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~~CONFIDENTIAL; Deliberative Process Privilege~~

ALJ/KHY/SL5/gp2 /mph **PROPOSED DECISION** Agenda ID # ~~_____~~ 17583 (REV. 1)

Ratesetting
August 15, 2019 Item #20

Decision ~~_____~~ PROPOSED DECISION OF ALJS HYMES AND
GOLDBERG (Mailed 7/16/2019)

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of San Diego Gas &
Electric Company (U902E) For
Approval of Senate Bill 350
Transportation Electrification
Proposals Regarding Medium and
Heavy-Duty Electric Vehicles and a
Vehicle-To-Grid Pilot.

Application 18-01-012

DECISION APPROVING SETTLEMENT ON APPLICATION

A.18-01-012-ALJ/KHY/SL5/gp2

PROPOSED DECISION

Internal Review Draft; Subject to ~~ALJ Division Review~~

CONFIDENTIAL; *Deliberative Process Privilege*

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DECISION APPROVING SETTLEMENT ON APPLICATION

Summary

Today's decision adopts with ~~modification~~ The modifications the *Settlement Agreement Regarding San Diego Gas & Electric Company's Medium-Duty and Heavy-Duty Electric Vehicle Charging Infrastructure Program and Vehicle to Grid Electric School Bus Application, A.18-01-012.*

Application 18-01-012 is closed.

1. Procedural Background

Senate Bill (SB) 350, the Clean Energy and Pollution Reduction Act (Chapter 547, Statutes of 2015), established new clean energy, clean air, and greenhouse gas reduction goals for California for 2030 and beyond. Among other things, SB 350 requires the California Public Utilities Commission (Commission), in consultation with the California Air Resources Board (CARB) and the California Energy Commission (CEC), to direct the utilities under our regulatory oversight to undertake transportation electrification activities consistent with Public Utilities Code Sections (Pub. Util. Code §§) 237.5 and 740.12.1

Decision (D.) 16-11-005 affirmed the direction to Pacific Gas and Electric Company (PG&E), San Diego Gas & Electric Company (SDG&E), and Southern California Edison Company (SCE) to file their first round of applications by January 20, 2017. The utilities met this obligation by filing Applications

1 Unless otherwise stated, all code section references are to the Public Utilities Code.

((A.) 17-01-020, et al.) and supporting testimony for approval of proposed programs and investments to accelerate widespread transportation electrification² (TE) on January 20, 2017.³ Within the A.17-01-020, et al. docket, PG&E, SCE and SDG&E proposed various pilot projects (priority review projects) and larger TE programs (standard review projects). While PG&E and SCE focused their standard review projects in the medium-duty/heavy-duty (MD/HD) sector, SDG&E focused its standard review project to serve residential customers, as a light-duty EV charging infrastructure program.⁴ The Commission issued two decisions in the A.17-01-020, et al. docket. In January 2018, the Commission issued D.18-01-024 authorizing 15 priority review (pilot) projects and [in June 2018, it issued](#) D.18-05-040 approving PG&E and SCE's MD/HD programs and SDG&E's residential charging program.

Prior to the Commission issuing D.18-05-040, SDG&E filed A.18-01-012, seeking authorization to establish and implement a MD/HD program for 3,100 Class 2 – Class 8 on-road electric vehicles and off-road support vehicles (MD/HD EV Charging Infrastructure Program or Program); the Application also includes a pilot program to advance vehicle to grid operations (V2G Pilot). The Application was supported by prepared testimony.

² Transportation Electrification is defined as: the use of electricity from external sources of electrical power, including the electrical grid, for all or part of vehicles, vessels, trains, boats, or other equipment that are mobile sources of air pollution and greenhouse gases and the related programs and charging and propulsion infrastructure investments to enable and encourage this use of electricity. (See D.18-05-040 at 7, reference Pub. Util. Code Section 237.5).

³ D.18-01-024 sets forth the extensive procedural background leading to these applications, which we do not reiterate here.

⁴ Since the time of filing this application, the Commission issued D.18-05-040, which approved SDG&E's \$137 million Residential Charging Program. After approval, SDG&E filed Advice Letter 3341-E to withdraw from implementing the program explaining that the Commission approved a drastically different program than originally proposed making it an unfeasible investment for SDG&E to carry out.

On March 15, 2018, a prehearing conference was held, and on March 30, 2018, a Scoping Memo and Ruling was issued defining the scope and setting the procedural schedule for A.18-01-012 moving forward.

In light of the Commission's findings in D.18-05-040 with respect to PG&E's and SCE's approved MD/HD programs, SDG&E initiated settlement discussions with other parties in the summer of 2018. One week after intervenors served testimony on A.18-01-012, counsel for SDG&E requested a one-month extension for parties to file rebuttal testimony.⁵ In response to a request for additional time "in hopes of reaching settlement on the disputed issues of material fact in this proceeding", the Administrative Law Judges (ALJs) issued a ruling on August 27, 2018 granting a two-week extension to file rebuttal testimony. On September 26, 2018, a subsequent ruling was issued suspending the procedural schedule and taking the evidentiary hearing off the calendar but requiring a status update on settlement discussions by October 26, 2018. A settlement conference was noticed pursuant to Commission Rules of Practice and Procedure, Rule 12.1(b) and held on October 8, 2018. Pursuant to the September 26, 2018 Ruling, SDG&E filed a Status Report on October 24, 2018 stating that a settlement had been reached among the following parties: SDG&E, Public Advocates Office at the California Public Utilities Commission, Natural Resources Defense Council, Environmental Defense Fund, Union of Concerned Scientists, Coalition of California Utility Employees, CALSTART, Small Business Utility Advocates, Electric Motor Werks, Inc., Siemens, ChargePoint, Chanje Energy, Center for Community Action and Environmental Justice, East Yard

⁵ See August 27, 2018 Email Ruling of ALJ Goldberg.

Communities for Environmental Justice, Plug In ~~American~~America and Sierra Club (*collectively*, the Settling Parties).⁶

On November 5, 2018, the Settling Parties filed a motion seeking approval of a *Settlement Agreement Regarding San Diego Gas & Electric Company's Medium-Duty and Heavy-Duty Electric Vehicle Charging Infrastructure Program and Vehicle to Grid Electric School Bus Pilot Application, A.18-01-012* (Settlement) (Motion). The Settling Parties explained that "after evaluating intervenor testimony in light of D.18-05-040's findings and conclusions with respect to PG&E's and SCE's MD/HD applications, SDG&E initiated settlement discussions. These discussions focused on program and budget modifications that would bring SDG&E's MD/HD proposals in line with what was decided for PG&E and SCE."⁶⁷ The Settling Parties did not propose making significant modifications to the V2G pilot program.⁸

Opening comments on the Motion were filed on December 5, 2018 by The Utility Reform Network (TURN), the National Diversity Coalition (NDC), San Diego Airport Parking Company (SDAP), and Tesla. Reply comments on the Motion were filed on December 20, 2019 by the Settling Parties, Greenlots, NDC, and San Diego Airport Parking Company (SDAP).

The assigned ALJs convened a second prehearing conference on February 27, 2019, during which the assigned ALJs provided the Settling Parties an opportunity to present an overview of the Settlement. The ALJs also asked questions to ensure their understanding of the Settlement and proposed budget.

⁶ The non-settling parties are the National Asian American Coalition and National Diversity Coalition; The Utility Reform Network, San Diego Airport Parking Company, Greenlots and Tesla.

⁶⁷ Motion at 3.

⁸ Motion at 13.

The Settlement requests a budget of \$107.4 million for the MD/HD program agreed upon, based on the budgets adopted for PG&E and SCE in D.18-05-040.⁷⁹ When SDG&E first filed its application in January 2018, the utility requested a budget of \$150 million for the MD/HD program.¹⁰ SDG&E explained that with loaders and escalation costs, the Settlement program will cost \$154.8 million over five years, and result in an annual bill impact of about \$4.57 for a typical residential customer using 500 kWh per month in 2022.⁸¹¹ The Settling Parties agree that SDG&E's budget for the V2G Pilot (\$1.7 million, including unloaded and un-escalated direct capital and operation and maintenance [O&M] costs) as proposed in the application, is appropriate.¹²

The Utility Consumers Action Network (UCAN), Small Business Utility Advocates (SBUA), Coalition of California Utility Employees (CUE), and Center for Community Action and Environmental Justice and East Yard Communities for Environmental Justice all motioned for party status and described their interests in participating in the instant proceeding. Given the unique perspective and planned participation these entities described in their motions for party status, all were granted party status in the instant proceeding.

This proceeding was submitted on February 21, 2019 with the issuance of the ALJs' email ruling denying CUE's motion to strike portions of NDC's reply Comments on the proposed Settlement.

⁷⁹ SDG&E and the Settling Parties agreed to present their settlement budget in 2018 dollars. To do so, SDG&E de-escalated the costs used to derive the PG&E and SCE budgets in D.18-05-040, which had been presented by PG&E in A.17-01-022 in escalated 2016 dollars, and then escalated them to 2018 dollars using IHS/Market Global Insights 2nd Quarter 2017 Power Planner forecast.

¹⁰ A.18-01-012 at 7.

⁸¹¹ See Appendix B for SDG&E's cost estimates provided at the March 27, 2019 prehearing conference (PHC).

¹² Motion at 14.

2. Overview of SDG&E's Application

SDG&E designed its Program and Pilot to support the goals of SB 350.⁹¹³ Among other things, the Program and Pilot strive to accelerate TE, provide greenhouse gas (GHG) emissions reduction benefits, provide local emissions reduction benefits, encourage sales growth for EV manufacturers and electric vehicle service providers (EVSPs), and provide employment opportunities for those in the charging equipment installation and maintenance industry.¹⁰¹⁴ SDG&E states that its proposed Program and Pilot could have a positive impact on disadvantaged communities (DACs) by supporting many of California's state environmental and clean vehicle adoption goals.¹¹¹⁵

2.1. Program Description

The Program SDG&E initially proposed in its January 2018 application would provide charging infrastructure to support Class 2 through Class 8 EVs and off-road vehicles such as forklifts¹²¹⁶ and transport refrigeration units (TRUs)¹³¹⁷ (collectively referred to as Target Vehicles). SDG&E proposed to install, maintain and own the infrastructure to support the electrification of 3,100 target vehicles.¹⁴¹⁸ Put another way, SDG&E proposed to install, maintain and own the

⁹¹³ Exhibit SDGE-2 at 2.

¹⁰¹⁴ Exhibit SDGE-2 at 2.

¹¹¹⁵ Exhibit SDGE-2 at 2.

¹²¹⁶ Participation for forklifts in the Program will be limited to certain innovative EV technologies and to customers who have not yet adopted electric forklifts in high quantities (See, Exhibit SDGE-2 at 7).

¹³¹⁷ Exhibit SDGE-2 at 7: TRUs are defined as refrigerator systems that are powered by internal combustion engines inside the unit. They control the environment of temperature-sensitive products, such as food, that are transported in refrigerated trucks and trailers.

¹⁴¹⁸ Exhibit SDGE-2 at 3 to 4.

make-ready¹⁵¹⁹ infrastructure in its Program, including the electric vehicle supply equipment (EVSE). SDG&E also proposed to offer participants the option to have the utility or the participant own the EVSE connected to the make-ready infrastructure.¹⁶²⁰ Under the utility-ownership model, SDG&E would own and maintain the EVSE on behalf of the customer.¹⁷²¹ Under the customer-ownership model, the customer would own the EVSE, but SDG&E would require electric vehicle service providers (EVSPs) to provide extended warranties or maintenance packages.¹⁸²² Under both ownership scenarios, SDG&E would install the EVSE utilizing trained electricians who have Electric Vehicle Infrastructure Training Program (EVITP) certification.¹⁹²³ SDG&E would require any work completed by non-utility personnel to be performed by contractors signatory to the International Brotherhood of Electrical Workers (IBEW) who hold a valid C-10 contractor's license.²⁰²⁴

¹⁵¹⁹ Make-Ready is defined as the service connection and supply infrastructure to support EV charging comprised of the electrical infrastructure from the distribution circuit to the stub of the EVSE. It can include equipment on the utility-side (e.g., transformer) and customer-side (e.g., electrical panel, conduit, wiring) of the meter. (See D.18-05-080 at 6.)

