

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE



May 5, 2020

Advice Letter 5753-E and 5753-E-A

Erik Jacobson
Director, Regulatory Relations
Pacific Gas and Electric Company
77 Beale Street, Mail Code B10C
P.O. Box 770000
San Francisco, CA 94177

**SUBJECT: Joint Submittal: Proposed Survey to Measure Impact of Assembly Bill 1082
Transportation Electrification Pilot.**

Dear Mr. Jacobson:

Advice Letter 5753-E and 5753-E-A is approved as of March 6, 2020.

Sincerely,

A handwritten signature in cursive script that reads "Edward Randolph".

Edward Randolph
Deputy Executive Director for Energy and Climate Policy/
Director, Energy Division

February 5, 2020

ADVICE 4158-E

(Southern California Edison Company U 338-E)

Advice 5753-E

(Pacific Gas and Electric Company ID U 39 E)

Advice 3504-E

(San Diego Gas and Electric Company ID U 902 E)

Advice 136-E

(Liberty Utilities ID U 933-E)

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA
ENERGY DIVISION

SUBJECT: Proposed Survey to Measure Impact of Assembly Bill 1082
Transportation Electrification Pilot

PURPOSE

In compliance with Decision (D.)19-11-017 Ordering Paragraph (OP) 31 of the California Public Utilities Commission (Commission or CPUC), Southern California Edison Company (SCE), on behalf of itself, Pacific Gas and Electric Company (PG&E), San Diego Gas & Electric Company (SDG&E), and Liberty Utilities (Liberty) (jointly, the Utilities), hereby submits for Commission approval a survey (Survey) to measure electric vehicle (EV) adoption at participating sites for the approved Assembly Bill (AB) 1082 pilot programs.

BACKGROUND

On November 7, 2019, the Commission adopted D.19-11-017 approving the transportation electrification pilots for schools and parks pursuant to AB 1082 and 1083. The approved pilots will provide charging infrastructure at city and county parks in SDG&E's service territory, state parks and beaches, school facilities, and educational institutions. The Commission directed the Utilities to submit a Tier 2 advice letter within 90 days of the issuance of D.19-11-017 proposing a survey for each AB 1082 (school or educational institution) participating site to measure the programs' impact on

accelerating EV adoption.¹ To ensure consistency between utility surveys, the Commission requested that the Utilities collaborate and design one survey to be utilized by all four Utilities.

DISCUSSION

The Survey was created with the goal of determining the pilot's success in accelerating EV adoption with school faculty, parents, and students. The questions were structured to inform three knowledge objectives: 1) understand whether the installation of EV charging at the school/educational facility has an impact on their decision to purchase or lease an EV, 2) determine the length of their daily commute, and 3) how often they used the charging infrastructure at the school site.

The Survey consists of four main sections:

1. Profile questions that address objective 2 - relationship to school, school arrival and departure time, length of commute, and ownership of EV.
2. Attitudinal and behavioral questions based on EV ownership (tailored to EV and non-EV owners) that address objectives 1 and 3 – frequency of driving EV, location of charging EV, etc.
3. Electric Bus – awareness, interest in, and frequency of ridership.
4. Demographics – ethnic background, age group, etc.

As part of the process, the Utilities consulted their respective internal market research teams to create a survey that is effective and unbiased. The Utilities also considered the length of the survey in order to maximize the survey completion rate.

ATTACHMENT

This advice letter contains one attachment. Attachment A contains the list of survey questions.

TIER DESIGNATION

Pursuant to D.19-11-017, OP 31, this advice letter is submitted with a Tier 2 designation.

¹ D. 19-11-07 directs the Utilities to develop a survey specifically for schools and educational institutions.

EFFECTIVE DATE

This advice letter will become effective on March 6, 2020, 30 days after this advice letter is submitted.

NOTICE

Anyone wishing to protest this advice letter may do so by letter via U.S. Mail, facsimile, or electronically, any of which must be received no later than 20 days after the date of this submission. Protests should be submitted to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, California 94102
E-mail: EDTariffUnit@cpuc.ca.gov

Copies should also be mailed to the attention of the Director, Energy Division, Room 4004 (same address above).

