Diesel Usage**

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	18.7	7.4
<i>% Fleet Mix</i>	93.5%	6.5%
<b>Total (Gallons):</b>	<b>312,825</b>	<b>54,656</b>

**Energy by Land Use - Natural Gas (Unmitigated)**

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/mo</i>
General Office Building	572,352	545,097
Enclosed Parking with Elevator	0	0
Health Club	1,466,350	1,396,524
Strip Mall	21,718	20,684
<b>Total</b>	<b>2,060,420</b>	<b>1,962,305</b>

**Energy by Land Use - Electricity (Unmitigated)**

<i>Land Uses</i>	<i>kWH/yr</i>
General Office Building	701,192
Enclosed Parking with Elevator	286,650
Health Club	928,712
Strip Mall	190,403
<b>Total</b>	<b>2,106,957</b>

**Water Detail (Unmitigated)**

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
General Office Building	8.18	5.01	139,613
Enclosed Parking with Elevator	0.00	0.00	0
Health Club	4.38	2.68	74,781
Strip Mall	0.88	0.54	15,087
<b>Total</b>	<b>13.44</b>	<b>8.24</b>	<b>229,480</b>

Notes: Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).

**Arts Club Project (with PDFs)**  
**Los Angeles-South Coast County, Annual**

**Land Use Details**

<i>Land Uses</i>	<i>Size</i>	<i>Metric</i>	<i>Lot Acreage</i>	<i>Floor Surface Area</i>	<i>Population</i>
General Office Building	46.01	1000sqft	0	46009	0
Enclosed Parking with Elevator	92.28	1000sqft	0	92282	0
Health Club	74.06	1000sqft	0.46	74058	0
Strip Mall	11.93	1000sqft	0	11933	0

**Trip Summary Information**

<i>Land Uses</i>	<i>Average Daily Trip Rate</i>			<i>Mitigated</i>
	<i>Weekday</i>	<i>Saturday</i>	<i>Sunday</i>	
General Office Building	431.11	92.94	38.19	1,052,358
Enclosed Parking with Elevator	0.00	0.00	0.00	0
Health Club	1,838.17	1,164.96	1,492.31	3,620,059
Strip Mall	223.93	212.47	103.19	390,113
<b>Total</b>	<b>2,493.21</b>	<b>1,470.37</b>	<b>1,633.69</b>	<b>5,062,530</b>

**Mitigated Gasoline and Diesel Usage**

	<i>Gasoline</i>	<i>Diesel</i>
<i>Miles/Gallon</i>	18.7	7.4
<i>% Fleet Mix</i>	93.5%	6.5%
<b>Total (Gallons):</b>	<b>253,317</b>	<b>44,259</b>

**Energy by Land Use - Natural Gas (Mitigated)**

<i>Land Uses</i>	<i>kBTU/yr</i>	<i>cu ft/mo</i>
General Office Building	411,766	392,158
Enclosed Parking with Elevator	0	0
Health Club	1,192,630	1,135,838
Strip Mall	14,469	13,780
<b>Total</b>	<b>1,618,865</b>	<b>1,541,776</b>

**Energy by Land Use - Electricity (Mitigated)**

<i>Land Uses</i>	<i>kWH/yr</i>
General Office Building	525,572
Enclosed Parking with Elevator	223,714
Health Club	744,599
Strip Mall	136,527
<b>Total</b>	<b>1,630,412</b>

**Water Detail (Unmitigated)**

<i>Land Uses</i>	<i>Indoor Use (Mgal)</i>	<i>Outdoor Use (Mgal)</i>	<i>Electricity Use (kWh/yr)</i>
General Office Building	6.54	4.01	111,690
Enclosed Parking with Elevator	0.00	0.00	0
Health Club	3.50	2.15	59,825
Strip Mall	0.71	0.43	12,070
<b>Total</b>	<b>10.75</b>	<b>6.59</b>	<b>183,584</b>

Notes: Indoor water results in 0.0111 kWhr of electricity usage per gallon from delivery, treatment, and distribution of water within Southern California (CalEEMod). Outdoor water results in 0.009727 kWhr of electricity usage per gallon from delivery and distribution of water within Southern California (CalEEMod).