¹⁶²⁰ Exhibit SDGE-2 at 4.

¹⁷²¹ Exhibit SDGE-2 at 4.

¹⁸²² Exhibit SDGE-2 at 4.

¹⁹²³ Exhibit SDGE-2 at 10.

²⁰²⁴ Exhibit SDGE-2 at 10.

SDG&E designed its Program to address a purported key barrier of electrification of the public sector: upfront capital costs of charging infrastructure.²¹²⁵ SDG&E proposed to offer Program participants an allowance (rebate) to offset the cost of the EVSE.²²²⁶ SDG&E proposed conducting a request for proposals (RFP) and then set the allowance amount using a median cost approach based on actual RFP data.²³²⁷ The allowance amounts would be based on the costs submitted through the RFP for networked EVSEs²⁴²⁸ that are qualified and contracted for the Program and support Target Vehicles' power needs. SDG&E proposed to offer a rebate amount that reflects the median cost for each vehicle class, as illustrated in Table 1 below.^{2529, 2630}

Table 1

Vehicle Weight Class	Power Requirement (kilowatt / kW)	Illustrative Allowance for Networked EVSE
Class 2 – 3	10 kW	\$1,000
Class 4 – 5	20 kW	\$1,800
Class 6	50 kW	\$35,000
Class 7 – 8	100 kW	\$45,000

²¹²⁵ Exhibit SDGE-2 at 7 and footnote 4.

²²²⁶ Exhibit SDGE-2 at 4.

²³²⁷ Exhibit SDGE-2 at 5.

²⁴²⁸ A networked EVSE is connected to the Internet via a cable or wireless technology and can communicate with the computer system of a charging network. Being connected to a network lets station owners or site hosts manage who can access stations and how much it costs drivers to charge. An EVSE network typically manages a group of networked EVSE and uses its communication capabilities to monitor and share real-time station status information and usage data, as well as to control access and facilitate payment. EVSE networks may also provide vehicle-grid integration (VGI) services to electrical utilities, as well as customized services to site hosts or station owners.

²⁵²⁹ Exhibit SDGE-2 at 4.

²⁶³⁰ Exhibit SDGE-2, Table 2.

On-Route Chargers	350kW	\$200,000
Forklift or TRU	Various	\$2,000

As proposed, Program participants would be responsible for EVSE costs over the allowance amount.²⁷³¹ SDG&E testified that adjustments may be made to the median cost, but such flexibility is meant to account for various options and features among EVSEs.²⁸³²

SDG&E proposed the percentage of EVSE costs covered by the allowance be based on vehicle type, year of Program sign-up²⁹³³, and whether the vehicle is located in, or travels through a DAC.³⁰³⁴ SDG&E proposed that the allowance amount be decreased over time to incentivize early adopters of the Program.³¹³⁵ The decreased allowance amount is represented in the table below.³⁶

Table 2³²

	Allowance Percentage for Cost of EVSE
Year 1 (non-DAC)	100%
Year 2 (non-DAC)	90%
Year 3 (non-DAC)	80%
Year 4 (non-DAC)	70%
Year 5 (non-DAC)	60%
DAC	100% regardless of year
Transit and School Bus	100% regardless of year
Forklift or TRU	

²⁷³¹ Exhibit SDGE-2 at 3.

²⁸³² Exhibit SDGE-2 at 5.

²⁹³³ The Program is a multiyear program, with the sign-up period lasting up to five years once the Program opens for participant sign-up. Some installations may occur after the sign-up period has ended. (See Exhibit SDGE-2 at 12.)

³⁰³⁴ Exhibit SDGE-2 at 5.

³¹³⁵ Exhibit SDGE-2 at 5 to 6.

³⁶ Exhibit SDGE-2, Table 3.

~~³² Exhibit SDGE-2, Table 3.~~

	\$2,000 regardless of year ³³³⁷
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SDG&E planned the allowance amounts to not only encourage early adopters to the Program, but also to provide greater support in DACs.³⁴³⁸ Because DACs are most impacted by local air pollution, SDG&E proposed to provide greater support in DACs by maintaining a 100 percent allowance in all years of Program sign-up in order to help reduce GHG and other local emissions from MD/HD vehicles.³⁵³⁹ SDG&E proposed allowances for transit and school buses remain at 100 percent throughout the duration of the Program because they provide public service to local communities and those who may not have alternative access to transportation.³⁶⁴⁰

Another aspect of SDG&E's Program is working with local transit agencies to support their conversion to electric buses. SDG&E believes transit buses³⁷⁴¹ are ripe for conversion based on commitments made by Antelope Valley Transit Authority Foothill Transit and Los Angeles Metropolitan Transit Authority to completely electrify their fleets by 2030.³⁸⁴² The Program would also include on-route high powered chargers to support electric transit buses.³⁹⁴³ On-route chargers can operate at approximately 350 kW to 500 kW, and would be installed at transit hubs where bus routes intersect with other forms of public

~~³³ Exhibit SDGE-2 at 6: the forklift and TRU allowance is set towards the lower end of the charger costs for this segment.~~

³⁷ Exhibit SDGE-2 at 6: the forklift and TRU allowance is set towards the lower end of the charger costs for this segment.

³⁴³⁸ Exhibit SDGE-2 at 6.

³⁵³⁹ Exhibit SDGE-2 at 6.

³⁶⁴⁰ Exhibit SDGE-2 at 6.

³⁷⁴¹ "Transit buses" are defined broadly to include buses that are operated by transit agencies but also buses operated by other organizations including universities, airports and tourist locations (see Exhibit SDGE-2 at 8).

³⁸⁴² Exhibit SDGE-2 at 8.

³⁹⁴³ Exhibit SDGE-2 at 12.

transportation.⁴⁰⁴⁴ On-route chargers can charge buses at a given location quickly, to support continual operation throughout the day.⁴¹⁴⁵

SDG&E identified a number of partnerships it has pursued to help accelerate the electrification of buses in its service territory.⁴²⁴⁶ One potential participant is the Otay Mesa Chamber of Commerce, to support the electrification of MD/HD vehicles through the Otay Mesa East Port of Entry (POE), a border crossing between California and Mexico.⁴³⁴⁷ SDG&E suggests that its proximity to an international border may help reduce transportation emissions associated with interstate commerce.⁴⁴⁴⁸ SDG&E plans to work with Program participants to leverage non-ratepayer funds, including grants and incentive programs to ensure the upfront capital needs associated with MD/HD vehicle electrification aren't cost-prohibitive.⁴⁵⁴⁹

2.2. Pilot Description

Along with the Program, SDG&E requested authority to install, maintain and own charging infrastructure associated with the electrification of 10 school buses capable of V2G as distributed energy resources (DER) to bid into the California Independent System Operator (CAISO) markets.⁴⁶⁵⁰ SDG&E testified that the Pilot would help the utility understand how it can utilize EVs as a DER to improve SDG&E's load factor, reduce GHG emissions, and reduce local air

⁴⁰⁴⁴ Exhibit SDGE-2 at 12.

⁴¹⁴⁵ Exhibit SDGE-2 at 12.

⁴²⁴⁶ SDG&E lists the North County Transit District, San Diego Metropolitan Transit System, San Diego International Airport, Balboa Park, the San Diego Zoo, Living Coast Discovery Center, United Parcel Service, Amazon, and Caltrans as some of the entities its had discussions with regarding Program participation (*see* Exhibit SDGE-2 at 12 to 13).

⁴³⁴⁷ Exhibit SDGE-2 at 13.

⁴⁴⁴⁸ Exhibit SDGE-2 at 13.

⁴⁵⁴⁹ Exhibit SDGE-2 at 14.

⁴⁶⁵⁰ Exhibit SDGE-3 at 3.

pollution.⁴⁷⁵¹ The Pilot would be the first to employ V2G enabled school buses to participate in the CAISO energy market utilizing 25 kW (discharging) V2G bi-directional chargers.⁴⁸⁵²

SDG&E planned to provide \$450,000 to help the Pilot (school district) participant fund the purchase of electric school buses.⁴⁹⁵³ [SDG&E categorizes the \\$450,000 as an O&M expense.](#)⁵⁴ SDG&E stated it would give preference to sites located in a DAC to implement the Pilot.⁵⁰⁵⁵ SDG&E additionally proposed a \$100,000 stipend toward the cost of electricity during the Pilot's one-year duration.⁵¹⁵⁶ [SDG&E categorizes the \\$100,000 as an O&M expense.](#)⁵⁷ Similar to the Program, all construction, installation and maintenance will be completed by contractors with EVITP certification and any work completed by non-SDG&E employees will be performed by contractors that are signatories to the IBEW and who hold a valid C-10 contractor's license.⁵²⁵⁸

2.2.1. Background on V2G

V2G is the process of discharging energy from an EV battery to the electric distribution grid.⁵³⁵⁹ SDG&E testified that typically the EV battery is discharged during normal vehicle driving, however, the battery can also be discharged back onto the distribution grid.⁵⁴⁶⁰ While the EV is stationary, the battery can be charged from the electrical grid as well as discharged to the grid to provide

⁴⁷⁵¹ Exhibit SDGE-3 at 2.

⁴⁸⁵² Exhibit SDGE-3 at 2.

⁴⁹⁵³ Exhibit SDGE-3 at 3.

⁵⁴ [A.18-01-012 at 8.](#)

⁵⁰⁵⁵ Exhibit SDGE-3 at 3.

⁵¹⁵⁶ Exhibit SDGE-3 at 3.

⁵⁷ [A.18-01-012 at 8.](#)

⁵²⁵⁸ Exhibit SDGE-3 at 7 to 8.

⁵³⁵⁹ Exhibit SDGE-3 at 3.

⁵⁴⁶⁰ Exhibit SDGE-3 at 3.

system level grid services.⁵⁵⁶¹ The Pilot will use ~~both~~ an alternating current (AC) to direct current (DC) on-board converter to charge the buses as well as a DC to AC off-board inverter to discharge the buses to the grid.⁵⁶⁶² V2G can allow for greater utilization of an asset (electric bus) for the asset owner (Pilot participant / school district) and can provide a revenue stream from the CAISO markets.⁵⁷⁶³ SDG&E sees a future where V2G provides system-level services⁵⁸⁶⁴ to the grid at a larger scale, with the adoption of more and more EVs in the MD/HD and light-duty sectors.⁵⁹⁶⁵

In testimony, SDG&E suggested the Pilot would absorb solar generation in the early afternoon hours, and help offset the steep demand ramp that occurs in the evening hours.⁶⁰⁶⁶ Because of the predictable schedules of bus routes, SDG&E claims school buses are an ideal vehicle to explore solutions to such scenarios.⁶¹⁶⁷ ~~SDG~~SDG&E testified that widespread V2G may help reduce the need to use more costly solutions such as the installation of new powerplants and reserve power infrastructure capable of rapid discharging to the grid.⁶²⁶⁸

2.2.2. ~~2.3.~~ Proposed Cost Recovery

SDG&E requested authority to establish a one-way balancing account to record the authorized revenue requirement and incremental implementation costs associated with the Program and Pilot.⁶³⁶⁹ SDG&E requested to spend

⁵⁵⁶¹ Exhibit SDGE-3 at 3.

⁵⁶⁶² Exhibit SDGE-3 at 5 to 7.

⁵⁷⁶³ Exhibit SDGE-3 at 3.

⁵⁸⁶⁴ System-level grid services can include frequency regulation, load leveling, deferral of distribution capacity upgrades, voltage support, and improved integration of renewable energy.

⁵⁹⁶⁵ Exhibit SDGE-3 at 3.

⁶⁰⁶⁶ Exhibit SDGE-3 at 4.

⁶¹⁶⁷ Exhibit SDGE-3 at 4.

⁶²⁶⁸ Exhibit SDGE-3 at 4.

⁶³⁶⁹ A.18-01-012 at 8.