In addition, protests and all other correspondence regarding this advice letter should also be sent by letter and transmitted via facsimile or electronically to the attention of:

Gary A. Stern, Ph.D.
Managing Director, State Regulatory Operations
Southern California Edison Company
8631 Rush Street
Rosemead, California 91770
Telephone (626) 302-9645
Facsimile: (626) 302-6396
E-mail: AdviceTariffManager@sce.com

Laura Genao
Managing Director, State Regulatory Affairs
c/o Karyn Gansecki
Southern California Edison Company
601 Van Ness Avenue, Suite 2030
San Francisco, California 94102
Facsimile: (415) 929-5544
[E-mail: Karyn.Gansecki@sce.com](mailto:Karyn.Gansecki@sce.com)

Erik Jacobson
Director, Regulatory Relations
Pacific Gas and Electric Company
c/o Megan Lawson
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Facsimile: (415) 973-3582
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Aurora Carrillo
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Dan Marsh
Liberty Utilities
Manager, Rates and Regulatory Affairs
933 Eloise Avenue
South Lake Tahoe, CA 96150
[E-mail: Dan.Marsh@libertyutilities.com](mailto:Dan.Marsh@libertyutilities.com)

There are no restrictions on who may submit a protest, but the protest shall set forth specifically the grounds upon which it is based and must be received by the deadline shown above.

In accordance with General Rule 4 of GO 96-B, SCE is serving copies of this advice letter submission to the interested parties shown on the attached GO 96-B and A.18-07-020 et al service lists. Address change requests to the GO 96-B service list should be directed by electronic mail to AdviceTariffManager@sce.com or at (626) 302-4039. For changes to all other service lists, please contact the Commission's Process Office at (415) 703-2021 or by electronic mail at Process_Office@cpuc.ca.gov.

Further, in accordance with Public Utilities Code Section 491, notice to the public is hereby given by submitting and keeping the advice letter submission at SCE's corporate headquarters. To view other SCE advice letters submitted with the Commission, log on to SCE's web site at <https://www.sce.com/wps/portal/home/regulatory/advice-letters>.

For questions, please contact Ka-Wing Maggie Poon at (626) 302-1194 or by electronic mail at ka-wing.poon@sce.com.

Southern California Edison Company

/s/ Gary A. Stern, Ph.D.
Gary A. Stern, Ph.D.

GAS:mp:jm
Enclosure



ADVICE LETTER SUMMARY

ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: Southern California Edison Company (U 338-E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Darrah Morgan
 Phone #: (626) 302-2086
 E-mail: AdviceTariffManager@sce.com
 E-mail Disposition Notice to: AdviceTariffManager@sce.com

EXPLANATION OF UTILITY TYPE
 ELC = Electric GAS = Gas WATER = Water
 PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 4158-E

Tier Designation: 2

Subject of AL: Proposed Survey to Measure Impact of Assembly Bill 1082 Transportation Electrification Pilot

Keywords (choose from CPUC listing): Compliance

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: Decision 19-11-017

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL:

Summarize differences between the AL and the prior withdrawn or rejected AL:

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date: 3/6/2020

No. of tariff sheets: -0-

Estimated system annual revenue effect (%):

Estimated system average rate effect (%):

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: None

Service affected and changes proposed¹:

Pending advice letters that revise the same tariff sheets: None

¹Discuss in AL if more space is needed.

Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102
Email: EDTariffUnit@cpuc.ca.gov

Name: Gary A. Stern, Ph.D.
Title: Managing Director, State Regulatory Operations
Utility Name: Southern California Edison Company
Address: 8631 Rush Street
City: Rosemead
State: California Zip: 91770
Telephone (xxx) xxx-xxxx: (626) 302-9645
Facsimile (xxx) xxx-xxxx: (626) 302-6396
Email: advicetariffmanager@sce.com

Name: Laura Genao c/o Karyn Gansecki
Title: Managing Director, State Regulatory Affairs
Utility Name: Southern California Edison Company
Address: 601 Van Ness Avenue, Suite 2030
City: San Francisco
State: California Zip: 94102
Telephone (xxx) xxx-xxxx: (415) 929-5515
Facsimile (xxx) xxx-xxxx: (415) 929-5544
Email: karyn.gansecki@sce.com

ENERGY Advice Letter Keywords

Affiliate	Direct Access	Preliminary Statement
Agreements	Disconnect Service	Procurement
Agriculture	ECAC / Energy Cost Adjustment	Qualifying Facility
Avoided Cost	EOR / Enhanced Oil Recovery	Rebates
Balancing Account	Energy Charge	Refunds
Baseline	Energy Efficiency	Reliability
Bilingual	Establish Service	Re-MAT/Bio-MAT
Billings	Expand Service Area	Revenue Allocation
Bioenergy	Forms	Rule 21
Brokerage Fees	Franchise Fee / User Tax	Rules
CARE	G.O. 131-D	Section 851
CPUC Reimbursement Fee	GRC / General Rate Case	Self Generation
Capacity	Hazardous Waste	Service Area Map
Cogeneration	Increase Rates	Service Outage
Compliance	Interruptible Service	Solar
Conditions of Service	Interutility Transportation	Standby Service
Connection	LIEE / Low-Income Energy Efficiency	Storage
Conservation	LIRA / Low-Income Ratepayer Assistance	Street Lights
Consolidate Tariffs	Late Payment Charge	Surcharges
Contracts	Line Extensions	Tariffs
Core	Memorandum Account	Taxes
Credit	Metered Energy Efficiency	Text Changes
Curtable Service	Metering	Transformer
Customer Charge	Mobile Home Parks	Transition Cost
Customer Owned Generation	Name Change	Transmission Lines
Decrease Rates	Non-Core	Transportation Electrification
Demand Charge	Non-firm Service Contracts	Transportation Rates
Demand Side Fund	Nuclear	Undergrounding
Demand Side Management	Oil Pipelines	Voltage Discount
Demand Side Response	PBR / Performance Based Ratemaking	Wind Power
Deposits	Portfolio	Withdrawal of Service
Depreciation	Power Lines	

ATTACHMENT A

SURVEY QUESTIONNAIRE

SECTION 1: PROFILE QUESTIONS

School Role

1. How are you related to <insert school name> school?

- Student
- Educator (e.g. teacher, principal)
- Administrative associate
- Facilities associate
- Parent of a student
- Visitor
- Other (please specify) _____

School Arrival and Departure Time

ASK IF Q1 = Student, Educator (e.g. teacher, principal), Administrative associate, Facilities associate, Visitor, Other

2. At what time do you typically arrive at the school?

- 7:00 a.m. or earlier
- 7:01 – 7:30 a.m.
- 7:31 – 8:00 a.m.
- 8:01 – 8:30 a.m.
- 8:31 a.m. or later

3. At what time do you typically leave the school?

- 12:00 p.m. (noon) or earlier
- 12:00 – 1:00 p.m.
- 1:01 – 2:00 p.m.
- 2:01 – 3:00 p.m.
- 3:01 – 4:00 p.m.
- 4:01 – 5:00 p.m.
- 5:01 – 6:00 p.m.
- 6:01 p.m. or later

ASK IF Q1 = Parent

4. At what time do you typically drop off your student at the school?

- 7:00 a.m. or earlier
- 7:01 – 7:30 a.m.
- 7:31 – 8:00 a.m.
- 8:01 – 8:30 a.m.
- 8:31 a.m. or later

5. At what time do you typically pick up your student from the school?

- 12:00 p.m. (noon) or earlier
- 12:00 – 1:00 p.m.
- 1:01 – 2:00 p.m.
- 2:01 – 3:00 p.m.
- 3:01 – 4:00 p.m.
- 4:01 – 5:00 p.m.
- 5:01 – 6:00 p.m.
- 6:01 p.m. or later

Length of Commute

6. How many miles is your one-way commute to the school?

- Less than 5 miles
- 5-9 miles
- 10-19 miles
- 20-29 miles
- 30-39 miles
- 40-49 miles
- 50 or more miles
- Not applicable

Ownership of EV

7. Do you own (or lease) an electric vehicle (EV)?

NOTE: By electric vehicle, we mean either a Battery Electric Vehicle (BEV) that uses electricity only (no gasoline) or a Plug-In Hybrid Electric Vehicle (PHEV) that uses both gasoline and electricity. Hybrid vehicles are only considered to be EVs if they plug-in to charge.