\$150.6 million in direct Program costs and \$1.7 million in direct Pilot costs.⁶⁴⁷⁰ SDG&E proposed to record revenue and costs associated with the Program and Pilot in balancing accounts until both programs are fully implemented and the remaining and ongoing costs can be submitted as part of the base margin revenue requirement in a future General Rate Case (GRC).⁶⁵⁷¹ SDG&E proposed to record revenues associated with the authorized revenue requirement as well as capital-related costs (*i.e.*, depreciation, taxes and return) and operating and maintenance costs in the above referenced one-way balancing account.⁶⁶⁷² SDG&E proposed to recover all Program and Pilot costs from electric customers through distribution rates.⁶⁷⁷³

3. Overview of Protests and Responses

SDG&E's application sparked interest amongst a diverse group of stakeholders ranging from environmental organization to auto manufacturers.

Protests were filed by the National Diversity Coalition/National Asian American Coalition (NDC), the Public Advocate's Office of the Public Utilities Commission (Cal Advocates),⁶⁸⁷⁴ and The Utility Reform Network (TURN). Responses to the application were filed by ChargePoint, Inc. (ChargePoint), Environmental Defense Fund (EDF), Natural Resources Defense Council (NRDC), CALSTART, and Tesla, Inc. (Tesla).

NDC raises concerns over certain elements of the proposed Program and Pilot in its Protest. NDC has significant concerns about the cost estimates for the

⁶⁴⁷⁰ Exhibit SDGE-2 at 3, Exhibit SDGE-3 at 2.

⁶⁵⁷¹ A.18-01-012 at 8.

⁶⁶⁷² A.18-01-012 at 8 to 9.

⁶⁷⁷³ A.18-01-012 at 9.

⁶⁸⁷⁴ SB 854 (Stats. 2018, ch. 51) amended Pub. Util. Code Section 309.5(a) so that the Office of Ratepayer Advocates is now named the Public Advocate's Office of the Public Utilities Commission. We will refer to this party as Cal Advocates.

Program. NDC explains the costs and size of the Program are high given the limited data available on how best to accelerate TE in the MD/HD market in addition to the variable costs associated with the manufacturing of MD/HD EVs.⁶⁹⁷⁵ NDC also takes issue with the lack of deployment targets for each vehicle class (e.g., within the category of Class 2 – Class 8 commercial vehicles) out of the 3,100 MD/HD EVs SDG&E proposes to support with the Program’s charging infrastructure.⁷⁰⁷⁶ NDC believes SDG&E’s estimated EVSE subsidies⁷¹⁷⁷ could not have been reasonably calculated given the varying costs in EVSE associated with each class of MD/HD EVs.⁷²⁷⁸ NDC believes the Program’s 40 percent DAC target should be higher given the higher air pollution usually found in DACs.⁷³⁷⁹ Turning to the Pilot, NDC is concerned with the Pilot’s size, calling into question how SDG&E arrived at the number (10) of electric school buses.⁷⁴⁸⁰ NDC believes it would be better to wait for lessons learned from current electric school bus programs⁷⁵⁸¹ prior to investing ratepayer funds into the Pilot. NDC does support SDG&E’s proposal to position the Pilot in a DAC, expressing that DAC children and families will have greater exposure to EVs which can help overcome some of the barriers to EV adoption.⁷⁶⁸²

Similarly, Cal Advocates has concerns over the Program’s goals, size and SDG&E’s cost estimates. Cal Advocates highlights that although SDG&E estimates the Program would provide a lifetime net emissions reduction of

⁶⁹⁷⁵ NDC Protest at 9 to 10.

⁷⁰⁷⁶ NDC Protest at 10.

⁷¹⁷⁷ See Table 2.

⁷²⁷⁸ NDC Protest at 10 to 11.

⁷³⁷⁹ NDC Protest at 12.

⁷⁴⁸⁰ NDC Protest at 6.

⁷⁵⁸¹ NDC Protest at 6, referencing priority review projects approved in D.18-01-024.

⁷⁶⁸² NDC Protest at 8.

476,552 metric tons of carbon dioxide equivalent (CO₂e) greenhouse gas emissions, 327.9 metric tons of nitrogen oxides (NO_x), and 50.5 metric tons of fine particulate matter (PM_{2.5}), the installation of charging infrastructure does not directly contribute to emissions reductions.⁷⁷⁸³ Cal Advocates notes that perhaps the emissions reduction goals will be met by requiring that Program participants procure the EV prior to the installation of any charging infrastructure.⁷⁸⁸⁴ Cal Advocates questions the methodology SDG&E used to arrive at its estimate of 3,100 Target Vehicles. Cal Advocates protests that SDG&E does not describe in detail how the 3,100 Target Vehicle number was derived, other than suggesting that the program serve approximately 3 percent of the Class 2 to Class 8 vehicles that operate in its service territory.⁷⁹⁸⁵ Cal Advocates requests that SDG&E provide a quantitative analysis of the reasonableness of its proposed budget, which is \$220.8 million ~~dollars~~ once escalators and loaders are added.⁸⁰⁸⁶ Cal Advocates questions whether utility ownership of the EVSE is necessary or provides benefits superior to that of the customer-ownership model.⁸¹⁸⁷ Additionally, Cal Advocates questions whether utility ownership of the EVSE unfairly competes with the third party MD/HD EVSE market.⁸²⁸⁸ Turning to the Pilot, Cal Advocates suggests SDG&E does not provide sufficient information regarding the anticipated ratepayer benefits, reasonableness of costs, or potential impacts on the EVSE markets the Pilot will provide. Cal Advocates questions

⁷⁷⁸³ Cal Advocates Protest at 3.

⁷⁸⁸⁴ Cal Advocates Protest at 4.

⁷⁹⁸⁵ Cal Advocates Protest at 4.

⁸⁰⁸⁶ Cal Advocates Protest at 4.

⁸¹⁸⁷ Cal Advocates Protest at 5.

⁸²⁸⁸ Cal Advocates Protest at 5.

why it is reasonable for SDG&E ratepayers to subsidize the procurement of the 10 proposed EV buses to be used in the Pilot.⁸³⁸⁹

TURN protests the proposed Program and Pilot on the basis that SDG&E ratepayers are already making significant investments in TE in the light-duty sector.⁸⁴⁹⁰ TURN suggests SDG&E wait to see the results from its MD/HD priority review projects before investing in a large-scale MD/HD program.⁸⁵⁹¹ TURN additionally suggests stakeholders have sufficient time to review and analyze a final decision on SCE and PG&E's MD/HD TE programs in A.17-01-020, et al.⁸⁶⁹² TURN proposes separating the Program into two phases, or significantly scaling it back, to protect ratepayer investments.⁸⁷⁹³ TURN asserts, "given that PG&E's service territory is substantially larger with significantly more commercial customers (around 540,000 vs. 150,000 for PG&E and ~~SDG&E~~^{SCE}, respectively) SDG&E's budget and/or vehicle count may be inflated."⁸⁸⁹⁴

ChargePoint, an EVSE manufacturer and network service provider⁸⁹⁹⁵, largely supports the Program and Pilot in its Response, but questions certain programmatic design elements.⁹⁰⁹⁶ ChargePoint explains that a one-time RFP would limit customers' access to new entrants, new equipment and new services

⁸³⁸⁹ Cal Advocates Protest at 7 to 8.

⁸⁴⁹⁰ TURN Protest at 4: SDG&E is implementing a \$45 million light-duty charging infrastructure program (A.14-04-014) and recently had another approximately \$19 million in Priority Review TE projects approved, three of which target the non-light duty sector.

⁸⁵⁹¹ TURN Protest at 4.

⁸⁶⁹² TURN Protest at 8.

⁸⁷⁹³ TURN Protest at 8.

⁸⁸⁹⁴ TURN Protest at 9, citing 2015 figures for PG&E and 2016 for SDG&E.

⁸⁹⁹⁵ ChargePoint Response at 1: ChargePoint engineers, manufacturers, and sells a complete line of L2 and DCFC EVSE and serves as a network service provider

⁹⁰⁹⁶ ChargePoint Response at 3.

in the rapidly evolving TE manufacturer space.⁹¹⁹⁷ ChargePoint suggests that if the Commission adopts SDG&E's proposals, it should order a vendor qualification process that either remains open to all eligible providers over the course of the program or that provides for entry/ updating at a reasonable pace with industry changes, such as every six months.⁹²⁹⁸ ChargePoint ~~additionally~~ suggests that establishing standards for ~~the standardization of~~ charging equipment connectors will ensure that ratepayer funded infrastructure will remain used and useful throughout the duration of the program, and beyond.⁹³⁹⁹ ChargePoint notes that the Pilot "is interesting" but does not necessarily align with the goals of SB 350 because it was not designed to "stimulate competition and innovation," or "enable consumer options in charging equipment services."⁹⁴¹⁰⁰

~~The Environmental Defense Fund (EDF)~~EDF intends its Response to be considered alongside the joint Response of ~~the Natural Resources Defense Council (NRDC)~~NRDC.⁹⁵¹⁰¹ EDF and NRDC support SDG&E's proposed investment in the MD/HD sector, noting that the Program and Pilot will provide charging infrastructure for vehicle categories that are ripe for deployment, including electric buses.⁹⁶¹⁰² EDF and NRDC believe the SDG&E application, alongside the MD/HD programs approved for PG&E and SCE should provide lessons learned and lay a solid foundation for MD/HD market expansion.⁹⁷¹⁰³

⁹¹⁹⁷ ChargePoint Response at 4.

⁹²⁹⁸ ChargePoint Response at 4.

⁹³⁹⁹ ChargePoint Response at 4 to 5.

⁹⁴¹⁰⁰ ChargePoint Response at 7, citing §740.12(a)(1)(F).

⁹⁵¹⁰¹ Parties to NRDC's joint Response include Plug In America, Sierra Club, Environmental Defense Fund, Union of Concerned Scientists, Greenlots, Siemens, Electric Motor Werks, Inc. and Chanje Energy.

⁹⁶¹⁰² NRDC Response at 7.

⁹⁷¹⁰³ NRDC Response at 7.

NRDC cites many health risks associated with MD/HD vehicle exposure, including respiratory diseases, heart conditions, and heightened cancer risks.⁹⁸¹⁰⁴ Because of the risks associated with MD/HD vehicle emissions (diesel particulate matter, NO_x, and GHG emissions), NRDC and EDF feel SDG&E sized its Program appropriately, especially with the proposed 40 percent DAC target.⁹⁹¹⁰⁵ EDF strongly supports siting the Pilot in a DAC, and encourages that data collection from the Pilot go on longer than one year due to the nascency of V2G technology.¹⁰⁰¹⁰⁶

CALSTART and Tesla generally support SDG&E's application. CALSTART is a nonprofit organization aiming to accelerate the commercialization of clean transportation technologies, and Tesla is a leading clean technology and EV manufacturer. CALSTART supports the electrification of the MD/HD sector highlighting that California's MD/HD EV market is ready for a major utility infrastructure investment.¹⁰¹¹⁰⁷ CALSTART attributes this "readiness" to technological advancements in the battery industry, including electrification of Class 8 vehicles gaining market share faster than light-duty vehicles.¹⁰²¹⁰⁸ Tesla supports investments in the MD/HD EV charging infrastructure for all vehicle types because of the variety of MD/HD EVs available in the next several years in addition to strong commitments by other state agencies to increase investment in MD/HD EVs.¹⁰³¹⁰⁹ Contrary to ChargePoint's Response, Tesla supports SDG&E's proposal to not require a

⁹⁸¹⁰⁴ NRDC Response at 8.

⁹⁹¹⁰⁵ NRDC Response at 8.

¹⁰⁰¹⁰⁶ EDF Response at 7.

¹⁰¹¹⁰⁷ CALSTART Response at 4.

¹⁰²¹⁰⁸ CALSTART Response at 4.

¹⁰³¹⁰⁹ Tesla Response at 2.

standard connector for the EVSE.¹⁰⁴¹¹⁰ Tesla explains it is premature to require a standard connector for MD/HD charging participants due to the emerging technology in MD/HD EVs.¹⁰⁵¹¹¹

4. Overview of the Settlement

The Settlement covers the Program and the Pilot. We summarize the revisions to the Program and Pilot as agreed to by the Settling Parties below.

The Settling Parties agree on the Pilot as proposed by SDG&E. The Pilot will use ten electric school buses capable of V2G as distributed energy resources to bid into the California Independent System Operator market. SDG&E will install, maintain, and own EVSE for the Pilot. SDG&E will continue to seek and leverage alternate sources of funding for the electric school buses. Data collection and reporting will include monitoring to ensure asset utilization and V2G operation, analysis of scaling and interaction with the California Independent System Operator, and discussion of barriers and possible solutions. Following guidance from its Program Advisory Council (see Section 4.3 for more information), SDG&E may submit a Tier 2 Advice Letter to make any necessary programmatic changes to the Pilot. The Settling Parties agree on a budget of \$1.7 million for the Pilot with ~~the caveat~~ [program flexibility so](#) that SDG&E may adjust funds across different budget lines during the Pilot's deployment. Cost recovery for the Pilot will occur through distribution rates and be allocated to customer classes on an equal cents per kWh basis.

The Settling Parties agree that the Program will provide charging infrastructure to support a range of Class 2 through Class 8 vehicles including off-road support vehicles such as forklifts and transport refrigeration units. The

¹⁰⁴¹¹⁰ Tesla Response at 3.

¹⁰⁵¹¹¹ Tesla Response at 4.

Program will provide rebates, up to 50 percent , for transit and school bus EVSE, and for participants (1) who are located in DACs and (2) not on the Fortune 1000 list. As further described below, the Settling Parties agree to modify SDG&E's proposed program and eliminate the utility ownership option for the EVSE. Settling Parties also agree that costs for the Program will be recovered by allocating costs to each customer class on an equal cent per kilowatt hour basis. Relying on estimates adopted in Decision (D.) 18-05-040 (approving Pacific Gas & Electric Company's (PG&E) MD/HD application),¹⁰⁶¹¹² the Settling Parties agree to reduce the Program's budget to \$107.4 million while increasing the Program's size to a ~~maximum~~target of approximately 6,000 MD/HD electric vehicles. Furthermore, the Settling Parties agree that the funding, while authorized in its entirety, will become available for program implementation at two points in time. Further details of the Settlement with respect to the Program and its funding timeline are provided in sections 4.1 through 4.3.

¹⁰⁶¹¹² The per site cost estimates used to determine the budget are based on PG&E's ¶ A.17-01-022, which escalated costs from 2016 dollars to future dollars with assumed implementation in each year from 2018-2022 of the five-year program. SDG&E's budget is equal to \$107.4 million in 2018 dollars. This was calculated by de-escalating PG&E's per site estimates to 2016 dollars, escalating to 2018 dollars, and applying to SDG&E's program size. (See Motion at Footnote No. 3.)

4.1. Program Budget, Per Se Metrics, Budget Timeline and Cost Recovery

The Settling Parties agree to a budget of \$107.4 million (in 2018 dollars un-escalated and unloaded)¹⁰⁷¹¹³ for the Program, which the Settling Parties ask the Commission to approve in its entirety in a decision addressing the Settlement. Consistent with the per site costs approved in D.18-05-040, the budget will be used to support a deployment minimum of 3,000, with ~~authorization up to 6,068,~~ the target for the Program to deploy approximately 6,000 MD/HD electric vehicles and the following “per se reasonable metrics”. The Settling Parties agree that if SDG&E achieves these metrics, then its spending up to the authorized budget will be deemed reasonable.¹⁰⁸¹¹⁴

- a minimum of 300 make-ready installations are fully contracted for after five years of program deployment and 3,000 additional vehicles are electrified that are directly attributable to the authorized program achieved by site hosts procuring at least two electric vehicles or converting at least two diesel fueled vehicles to electric;
- a minimum of 10 percent of the infrastructure budget¹⁰⁹¹¹⁵ will serve transit and school buses;
- a maximum of 10 percent of the infrastructure budget will serve forklifts;
- a minimum of 30 percent of the infrastructure budget will result in installations in disadvantaged communities in

¹⁰⁷¹¹³ Overhead loaders are used to allocated undistributed company overhead costs across capital projects and Operations and Management. Overhead costs are those activities and services that are associated with direct costs, such as payroll taxes and pension and benefits, or costs that cannot be economically direct-charged, such as administrative and general overheads. Cost escalation factors are used to reflect the effect of inflation on SDG&E’s costs. (See Motion at Footnote No. 4.)

¹⁰⁸¹¹⁴ Motion at 5.

¹⁰⁹¹¹⁵ The infrastructure budget equals \$63.9 million of the total \$107.4 million budget. The infrastructure budget portion of the initial \$84 million is \$50 million.

- SDG&E's territory, using SDG&E's service territory definition for disadvantaged communities;
- rebate levels (not to exceed 50 percent of the charger cost) for beach head sectors and customers in disadvantaged communities are established in consultation with SDG&E's Program Advisory Council; and
 - a maximum of 10 percent of the budget is spent on program administration.

The Settling Parties also agree that the funds will become available for use by SDG&E in two tranches. The Settling Parties explain that, upon issuance of the decision, SDG&E would be authorized to utilize \$84 million (2018 dollars unloaded and escalated) and then the remaining \$23.4 million (2018 dollars unloaded and escalated) would be utilized by SDG&E upon approval of a Tier 2 advice letter indicating SDG&E's progress towards the following interim metrics:

- a minimum of 150 make-ready installations are fully contracted for and 1500 additional vehicles are expected to be electrified that are directly attributable to the authorized Program achieved by site hosts that have procured at least two electric vehicles or converted two diesel fueled vehicles to electric; and
- a minimum of 30 percent of the infrastructure budget is committed to installations in disadvantaged communities in SDG&E's territory, using SDG&E's service territory definition for disadvantaged communities.

The Settling Parties clarify that achieving the interim *per se* metrics will not be a prerequisite to filing an advice letter to request the second part of funding. Further, the Settling Parties agree that SDG&E will not file the Tier 2 advice letter

until approximately \$33 million, or 66 percent of the program's infrastructure budget has been committed to projects.¹¹⁶

As with the Pilot, Settling Parties agree that costs for the Program will be recovered from ratepayers through distribution rates and allocated to customer classes on an equal cents per kWh basis.¹¹⁷ Relatedly, the Settling Parties agree that 15 percent of the approved education budget will be dedicated to educating small businesses on the benefits of transportation electrification.

4.2. Program Consistency with D.18-05-040 and Other Program Terms

The Settling Parties agree that ~~the~~SDG&E's originally proposed Program-structure should be modified to align with several aspects of the make-ready programs approved in D.18-05-040. Accordingly, the Settling Parties agree that SDG&E will construct, own, operate, and maintain the make-ready infrastructure on the utility side of the meter in all instances and in some instances on the customer side of the meter. ~~If~~Consistent with ordering paragraph 39 of D.18-05-040, if a customer chooses ownership, the customer must manage and pay for the installation of the customer-side infrastructure and use state licensed labor for which the utility will provide a rebate of ~~the lesser of either up to 80 percent of the installation costs, treating these costs as an expense for ratemaking purposes, and the customer must commit to operate and maintain the facilities consistent with relevant national, state, and local electrical standards for their site.~~¹¹⁸ The Settling Parties agree that the rebate for customer-side infrastructure the customer installs shall be the lesser of (a) 80 percent of the customer's actual

¹¹⁶ Budget numbers referenced here are in 2018 dollars unloaded and escalated. (See Settlement at Appendix B.

¹¹⁷ Motion at 8.

¹¹⁸ Motion at 8.

installation costs; or

(b) 80 percent of the average utility direct cost for installing the customer-side make-ready infrastructure in the relevant sector, ~~whichever is lower.~~¹¹² ~~The customer must commit to operate and maintain the facilities consistent with all electrical standards for the site.~~¹¹⁹ The Settling Parties agree that SDG&E will not own the EVSE or charging station.¹¹³¹²⁰

As noted previously, the Settling Parties agree that a minimum of 30 percent of the infrastructure budget will be allocated to deploy infrastructure in disadvantaged communities. Consistent with D.18-05-~~050,040~~, Settling Parties agree that 50 percent of funds reserved for DAC rebates not committed to sites in DACs after the fourth year of the Program may be released if SDG&E has not achieved 60 percent of its target in disadvantaged communities and 80 percent of its target in non-disadvantaged communities. The Settling Parties clarify that “released” is defined as the rebates may be used in non-disadvantaged communities to accelerate MD/HD EV adoption.¹¹⁴¹²¹

Settling Parties agree that the Program will have a five-year enrollment period, while design and construction may extend beyond the fifth year. Settling Parties further agree that participants will be required to submit a load management plan detailing a strategy for facilitating charging behavior to minimize grid impacts and recognize periods of high renewable generation. SDG&E will monitor customer load management plans.¹¹⁵¹²²

¹¹² ~~The rebate costs will be treated as an expense for ratemaking purposes.~~

¹¹⁹ Motion at 8 to 9.

¹¹³¹²⁰ Motion at 9.

¹¹⁴¹²¹ Motion at 11.

¹¹⁵¹²² See Ordering Paragraph ~~9~~¹⁰.

Settling Parties agree that all construction, installation, and maintenance of EVSE chargers and EVSE make-ready infrastructure not performed by SDG&E employees shall be performed by contractors who are signatory to the International Brotherhood of Electrical Workers who hold a valid C-10 contractor's license and any electricians must have an Electric Vehicle Infrastructure Training Program certification.^{[H6123](#)}

With respect to rebates for transit and school bus EVSE, Settling Parties agree that rebates are limited to no more than 50 percent of the cost of the EVSE and no more than the cost the site host pays for the EVSE after accounting for any other funding sources used for EVSE procurement. Further, Settling Parties agree that rebates may be offered to participants located in a disadvantaged community, as defined in D.16-01-045 for SDG&E's territory so long as those participants are not on the Fortune 1000 list.^{[H7124](#)}

Consistent with D.18-05-040, the Settling Parties agree that SDG&E will collect data and annually report information on EV adoption.^{[H8125](#)} Four percent of the total budget is allocated to fund a third-party evaluator, as was adopted in D.18-05-040.

Lastly, the Settling Parties agreed that SDG&E would hold an EV rates workshop by the end of November 2018.^{[H9126](#)} SDG&E will then develop a new rate option(s) within six months of final approval the Program.

^{[H6123](#)} Motion at 10.

^{[H7124](#)} Motion at 10.

^{[H8125](#)} Motion at 12 to 13.

^{[H9126](#)} SDG&E held its EV rates workshop on November 5, 2018, pursuant to the Settlement.

4.3. Creation of a Program Advisory Council

The Settling Parties agree that SDG&E will leverage a broad and diverse stakeholder community (including local and state government representatives, representatives from the Commission's Energy Division, industry and labor representatives, ratepayer and environmental advocates, and representatives of DACs) through the development of a Program Advisory Council, which will participate in planning and implementing the Program. Members of this council representing DACs may be paid for participation. Other roles of the Council include providing guidance to SDG&E in setting rebate levels for transit and school bus EVSE, developing further requirements for eligibility, and making general programmatic changes as needed.¹²⁰¹²⁷ However, changes to the Program must be approved through a Tier 2 advice letter. Consistent with D.18-05-040, Settling Parties also agree that after two years of program implementation and consultation with the Council, SDG&E may file a Tier 3 advice letter requesting to adjust budgets or metrics used to determine *per se* reasonableness.

5. Overview of Protests to the Settlement

Greenlots, NDC, SDAP, Tesla and TURN filed protests to the Settlement focusing on the following issues: the scale of the Program, Program requirements, the union labor requirement in the Program, Program rebates for EVSE, the portion of the Program budget allocated to disadvantaged communities, customer ownership option in the Program, and EV rates. No party objected to Settlement terms related to the Pilot. A brief overview of the objections is provided below.

¹²⁰¹²⁷ Motion at 12.

With respect to the size of the Program, TURN, SDAP, and NDC contend the Program is oversized relative to SDG&E's service territory and commercial customer base. All three parties point to initial testimony that they assert overestimated costs and inflated EV adoption modeling. TURN argues that a \$68.3 million budget with a 3,085 vehicle target is more appropriately sized for SDG&E's service territory. SDAP highlights that SDG&E's commercial customer class and overall customer base is significantly smaller than PG&E and SCE's, and that the Program should be sized to avoid overburdening ratepayers. NDC alleges that the 6,000 EV target could be anticompetitive because it could affect approximately 6.5 percent of the MD/HD market in SDG&E's territory.