- Yes, I own a Battery Electric Vehicle (does not use gasoline) (e.g., Nissan LEAF, Tesla, etc.)
- Yes, I own a Plug-in-Hybrid Electric Vehicle (e.g., Prius Plug-in, Chevy Volt, etc.)
- Yes, I own **both** a BEV (does not use gasoline) **and** a PHEV (plugs in and uses both gasoline and electricity)
- No, I do not own or lease an electric vehicle (EV)

SECTION 2: ATTITUDINAL AND BEHAVIORAL QUESTIONS

EV DRIVERS

EV Make and Model

ASK IF Q7: OWN EV (PHEV, BEV, OR BOTH) = Yes

8. What is the make and model of your EV?

Frequency of Driving EV to School

9. How often do you drive your EV to the school?

- 4 or 5 days a week / everyday
- 2 or 3 days a week
- Once a week or less often
- Never

Location of EV Charging

10. Where do you charge your EV? Select all that apply.

- At home
- At the school
- At work (other than the school)
- Elsewhere (please specify) _____

Frequency of Charging EV at School

ASK IF Q10 = At the school

11. How often do you currently charge your EV at the school?

- 4 or 5 days a week / everyday
- 2 or 3 days a week
- Once a week or less often
- Never

Reasons for Never Driving EV to School

ASK IF Q9: FREQUENCY OF DRIVING EV = Never

12. Please indicate the reasons why you do not drive your EV to the school. Select all that apply.

PROG: RANDOMIZE OPTIONS EXCEPT "OTHER"

- Battery range is too short for my commute to the school
- Not enough charging stations available at the school
- I am not the primary driver of the EV
- Other (please specify) _____

Main Reason for Not Charging Often or At All at the School

ASK IF Q11: FREQUENCY OF CHARGING EV = Once a week or less often OR Never

13. What is the main reason why you do not charge your EV at the school more often/at all?

PROG: RANDOMIZE OPTIONS EXCEPT "OTHER"

- Do not drive my EV to the school every day
- Too expensive to charge my EV at the school
- Not enough charging stations at the school
- Not aware of charging stations at the school
- Installed charging at home, no need to charge on campus
- Do not spend a lot of time at the school
- Other (please specify) _____

Pricing for Using Charging Stations

ASK IF Q11: FREQUENCY OF CHARGING EV is NOT = Never

14. What type of fee, if any, do you pay for using the charging stations at the school?

- No fee (free of charge)
- Flat fee per charging session (regardless of energy used or time spent)
- Flat fee per period (hour, day, week, month, etc.)
- Fee based on amount of time it takes to charge
- Fee based on amount of energy used (kWh)
- Other (please specify) _____
- Not sure

15. How satisfied are you with the price you pay for using the charging stations at the school?

- 1 – Not satisfied at all
- 2 – Somewhat satisfied
- 3 – Satisfied
- 4 – Very satisfied
- 5 – Completely satisfied

ASK IF Q15 = 1, 2 or 3 (Less satisfied)

16. Please share why you gave that rating.

17. What type of EV charging do you have at home?

- Yes, Level 1 charging (regular outlet plug) (110 – 120 volts)
- Yes, Level 2 charging (210-240 volts)
- None
- Not sure

Impact of EV Charging Stations on Buying / Leasing EV

18. How influential was the availability of EV charging stations at the school on your decision to purchase or lease an EV?

- 1 – Not at all influential
- 2 – Somewhat influential
- 3 – Very influential
- 4 – Extremely influential
- Not sure

NON-EV DRIVERS

Impact of Charging Stations on EV Purchase Decision

ASK IF Q7: EV OWNERSHIP = No

19. Did the placement of EV charging stations at your school increase your awareness of electric vehicles?

- Yes
- No
- Not sure

20. How influential would the availability of EV charging stations at the school be on your decision to purchase or lease an EV?

- 1 – Not at all influential
- 2 – Somewhat influential
- 3 – Very influential
- 4 – Extremely influential
- Not sure

Intent to Buy or Lease EV in Next 2 Years

ASK IF Q20: Impact of Charging Stations on EV Purchase Decision = Very or Extremely influential

21. How likely are you to purchase or lease an EV in the next two years?

- Very likely to purchase or lease an EV in the next 2 years
- Somewhat likely
- Not very likely
- Not at all likely to purchase or lease an EV in the next 2 years

Reasons for NOT Likely to Purchase or Lease EV in Next 2 Years

ASK IF Q21: Intent to Buy EV in Next 2 Years = Not very likely or Not at all likely

22. Why are you NOT likely to purchase or lease an EV in the next two years? Select all that apply.

PROG: RANDOMIZE OPTIONS EXCEPT "OTHER"

- High cost (upfront and /or maintenance)
- Do not need a new or additional vehicle
- Too short battery range for my commute to the school
- Not enough accessible charging stations
- Not enough range for my driving needs
- Other (please specify) _____

SECTION 3: ELECTRIC BUS – AWARENESS AND FREQUENCY OF RIDING / LIKELIHOOD TO RIDE

23. Do you ride the school bus?

- Yes
- No (*SKIP TO Q28*)