SDAP and Greenlots support some additional specific program requirements not included in the Settlement. SDAP requests that the Commission establish a minimum power level for the make-ready equipment to ensure it can support higher-power EVSE for larger batteries in the MD/HD sector. Greenlots recommends the addition of the option for SDG&E to own and operate the EVSE in order to encourage broader customer participation and reduce the risk of equipment malfunction leading to stranded assets. TURN however contends that customers should be required to own and operate the infrastructure on their side of the meter if it is found to be the least-cost option.

With respect to the requirement that contractors installing make-ready infrastructure in the Program be IBEW signatories, Tesla and NDC both oppose this requirement. Tesla argues there is no factual or legal grounds for this requirement. NDC alleges inconsistency with the Safety Requirements Checklist adopted in D.18-05-040 and D.18-01-024.

On the subject of rebates, TURN opposes the possibility of providing rebates to Fortune 1,000 companies. Arguing that any Fortune 1,000 participants should pay at least 50 percent of the customer-side infrastructure cost and 100 percent of the EVSE cost, TURN recommends that rebates should only apply to the cost of the EVSE not the installation costs. Further TURN recommends that the Commission, not the Program Advisory Council, establish rebate amounts.

Turning to the matters related to disadvantaged communities, TURN and NDC protest the reduction in targets for disadvantaged communities. NDC argues the reduction from 40 percent to 30 percent of installation dollars “will likely reduce the overall deployment of infrastructure in disadvantaged communities.” NDC adds that a higher deployment target would align the program with incremental state funding available to buy electric transit and school buses. TURN also argues against releasing the uncommitted rebate funds in the fourth year of the Program and highlights that D.18-05-040 does not authorize providing rebates for any site other than those electrifying transit/school buses or located in disadvantaged communities. NDC also protests the DAC definition the Settling Parties agree to. The Settling parties agree to SDG&E’s service territory definition for DACs, as approved in Advice Letter (AL) 2876-E on March 31, 2016.¹²⁸ NDC recommends the Commission change the DAC definition for the Program and V2G Pilot to the statewide methodology to ensure ratepayer funds are appropriately focused in communities that are the most impacted by MD/HD emissions.

On matters regarding EV rates, SDAP argues that while SDG&E is designing a new commercial EV rate, the Commission should require the utility

¹²⁸ This AL filing was authorized in D.16-01-045.

to offer an interim rate with lower demand charges to commercial and industrial customers who adopt transportation electrification immediately.¹²⁹

6. Standard of Review for Settlements

The Commission has long favored the settlement of disputes.¹²¹¹³⁰ Article 12 of the Commission's Rules of Practice and Procedure generally concerns settlements. Pursuant to Rule 12.1(d), the Commission will not approve a settlement unless it is found to be reasonable in light of the whole record, consistent with law, and in the public interest. This standard applies to settlements that are both uncontested and contested. Where a settlement is contested, it will be subject to more scrutiny than an uncontested settlement. The proposed settlement at issue here is contested because it was not agreed to by all the parties and it was protested.

While our policy is to favor settlement of disputed issues, our standard of review for settlements is designed to ensure that settlements meet a minimum standard of reasonableness in light of the law and the record of the proceeding. A settlement can be unreasonable, and we will not be persuaded to approve unreasonable settlements simply because of a general policy favoring the approval of settlements. There are several characteristics that can render a settlement unreasonable. One such attribute is the presence of significant deviations from Commission findings, policies, and practices if those deviations that are not adequately explained and justified in the motion for the settlement's adoption. Another such attribute is the lack of demonstration that the settlement fully and fairly considered the interests of all affected entities – both parties and

¹²⁹ On July 3, 2019 SDG&E filed Application 19-07-006, SDG&E's Application for Approval of EV High Power Charging Rate.

¹²¹¹³⁰ D.17-08-030 at 9.

non-party entities such as affected customers. We have no obligation to approve unreasonable settlements.

With this standard in mind, we turn to the contested settlement at issue here.

6.1. The Settlement is Reasonable in Light of the Whole Record

The Commission has a well-established policy of adopting settlements if they are fair and reasonable in light of the whole record.¹²²¹³¹ In D.00-09-034, the Commission held that the parties' evaluation of their respective litigation positions and the settlement agreement is reasonable because it represents the collective best efforts of the Settling Parties.

The Settlement dated November 5, 2018 represents the collective best efforts of the Settling Parties because they have agreed to modified Program provisions that are supported by the testimony and responsive pleadings filed in this proceeding. Although certain elements of the Program and Pilot have been modified by the Settling Parties, the core of the original proposals remains intact.

One of the modified provisions we focus on is SDG&E's concession to not own the EVSE associated with the Program. This programmatic change is important to highlight because many of the protests and intervenor testimony questioned the need for the utility to own both the make-ready and EVSE infrastructure associated with the Program.¹²³¹³² We agree that SDG&E's original proposal to give Program participants the option to have the utility own the EVSE lacked explanation as to why such an option was in the ratepayers' interest.¹²⁴¹³³ Eliminating utility ownership of the EVSE is not only supported by

¹²²¹³¹ Motion at 16; D.18-09-034 at 20.

¹²³¹³² Exhibit TURN-1 at 15.

¹²⁴¹³³ Exhibit TURN-1 at 15.

intervenor testimony, it aligns with the make-ready infrastructure programs approved in D.18-05-040.

We find the size of the Program to be reasonable in light of the whole record. The Settling Parties agreed to a lower budget than SDG&E had first proposed, and set 3,000 EVs as a minimum number of additional EVs directly attributable to the Program.¹²⁵134 The Settling Parties attest the settled vehicle mix and per site budget cost estimates should allow for the electrification of 6,000 EVs for the Program.¹²⁶135 Given some of the parties' protests that the Program was too large and costly, the agreed upon lower budget and vehicle/site mix targets are reasonable given the Settling Parties' expectation for SDG&E to do more with less funding than originally requested.¹²⁷136 ~~Moreover, the~~ While we understand TURN's protest about the Program being too expensive, we do base our findings on SDG&E's costs estimates. Moreover, the MD/HD market is in very early stages which has some inherent cost uncertainty. The Program's *per se* reasonable standard and metrics ~~is~~are consistent with the *per se* minimums and budgets the Commission established in D.18-05-~~040~~.¹²⁸040 while providing ratepayer protections and meeting the objectives of SB 350.¹³⁷

6.2. The Settlement is Consistent with the Law

We conclude the Settlement is consistent with the law. In the Motion, the Settling Parties assert that the terms of the Settlement are consistent with the provisions of the California Public Utilities Code, prior Commission decisions, and other applicable laws including California's climate change laws and

¹²⁵134 Settling Parties Joint Reply at 3.

¹²⁶135 Settling Parties Joint Reply at 3.

¹²⁷136 Settling Parties Joint Reply at 4.

¹²⁸137 Settling Parties Joint Reply at 5.

policies.¹²⁹138 The Settling Parties' assertions are described below along with a description of other parties' allegations that the Settlement is not consistent with law.

With respect to climate change laws, the Settling Parties point specifically to SB 350, Assembly Bill 32, and SB 32, all pertaining to greenhouse gas reduction goals for California. We find that approval of the Settlement, which will result in adoption of the Program and Pilot, should reduce greenhouse gas emissions in the MD/HD sector ~~in compliance~~consistent with California climate change laws and policies.

Furthermore, the Settling Parties also assert that the Settlement is consistent with SB 100 and Executive Order (EO) B-55-18, both of which are focused on carbon neutrality and net negative emissions.¹³⁰139 We agree with the Settling Parties that the Program as modified by the Settlement is consistent with SB 100¹³¹140 and EO B-55-18 through its rebates incentivizing customers to adopt electric trucks and buses.¹³²141

Lastly, the Settling Parties highlight that the Settlement "reflects an effort to make its terms consistent with those approved in D.18-05-040."¹³³142 In our review of the Settlement, there are several examples of modifications to the Program indicating that Settling Parties put forth an effort to align the Program with D.18-05-040. Importantly, the Settling Parties agreed to adopt the following program components from D.18-05-040: *per se* reasonableness metrics,

¹²⁹138 Motion at 17.

¹³⁰139 Motion at 18. EO B-55-18 calls for the elimination of carbon emissions in the state by 2045 and SB 100 requires the state's electricity to be emissions-free by 2045

¹³¹140 SB 100 was codified as Chapter 312, Statutes of 2018

¹³²141 See Motion at 18.

¹³³142 Motion at 18.

make-ready infrastructure specifics, release of rebates reserved for disadvantaged communities, and authorization to file a Tier 3 advice letter to request programmatic changes.¹³⁴143 Another example of consistency with D.18-05-040 is that the budget agreed upon by the Settling Parties relies on site cost estimates adopted in D.18-05-040.¹³⁵144 We find the Settlement is consistent with D.18-05-040.

In protest to the Settlement, TURN and Tesla argue that certain aspects of the Settlement are not consistent with applicable law. We address each of these contentions.

We begin with TURN's contention that the size of the Program in the Settlement is inconsistent with D.18-05-040. TURN argues that the Settling Parties present no evidence for why 6,000 vehicles is an appropriate size for SDG&E's territory. SDG&E originally proposed to electrify 3,085 vehicles. TURN claims that the number of vehicles in the Settlement proposal for SDG&E's Program is significantly larger than that of the programs approved in D.18-05-040 for PG&E and Southern California Edison Company when accounting for the size of SDG&E's territory. SDG&E's vehicle number range in the Settlement is 3,000 to ~~6,085~~6,000.¹⁴⁵ D.18-05-040 approved PG&E's range of 6,500 to 12,812 vehicles and SCE's range of 8,490 to 16,991 vehicles.

In reviewing D.18-05-040, it appears that the determination of the number of vehicles in the MD/HD programs was not an exact science. In fact, in D.18-05-040, the Commission acknowledged that "the proposed programs do not include the normal level of detail that provides us comfort that an upfront

¹³⁴143 Settlement at III.D, I, L, and M.

¹³⁵144 Motion at 4. See also Settlement at III.A.a.

¹⁴⁵ Motion at 6.

reasonableness determination, for the scale of the programs proposed, is appropriate.”¹³⁶¹⁴⁶ Further, the Commission stated that budget calculations “assume a certain number of sites in each sector to reflect our sector priorities; however, we do not require the utility to adhere to this specific sector mix, we use it only for purposes of developing the adopted budget.”¹³⁷¹⁴⁷ Hence, while we agree that the SDG&E range for its number of vehicles may not be precise, we find that this does not conflict with D.18-05-040. -

Tesla argues against the requirement that construction and installation of EVSE make-ready infrastructure and installation of EVSE/chargers not performed by SDG&E employees shall be performed by contractors who are signatories of IBEW. Tesla maintains that the Settling Parties provide no rationale for this requirement, which conflicts with Rule 12.1(a). Tesla also asserts that this requirement represents a “significant deviation” from the established checklist adopted in D.18-01-024 and D.18-05-040. In response, the Settling Parties point to SDG&E’s justification for the IBEW language in its original testimony, whereby SDG&E contends technology advancements and utility programs should support well-paying local jobs.¹³⁸¹⁴⁸ The Settling Parties also underscore that the Safety Requirements Checklist is a minimum and not the maximum amount of safety that can be exercised.¹³⁹¹⁴⁹ We find that the IBEW language in the Safety Requirements Checklist does not conflict with the IBEW requirements included in the Settlement.

TURN ~~contends that the consideration of treatment of~~ takes issue with the Settlement’s language regarding Fortune 1000 ~~list~~ companies who allow tenants

¹³⁶¹⁴⁶ D.18-05-040 at 101-102.

¹³⁷¹⁴⁷ D.18-05-040 at 102.

¹³⁸¹⁴⁸ Settling Parties Reply to ~~Protests of~~ Comments on Settlement at 15 and Footnote No. 42.

¹³⁹¹⁴⁹ Id. at 15.

or ~~others~~ other users to utilize ~~EVSE~~EVSEs on their premises.¹⁵⁰ TURN contends the language on this issue is vague and ~~not consistent with D.18-05-040~~.is a departure from the exemption that Fortune 1000 companies are not to receive ratepayer funded rebates, as was established in D.18-05-040.¹⁵¹ TURN's concern centers on ensuring residential ratepayers, including low-income ratepayers, are not subsidizing wealthy corporations' charging needs.¹⁵² TURN argues that there has not been any evidence to justify modification of the exemption from EVSE rebates for Fortune 1000 company sites located in disadvantaged communities.¹⁴⁰¹⁵³—

~~D.18-05-040 does not include this language.~~ In response, the Settling Parties explain that increased EV adoption is needed to support the market and encourage robust supply chains and therefore adopters of all sizes should be encouraged.¹⁴¹¹⁵⁴ We find this language consistent with D.18-05-040 in that it continues to focus on *use* (emphasis added) by those not on the Fortune 1000 list. As noted by the Settling Parties, the Settlement Agreement limits EVSE rebates as it pertains to Fortune 1000 companies but recognizes that EV adoption must be encouraged by both large and small companies.

With respect to the release of 50 percent of the rebate funds reserved for DACs, TURN asserts that the proposal to allow these funds to be spent as rebates in any location is not consistent with D.18-05-040.¹⁴²¹⁵⁵ TURN argues that D.18-05-040 did not approve providing EVSE rebates to non-transit/school bus

¹⁵⁰ [TURN Comments on Settlement at 11 to 12.](#)

¹⁵¹ [TURN Comments on Settlement at 11.](#)

¹⁵² [TURN Comments on Settlement at 11 to 12.](#)

¹⁴⁰¹⁵³ TURN ~~Protest of~~[Comments on Settlement at 11.](#)

¹⁴¹¹⁵⁴ Settling Parties Joint Reply at 13.

¹⁴²¹⁵⁵ TURN ~~Protest of~~[Comments on Settlement at 14.](#)

or non-DAC sites. TURN explains that this language refers to releasing these funds to the make-ready portion of the program. In our review of D.18-05-040, it is apparent that the decision allows that “any remaining funds that are unallocated after year 4 may be spent in any location...to...ensure that the environmental and public health benefits of electrifying the MD/HD sector are realized, which would also benefit residents of DACs.”¹⁴³¹⁵⁶ However, this language is specific to rebates toward the EVSE for sites supporting transit and school buses.¹⁴⁴¹⁵⁷ We agree with TURN, and find that the release of funds for DACs to serve any location does not fit within the policy objectives of ~~D.18-05-040~~, [SB 350](#), and does not aim to serve the public at large in the same ~~was~~[ways](#) DAC funding would. We therefore find it reasonable to require a modification to this term (Section III (I), Settlement). After 4 years, SDG&E should be authorized to spend any released funds reserved for ~~DACs~~[DAC rebates](#) on locations for sites supporting transit and school buses, regardless of whether the transit and school bus sites are located in DACs. For more discussion on this modification ~~in more~~ please look to Section 6.4.

~~Turning to the Settlement’s DAC definition, we note that SDG&E and the Settling Parties have agreed that any census tracts ranking in the top quartile of the CalEnviroScreen¹⁴⁵~~ [Turning to the Settlement’s DAC definition, the Settling Parties agree to identify what sites qualify as “disadvantaged” by utilizing the DAC definition approved in AL 2876-E.¹⁵⁸ AL 2876-E authorized SDG&E to use its service territory methodology as opposed to the statewide methodology to calculate the number of DACs in SDG&E’s service territory. NDC discusses the](#)

¹⁴³¹⁵⁶ D.18-05-040 at 96.

¹⁴⁴¹⁵⁷ D.18-05-050 at 95.

¹⁵⁸ [AL 2867-E was approved on March 31, 2016 by the Commission’s Energy Division.](#)

deficiencies of SDG&E's service territory DAC definition in comments.¹⁵⁹ Under the service territory approach, 174¹⁶⁰ census tracts would be categorized as "disadvantaged" which, according to NDC, is over five times more than the 33 tracts that would qualify using the statewide approach.¹⁶¹ NDC's recommendation is that SDG&E use the statewide DAC definition, designating as "disadvantaged" only those tracts scoring in the top 25 percent of CalEnviroScreen¹⁶² ~~screening tool within SDG&E's service territory will qualify as DACs for the MD/HD Program. This definition is broader than the statewide DAC definition, which would limit DAC eligibility to census tracts only within the top quartile of CalEnviroScreen across the state. Given the work taken to reach the Settlement, SDG&E is authorized to use the agreement's definition of DAC for the MD/HD considered here, but we note that the broader definition may not be applicable to future utility programs.~~ scores, as the California Environmental Protection Agency (CalEPA) does.¹⁶³ To bolster its argument, NDC points to area code 92113, which contains the most heavily polluted areas in SDG&E's service territory, including the two most disadvantaged tracts scoring in the 96 to 100 percent range of CES scores.¹⁶⁴ Utilizing the CalEnviroScreen

¹⁵⁹ See generally, NDC Comments on Settlement.

¹⁶⁰ In Opening Comments, the Settling Parties provided an update to this figure. The Settling Parties provide that a subsequent update to CalEPA's tool results in 172 census tracts under the service territory approach and 37 tracts using the statewide approach (See Settling Parties Opening Comments at 3).

¹⁶¹ NDC Comments on Settlement at 8 to 9.

¹⁴⁵ ¹⁶² The California Communities Environmental Health Screening Tool identifies California communities by census tract that are disproportionately burdened by, and vulnerable to, multiple sources of pollution and other economic and environmental factors. The tool and further information about its development by the California Environmental Protection Agency is available at <https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-30>.

¹⁶³ NDC Comments on Settlement at 9 and footnote 27.

¹⁶⁴ NDC Comments on Settlement 9.

methodology, tracts in the 92113 area code make up 27 percent of all identified DACs, versus 5 percent under SDG&E's service territory definition.¹⁶⁵ NDC is concerned that Program funds would not go to support area code 92113 and other similar burdened areas if SDG&E uses its service territory methodology for identifying DACs.¹⁶⁶

As stated at the beginning of Section 6, where a settlement is contested, it will be subject to more scrutiny. The issue of what DAC methodology to use for SDG&E's MD/HD Program is one that is subject to more scrutiny not only because of the policy objectives of SB 350, but also due to NDC's compelling figures illustrating the disproportion of which San Diego communities would qualify under the service territory definition. We agree with NDC that in order to prioritize which areas are truly disadvantaged the statewide DAC methodology should be utilized for SDG&E's Program. We modify the DAC definition in the Settlement to the top quartile of communities on a statewide basis, as defined by the California Environmental Protection Agency's CalEnviroScreen 3.0 tool. This modification is consistent with SB 350 and the methodology approved in D.18-05-040 for SCE and PG&E's MD/HD programs.¹⁶⁷

OverallIncorporating the modifications described above, we conclude that the Settlement complies with the applicable law and that nothing in the Settlement contravenes statute or prior Commission decisions. In addition to complying with the applicable statutes of the Public Utilities Code, the Settling

¹⁶⁵ NDC Comments on Settlement at 9.

¹⁶⁶ NDC Comments on Settlement at 9.

¹⁶⁷ D.18-05-040 at 94 to 95.

Parties also complied with Commission Rules of Practice and Procedure, Rule 12, regarding settlements.¹⁴⁶¹⁶⁸

6.3. The Settlement is in the Public Interest

The Commission has found when all active parties in a proceeding reach settlement, that settlement “commands unanimous sponsorship of the affected parties who fairly represent the interests affected by the Settlement.”¹⁴⁷¹⁶⁹

Although the Settlement is not supported by all the active parties to this proceeding, it does reflect a wide range of stakeholder interest, including ratepayer advocates, environmental nonprofits, EV technology innovators, EVSE manufacturers, and the utility applicant. Moreover, the Settlement is consistent with laws, policies and Commission decisions that by their nature are in the public interest.

The Settlement is an important step in increasing the deployment of MD/HD EV infrastructure aimed at advancing TE technology and reducing GHG emissions in SDG&E’s service territory. The Program and Pilot not only aim to help improve air quality in SDG&E’s service territory, with a 30 percent target for DACs, but also strive to stimulate job growth in the EVSP market. SDG&E’s Program and Pilot aim to provide job opportunities via contracting for installation of the charging infrastructure.¹⁴⁸¹⁷⁰ The Program and Pilot also may lead to jobs in the MD/HD EV manufacturing sector.¹⁴⁹¹⁷¹ More job opportunities in the MD/HD EV sector are in the public interest, because these careers are aimed at improving air quality and the advancement of TE.

¹⁴⁶¹⁶⁸ Motion at 3, describing the steps taken for complying for Rule 12.

¹⁴⁷¹⁶⁹ D.17-03-005 at 6 to 7.

¹⁴⁸¹⁷⁰ Exhibit SDGE-2 at 18.

¹⁴⁹¹⁷¹ Exhibit SDGE-2 at 18.

The elimination of utility ownership of the Program's EVSE seeks to minimize overall costs and maximize overall benefits associated with the Program. The make-ready Program is in the public interest not only because it decreases the costs passed to ratepayers but also because it allows for competition amongst EVSE manufacturers. Because Program participants will be free to select charging equipment and network services from any qualified vendor, market participation from EVSE manufacturers should increase given the demand SDG&E's Program aims to create.¹⁵⁰172 Encouraging broad, privately-funded market participation is ~~not only~~ a goal of SB 350 ~~but is also~~ ~~within~~ and ~~promotes~~ the public interest.

The Settlement's terms for splitting the Program's funding into two parts are within the public interest because the tranche mechanism allows for additional Commission oversight in terms of SDG&E meeting certain programmatic milestones.¹⁵¹173 The agreement for SDG&E to file a Tier 2 Advice Letter showing the utility's progress towards the interim and final *per se* reasonable metrics, provides an additional layer of Commission oversight which ensures ratepayer money is being spent appropriately for this program. Such oversight is within the public interest and should be implemented.

We want to acknowledge the work all of the parties did in developing a settlement that not only avoids litigation but is additionally supported by a wide range of stakeholder interest, and is consistent with recent TE Commission decisions.

¹⁵⁰172 Motion at 9.

¹⁵¹173 Settling Parties Joint Reply at 8; Settlement Agreement at Appendix B.

6.4. Recommended ~~Modification~~ Modifications

Before we complete our analysis of the proposed Settlement, there ~~is one~~ ~~section~~ are two modifications¹⁷⁴ we wish to highlight.

Part III (I) of the Settlement states, “Consistent with Ordering Paragraph 41 of D.18-05-040, after the third year of the Program, 50 percent of funds that were reserved for DAC rebates but have not yet been committed to a deployment may be released if SDG&E has not achieved 60 percent of its target in DAC locations and 80 percent of its target in non-DAC locations. Released means that the DAC EVSE rebates may be used in non-DAC locations to accelerate MD/HD EV adoption. Any remaining rebate funds that are unallocated after year 4 may be spent as rebates in any location.” On review, we do not believe this release of funds is consistent with D.18-05-040.

In D.18-05-040, the Commission authorized the release of funds for rebates on EVSE for sites *supporting transit and school bus EVSE* in DACs to be used at any location after 4 years. Although these funds may be spent at any location, reading the dicta in Section 6.3, it is clear such funds are to be utilized at locations supporting transit and school bus EVSE. We therefore do not find Part III (I) to be reflective of D.18-05-040. We modify Part III (I) of the Settlement to specify that any ~~unspent~~ unallocated funds reserved for DAC ~~sites~~ rebates after the fourth year be released to support any location electrifying transit and school buses, including a 50 percent rebate for those sites’ EVSE. We find this modification to be consistent with the Commission’s findings in D.18-05-040, reasonable in light of the whole record and in the public interest. By directing SDG&E to utilize any

¹⁷⁴ Pursuant to Rule 12.4(c) we ask that parties address these alternative terms in comments on the Proposed Decision. Parties should address whether these modifications are acceptable or not.

unspent DAC funds to support those sites that utilize transit and school buses, we ensure that ratepayer funds are being utilized to serve the public interest at large.