ASK IF Q23 = YES

24. Does your school have an electric bus?

- Yes
- No
- Not sure

ASK IF Q24 = YES

25. Do you ride the electric bus?

- Yes
- No

ASK IF Q24 = No

26. How likely are you to ride the school bus in the next 6 months?

- 1 – Not at all likely
- 2 – Somewhat likely
- 3 – Very likely
- 4 – Extremely likely

ASK IF Q26 = Not all likely OR Somewhat likely

27. Why are you NOT likely to ride the school bus in the next 6 months?

SECTION 4: DEMOGRAPHICS

Thank you for all your answers. The last few questions are for classification purposes only.

28. Which city do you live in?

29. Which of the following best describes your ethnic background?

- White or Caucasian
- African American or Black
- Asian or Pacific Islander
- Native American
- Hispanic or Latino, including Spanish, Mexican or Puerto Rican
- Multi-ethnic or multi-racial
- Other (please specify) _____
- Prefer not to answer

30. What is the highest level of education you have completed?

- Some high school or less
- High school graduate
- Some college
- Vocational or technical school
- College graduate
- Graduate school or advanced degree
- Prefer not to answer

31. What is your age group?

- Less than 18 years old
- 18-24
- 25-34
- 35-54
- 55+ years old
- Prefer not to answer

32. Which of the following includes your total annual household income?

- Less than \$25,000
- \$25,000 but less than \$50,000
- \$50,000 but less than \$75,000
- \$75,000 but less than \$100,000
- \$100,000 but less than \$150,000
- \$150,000 or more
- Prefer not to answer

33. What is your gender?

- Male
- Female
- Prefer not to answer

**PG&E Gas and Electric
Advice Submittal List
General Order 96-B, Section IV**

AT&T	Downey & Brand	Pioneer Community Energy
Albion Power Company	East Bay Community Energy	Praxair
Alcantar & Kahl LLP	Ellison Schneider & Harris LLP	
	Energy Management Service	
Alta Power Group, LLC	Engineers and Scientists of California	Redwood Coast Energy Authority
Anderson & Poole	Evaluation + Strategy for Social Innovation	Regulatory & Cogeneration Service, Inc.
	GenOn Energy, Inc.	SCD Energy Solutions
Atlas ReFuel	Goodin, MacBride, Squeri, Schlotz & Ritchie	
BART	Green Charge Networks	SCE
	Green Power Institute	SDG&E and SoCalGas
Barkovich & Yap, Inc.	Hanna & Morton	
P.C. CalCom Solar	ICF	SPURR
California Cotton Ginners & Growers Assn	IGS Energy	San Francisco Water Power and Sewer
California Energy Commission	International Power Technology	Seattle City Light
California Public Utilities Commission	Intestate Gas Services, Inc.	Sempra Utilities
California State Association of Counties	Kelly Group	Southern California Edison Company
Calpine	Ken Bohn Consulting	Southern California Gas Company
	Keyes & Fox LLP	Spark Energy
Cameron-Daniel, P.C.	Leviton Manufacturing Co., Inc. Linde	Sun Light & Power
Casner, Steve	Los Angeles County Integrated	Sunshine Design
Cenergy Power	Waste Management Task Force	Tecogen, Inc.
Center for Biological Diversity	Los Angeles Dept of Water & Power	TerraVerde Renewable Partners
	MRW & Associates	Tiger Natural Gas, Inc.
Chevron Pipeline and Power	Manatt Phelps Phillips	
City of Palo Alto	Marin Energy Authority	TransCanada
	McKenzie & Associates	Troutman Sanders LLP
City of San Jose	Modesto Irrigation District	Utility Cost Management
Clean Power Research	Morgan Stanley	Utility Power Solutions
Coast Economic Consulting	NLine Energy, Inc.	Utility Specialists
Commercial Energy	NRG Solar	
County of Tehama - Department of Public Works	Office of Ratepayer Advocates	Verizon
Crossborder Energy	OnGrid Solar	Water and Energy Consulting Wellhead Electric Company
Crown Road Energy, LLC	Pacific Gas and Electric Company	Western Manufactured Housing Communities Association (WMA)
Davis Wright Tremaine LLP	Peninsula Clean Energy	Yep Energy
Day Carter Murphy		
Dept of General Services		
Don Pickett & Associates, Inc.		
Douglass & Liddell		