Our second modification focuses on the DAC methodology utilized by the Settling Parties. As discussed above, the Settlement's current definition does not capture what areas are truly disadvantaged in SDG&E's service territory. While the Settlement's DAC definition was adopted through a 2016 AL, we agree with NDC's assertions, and adopt their recommendation to apply the statewide methodology utilized by CalEPA's CalEnviroScreen 3.0 tool. By changing the DAC definition in the Settlement to the statewide methodology, ratepayer funds will be utilized to serve those sites which suffer the most from emissions associated with MD/HD vehicles. We do not anticipate this modification will impact SDG&E's ability to meet its target of spending a minimum of 30 percent of its infrastructure budget in DACs. This modification ensures ratepayers are funding infrastructure at locations with the most need. We find this modification in conjunction with the modification for how funds reserved for DAC-specific incremental incentives could be released to be consistent with the Commission's findings in D.18-05-040, reasonable in light of the whole record, and in the public interest.

With ~~this small modification~~ these minor modifications, we conclude that the Settlement should be adopted by the Commission.

6.5. Approval of the Settlement

We reviewed the proposed settlement pursuant to Rule 12.1 (d), as defined above, and find the settlement meets the three criteria of reasonableness, legal consistency, and being in the public interest.

We grant the motion of the Settling Parties to adopt the Settlement, with the ~~slight modification of~~ above modifications to the DAC definition and Section III (I). Accordingly, we approve SDG&E's application, as modified by the Settlement. We authorize cost recovery of \$107.4 million for the Program and \$1.7 million for the Pilot through distribution rates and allocated to customer classes on an equal cents per kWh basis.

7. D.18-05-040 Cost Estimates

The Settling Parties used cost estimates derived from PG&E's approved program budget in D.18-05-040. It is likely those cost estimates are not fully reflective of the costs SDG&E will incur when implementing its program in 2020 and beyond. To ensure transparency and to support the development of future transportation electrification program budgets, we direct SDG&E to track its costs utilizing the line items it submitted during the February 27, 2019 PHC.¹⁵²¹⁷⁵ In order to better understand the costs associated with electrifying the MD/HD sector, we direct SDG&E to report any overages and/or savings on their line item cost estimates to the Commission's Energy Division annually. SDG&E should copy the service list to this proceeding on each annual update. The first budget tracking report will be due with one year of the date of adoption of this decision.

8. Data Gathering Requirements

The Commission will review the results of the Program and Pilot approved in this decision to determine the effectiveness of utility investments in transportation electrification. To facilitate this evaluation, we adopt the same

¹⁵²¹⁷⁵ See Appendix B for cost estimates.

data collection and reporting requirements that D.18-01-024, D.18-05-040, and D.18-09-034 required to ensure standardization in reporting.

SDG&E is required to submit an annual report and a final report for each of ~~Hsits~~ approved projects and serve the reports to the service list for this proceeding. The reports should use the report template and data collection template available on the CPUC website (<http://www.cpuc.ca.gov/sb350te/>) under the “reporting requirements” section of this page.

The templates includes a Microsoft Word document that has report headings and descriptions of the information that should be included in the report. A data reporting template in Microsoft Excel that has several tabs with specific quantitative data fields is also required to be completed by SDG&E with data specific to its program. The file linked at the above webpage contains instructions on how to complete each tab in the Excel spreadsheet. SDG&E should complete this in Excel format along with its qualitative annual and final reports. SDG&E is required to serve its reports to the service list of this proceeding, consistent with the Commission’s direction in prior decisions.

9. Evaluation

Section 740.12(c) requires the Commission to review data concerning current and future TE adoption and charging infrastructure utilization prior to authorizing the utilities to collect new TE program costs. The evaluation process should, at a minimum, investigate and identify the following:

1. Whether the utilities’ TE investments meet the stated purposes of accelerating widespread transportation electrification, reducing dependence on petroleum, meet air quality standards, achieve the goals of the Charge

- Ahead California Initiative, and reduce greenhouse gas emissions.
2. Whether the TE investments maximized benefits and minimized costs.
 3. Learnings from analysis of data collected during program implementation including:
 - a. Infrastructure utilization data;
 - b. Number of incremental electric vehicles adopted;
 - c. Actual costs associated with the electrification of various sectors;
 - d. Actual emissions reductions associated with TE investments; and
 - e. Actual grid impacts associated with TE investments.

D.18-01-024, D.18-05-040, and D.18-09-034 directed the utilities to collectively fund a budget equal to four percent of their total approved project budgets from all ratepayers, to conduct an RFP to hire an evaluator that will review the results of the priority review projects approved in that decision. The decisions further directed PG&E, SDG&E, and SCE to coordinate evaluation efforts with PacifiCorp, Liberty Utilities, and Golden State Water Company (Bear Valley Electric Service Division) to capture economies of scale for purposes of evaluating the utilities' initial transportation electrification programs under SB 350.

In this decision, we direct SDG&E to again contribute four percent of its total approved Program and Pilot budget to support this evaluation effort, which should build-off of and expand upon the evaluation effort already underway for SCE and PG&E's MD/HD SB 350 programs. SDG&E should also work with SCE

and PG&E to ensure any lessons learned in their early MD/HD program implementation are incorporated in SDG&E's implementation plan.¹⁵³¹⁷⁶

As directed in D.18-01-024, SDG&E must submit a Tier 1 advice letter providing a status update on implementation of and data available from the programs authorized in this decision within two years of the date of this decision. Based on the progress of the projects at that time, the Commission will determine whether one evaluation can capture all of the approved projects' results or whether separate evaluations will be needed due to timing or other differences in the data available from the programs. The expectation is for the evaluation efforts specific to SDG&E's MD/HD program to begin within 12 months from the filing of SDG&E's implementation advice letter.

10. Safety Considerations

The Commission's mission to ensure utilities provide safe and reliable service is an overarching focus in the emerging TE industry. Section 740.8 defines the "interests" of ratepayers to mean: direct benefits that are specific to ratepayers consistent with safer, more reliable or less costly gas or electrical service consistent with § 451. The Commission's Safety and Enforcement Division (SED) staff issued a data request to better understand how the utilities are addressing these objectives. Based on the responses, SED staff worked with parties to the SB 350 TE proceedings to develop a Safety Requirements Checklist for the TE programs, available on www.cpuc.ca.gov/sb350te under the "SB 350 TE Reporting Requirements" section of this page.

The Safety Requirements Checklist is intended to consolidate current standards and requirements in one place and to ensure the utility infrastructure

¹⁵³¹⁷⁶ D.18-05-040 at Section 11.

is installed and operated safely and does not adversely affect reliability of electrical service.

No later than 18 months after today's decision is approved, SDG&E must file a Tier 1 Advice Letter describing its efforts to comply with the Safety Requirements Checklist. The Advice Letter must contain an attestation signed by the Project Manager. SDG&E should file a final safety attestation, using the same template developed for the projects approved in D.18-05-040.

The Commission will review utility compliance with the Safety Requirements Checklist and may conduct inspections or audits to confirm compliance. SDG&E must have all compliance documentation available should the Commission determine an inspection or audit is necessary.

11. Categorization and Need for Hearing

In Resolution ALJ 176-3412, the Commission preliminarily categorized this proceeding as ratesetting, and preliminarily determined that hearings were necessary. The March 30, 2018 Scoping Ruling confirmed the categorization as ratesetting and set the time for evidentiary hearings in October 2018. As discussed in Section 1 above, evidentiary hearings were ultimately canceled due to settlement efforts amongst the parties.

12. Comments on Proposed Decision

The proposed decision of Administrative Law Judges (ALJs) Sasha Goldberg and Kelly A. Hymes in this matter was mailed to the parties in accordance with Section 311 of the Public Utilities Code and comments were allowed under Rule 14.3. ~~Filed comments on _____, and _____ filed reply comments on _____.~~

Opening comments were filed on August 5, 2019 by SDG&E (on behalf of the Coalition of California Utility Employees, [Natural Resources Defense Council](#), Center for Community Action and Environmental Justice, East Yard Communities for Environmental Justice, ChargePoint, Electric Motor Werks, CalStart, The Union of Concerned Scientists, Small Business Utility Advocates, Sierra Club, and Siemens)¹⁷⁷, NDC, SCE, SDAP, EDF, Tesla, and TURN. Reply comments were filed on August 12, 2019 by SDG&E (on behalf of EDF, Coalition of California Utility Employees, NRDC, Plug In America, Chanje Energy, ChargePoint, Electric Motor Werks, CalStart, Union of Concerned Scientists, Sierra Club, and Siemens), Cal Advocates, TURN, SDAP, Coalition of California Utility Employees, and the Center for Community Action and East Yard Communities for Environmental Justice. Overall, parties are supportive of the proposed decision, but provided comments on the recommended modifications to the underlying settlement agreement. While clarifying edits have been made throughout the decision, we discuss revisions to the modifications to the proposed settlement below.

12.1. Disadvantaged Community Definition

Parties addressed the modification of the DAC definition SDG&E use to qualify what communities are “disadvantaged” for the Program. The proposed decision provided SDG&E with the option to file an advice letter at the end of three years of program implementation to identify whether the utility is on track to meet its DAC target. SDG&E and NDC both provided comments on this issue.

¹⁷⁷ In reply comments, SDG&E explained EDF was unintentionally not included as a signatory to Opening Comments but should have been listed (SDG&E Reply Comments at 5).

SDG&E's opening comments identified that using the statewide definition reduces the number of DAC census tracts in SDG&E's service territory from 172 to 37, roughly 5 percent of SDG&E's service territory. These parties explain that under the statewide methodology, 30 percent of the Program's infrastructure budget will be focused in 5 percent of SDG&E's service territory. As an alternative, the parties propose the Commission adopt a "hybrid" approach: two-thirds of the 30 percent DAC target will be reserved for sites qualified under the statewide methodology, and one-third of the 30 percent DAC target reserved for sites qualified under SDG&E's service territory definition. SDG&E provides this hybrid approach will make the DAC spending target much more attainable because it increases the number of potentially eligible companies from 688 to 2,681.

Contrary to SDG&E's opening comments, NDC supports the proposed decision's DAC definition methodology, and requests the final decision remove the option for SDG&E to file an advice letter after 3 years of program implementation. NDC explains that the already reduced DAC target (the Settling Parties agreed to a 30 percent DAC target from SDG&E's original 40 percent target) should be easier for SDG&E to achieve. NDC also notes that the high concentration of statewide-defined DACs around transportation corridors where industrial businesses and MD/HD vehicles are most often found, provides many DAC sites where program infrastructure can and should be deployed.

At this time we decline to change the proposed decision's DAC definition. Although fewer locations qualify under the statewide definition, the smaller pool of qualifying sites will focus charging infrastructure in the most disadvantaged communities which are often most heavily impacted by MD/HD vehicle

emissions. We want to see SDG&E's Program succeed, especially in reaching its DAC target, and therefore make a few changes to the advice letter filing process. First, we change the "option" for SDG&E to file an advice letter on its DAC target by making it a requirement. Second, we change the time for filing an advice letter on SDG&E's DAC target to after 2 years of program implementation. Third, we clarify what information SDG&E shall provide to the Commission's Energy Division on its DAC target. This additional information should provide more transparency on what obstacles SDG&E may face in working to meet its DAC target. SDG&E may still request to utilize its service territory definition if the utility ultimately cannot spend 30 percent of its infrastructure budget in DACs under the statewide definition.

12.2. Consistency with D.18-05-040 Findings

Parties addressed a few of the proposed decision's determinations, stating that they are inconsistent with D.18-05-040.

Parties addressed the modification that any unspent DAC rebate funds be released to sites supporting transit and school buses at the end of four years of Program implementation, as opposed to supporting any location. SCE contends the proposed decision *incorrectly* concludes that limiting the release of funds to support only transit and school buses is consistent with D.18-05-040.¹⁷⁸ SCE explains, "the Commission's intent was not to limit unallocated DAC funds to sites for transit and school bus charging, but rather allow those funds to be used for any interested location to benefit the public."¹⁷⁹

¹⁷⁸ SCE Opening Comments at 2.

¹⁷⁹ SCE Opening Comments at 3.

The proposed decision is consistent with the Commission's findings in D.18-05-040 on this issue. By directing SDG&E to utilize any unspent DAC rebate funds to support sites supporting transit and school buses, the set-aside DAC rebate funds will go to support the general public's transportation needs. Directing released DAC rebates to support transit and school buses maintains the same intent for the money as the Commission's findings in D.18-05-040. We do not accept that DAC rebates supporting transit and school buses would not reach the same environmental and health benefits as would DAC rebates supporting any location would. Our decision to maintain the transit and school bus specification on released DAC rebate monies ensures the environmental and public health benefits of electrifying the MD/HD sector are realized, especially for residents of DACs.

TURN questions the proposed decision's approval of provision H in the Settlement.¹⁸⁰ Specifically TURN opposes providing EVSE DAC rebates to "companies on the Fortune 1000 list who allow tenants or other users who are not on the Fortune 1000 list to utilize EVSEs on their premises."¹⁸¹ TURN highlights that D.18-05-040 specifically made companies on the Fortune 1000 list ineligible for MD/HD EVSE rebates, noting that just because a site is located in a DAC does not mean the commercial customer itself is financially disadvantaged.¹⁸² In reply comments, SDG&E explains the Settlement Agreement's language on this issue is an acknowledgement of the complex business models and supply chains that utilize MD/HD vehicles.¹⁸³ SDG&E

¹⁸⁰ Appendix A at 6.

¹⁸¹ TURN Opening Comments at 5 to 6.

¹⁸² TURN Opening Comments at 6; D.18-05-040 at 95.

¹⁸³ SDG&E Reply Comments at 3 to 4.

explains that to ensure appropriate use of EVSE rebate budget, the Settling Parties require SDG&E to work with its Program Advisory Council (PAC) to establish any exception to EVSE rebate rules.¹⁸⁴

While we understand TURN's general position that ratepayers should not subsidize charging infrastructure for large commercial customers, allowing tenants or other users who are not on the Fortune 1000 list does not equate to providing EVSE rebates to Fortune 1000 companies. We trust SDG&E to work with its PAC to ensure that rebates for tenants or other users who are not on the Fortune 1000 list but utilize EVSEs on Fortune 1000 companies' premises are in fact financially disadvantaged. Our decision to utilize unallocated DAC rebate monies for transit and school buses was made also in consideration of TURN's position on the issue of tenants or users of Fortune 1000 companies' premises.

13. Assignment of Proceeding

Clifford Rechtschaffen is the assigned Commissioner and Kelly A. Hymes and Sasha Goldberg are the assigned ALJs in this proceeding.

Findings of Fact

1. Approval of the Settlement and therefore adoption of the Program and Pilot should reduce greenhouse gas emissions in the medium- and heavy-duty transportation sectors in compliance with California climate change laws and policies.

~~2. The modification that any unspent funds initially set aside to support sites in disadvantaged communities go to support the electrification of sites utilizing school buses and transit after the fourth year of the program is consistent with~~

¹⁸⁴ SDG&E Reply Comments at 3 to 4.

~~the Commission's findings in D.18-05-040, reasonable in light of the whole record and in the public interest.~~

~~2. 3.~~ The Settling Parties complied with Commission Rules of Practice and Procedure, Rule 12.

~~3. 4.~~ SDG&E and the Settling Parties derived the program budget using cost estimates developed by PG&E for its January 2017 SB 350 application [17-01-020](#), et al.

~~4. 5.~~ SDG&E's cost estimates were derived from using cost estimates from PG&E's 2017 Application 17-01-022.

~~5. 6.~~ Requiring SDG&E to report overages and/or savings on its cost estimates will increase [oversight](#), transparency and understanding of what it costs to electrify the MD/HD sector.

~~6. 7.~~ Requiring SDG&E to align its medium- and heavy-duty electric vehicle infrastructure program evaluation with the evaluations of SCE and PG&E's MD/HD vehicle electrification programs approved in D.18-05-040 is reasonable.

~~7. [According to NDC, under the service territory approach, 174 census tracts would be categorized as "disadvantaged" which is over five times more than the 33 tracts that would qualify using the statewide approach. A subsequent update to CalEPA's tool results in 172 census tracts under the service territory approach and 37 tracts using the statewide approach.](#)~~

Conclusions of Law

1. As modified, the Settlement is reasonable in light of the record.
2. As modified, the Settlement is consistent with the applicable law.
3. As modified, the Settlement is in the public interest.

4. Consistent with the Commission's findings in D.18-05-040, SDG&E should spend any released funds reserved for ~~DACs~~DAC rebates on locations supporting transit and school buses.

5. The modification that SDG&E utilize the statewide methodology as opposed to the service territory definition for DACs is consistent with the Commission's findings in D.18-05-040, reasonable in light of the whole record and in the public interest.

6. ~~5-~~The Settlement proposed by SDG&E, the Public Advocates Office at the Commission, Natural Resources Defense Council, Environmental Defense Fund, Union of Concerned Scientists, Coalition of California Utility Employees, CALSTART, Small Business Utility Advocates, Electric Motor Werks, Inc., Siemens, ChargePoint, Chanje Energy, Center for Community Action and Environmental Justice, East Yard Communities for Environmental Justice, Plug In American and Sierra Club should be approved and adopted with the additional requirement that SDG&E spend any released funds reserved for ~~DACs~~DAC rebates on sites supporting transit and school buses.

7. ~~6-~~The Settlement proposed by SDG&E, Public Advocates Office at the California Public Utilities Commission, Natural Resources Defense Council, Environmental Defense Fund, Union of Concerned Scientists, Coalition of California Utility Employees, CALSTART, Small Business Utility Advocates, Electric Motor Werks, Inc., Siemens, ChargePoint, Chanje Energy, Center for Community Action and Environmental Justice, East Yard Communities for Environmental Justice, Plug In American and Sierra Club meets the requirements of Commission Rules of Practice and Procedure, Rule 12.

8. ~~7.~~ SDG&E should provide annual reports on program costs and spending given the Settlement's budget was derived using cost estimates from PG&E's 2017 SB 350 Application 17-01-022.

9. ~~8.~~ Consistent with D.18-05-040 and Appendix B to the Settlement, SDG&E's investments in charging infrastructure to serve the medium-and heavy-duty transportation sector should be considered *per se* reasonable if the metrics in Appendix B to the Settlement are met.

10. ~~9.~~ SDG&E should ensure participating customers' load management plans reflect current grid conditions and can be responsive to future grid needs. SDG&E should encourage participating customers to consider enrolling in a commercial electric vehicle time-of-use rate should the one that SDG&E will propose under the Settlement terms be approved by the Commission.

11. ~~10.~~ Application 18-01-012 should be closed.

O R D E R

IT IS ORDERED that:

1. The *Settlement Agreement Regarding San Diego Gas & Electric Company's Medium-Duty and Heavy-Duty Electric Vehicle Charging Infrastructure Program and Vehicle to Grid Electric School Bus Application*, Application 18-01-012, attached as Appendix A to this decision is approved with the modifications outlined in Section 6.4 of this decision.

2. Consistent with the terms and conditions attached as Appendix A and Section 6.4 of this decision, San Diego Gas & Electric Company ~~must~~may also spend any released funds reserved for disadvantaged ~~communities~~community rebates after four years on sites supporting transit and school buses.

3. Consistent with the terms and conditions attached as Appendix A and Section 6.4 of this decision, San Diego Gas & Electric Company (SDG&E) must apply the statewide definition, as defined by the California Environmental Protection Agency's CalEnviroScreen 3.0 tool to identify which top quartile of communities on a statewide basis qualify as disadvantaged communities for its Medium-Duty and Heavy-Duty Electric Vehicle Charging Infrastructure Program. At the end of two years of program implementation, SDG&E shall file a Tier 2 Advice Letter with the Commission's Energy Division that at a minimum addresses: (1) status of its 30 percent disadvantaged community target; (2) how many disadvantaged community sites have signed-up for the Medium-Duty and Heavy-Duty Electric Vehicle Charging Infrastructure Program; (3) how many disadvantaged community sites would have signed-up but do not qualify under the statewide definition; and (4) whether SDG&E is seeking to expand its disadvantaged community definition to the one approved in Advice Letter 2876-E.

4. ~~3.~~The Application of San Diego Gas & Electric Company for Approval of Senate Bill 350 Transportation Electrification Proposals Regarding Medium and Heavy-Duty Electric Vehicles and a Vehicle- to- Grid Electric School Bus Pilot is approved consistent with the terms and conditions set forth in Appendix A and Ordering Paragraphs ~~12~~ and ~~23~~ of this decision.

5. ~~4.~~Prior to implementation, San Diego Gas ~~and~~& Electric Company (SDG&E) must file a Tier 2 Advice Letter with the Commission's Energy Division reflecting the Medium ~~-Duty~~ ~~/and~~ Heavy ~~-Duty~~ Electric Vehicle Charging Infrastructure Program and Vehicle- to- Grid Electric School Bus Pilot terms and conditions contained in Appendix A and Ordering Paragraphs 1 through 3.

SDG&E must incorporate lessons learned from Southern California Edison Company and Pacific Gas ~~&~~ Electric ~~Gas~~ Company's medium-and heavy-duty ~~program~~ programs approved in Commission Decision 18-05-040.

6. Prior to implementation, San Diego Gas & Electric Company shall file a Tier 2 Advice Letter with the Commission's Energy Division to establish two one-way balancing accounts to record the authorized revenue requirement and incremental implementation costs associated with the Medium-Duty and Heavy-Duty Electric Vehicle Charging Infrastructure Program and Vehicle to Grid Electric School Pilot until both programs are fully implemented and the remaining and ongoing costs can be submitted as part of the base margin revenue requirement in a future General Rate Case, which will be recovered from electric customers through distribution rates.

7. 5- San Diego Gas ~~and~~ & Electric Company's (SDG&E) authorized budget for its Medium ~~-~~Duty ~~/and~~ Heavy ~~-~~Duty Electric Vehicle Charging Infrastructure Program (Program) will be considered *per se* reasonable provided: (1) a minimum of 300 make-ready installations are fully contracted after five years of Program deployment and 3,000 additional vehicles are electrified that are directly attributable to the authorized Program and achieved by site hosts procuring at least two electric vehicles or converting at least two diesel fueled vehicles to electric; (2) a minimum of 10 percent of the infrastructure budget serves transit style buses and school buses; (3) a maximum of 10 percent of the infrastructure budget serves forklifts; (4) a minimum of 30 percent of the infrastructure budget results in installations in disadvantaged communities in SDG&E's service territory; (5) rebate levels for beach head sectors and customers in disadvantaged communities should be established in consultation with SDG&E's Program

Advisory Council; 6) rebate levels should not exceed 50 percent of the cost of the charger; and (7) a maximum of 10 percent of the infrastructure budget is spent on program administration.

8. ~~6.~~ San Diego Gas ~~and~~& Electric Company is authorized to recover costs for its Medium ~~-Duty~~/~~and~~ Heavy ~~-Duty~~ Electric Vehicle Charging Infrastructure Program and Vehicle to Grid Electric School Bus Pilot through a charge allocated to customer classes on an equal cents per kilowatt hour basis.

9. ~~7.~~ Prior to implementation San Diego Gas ~~and~~& Electric Company shall file a Tier 2 Advice Letter with the Commission's Energy Division describing how the utility will implement the approved cost recovery method of an equal cents per kilowatt hour basis as approved in Ordering Paragraph ~~6.~~8.

10. ~~8.~~ San Diego Gas ~~and~~& Electric Company (SDG&E) shall track costs associated with its Medium ~~-Duty~~/~~and~~ Heavy ~~-Duty~~ Electric Vehicle Charging Infrastructure Program (Program) and Vehicle to Grid Electric School Bus Pilot (Pilot) utilizing the line items contained in Appendix B to this decision. SDG&E shall report annually on the actual costs of the approved Program and Pilot by filing a Tier 2 Advice Letter with the Commission's Energy Division. SDG&E must report on any overages or savings, relative to the line-item budget agreed to in the Settlement, on the Program and Pilot's cost estimates in the advice letter. This first advice letter is due within one year of the date of adoption of this decision.

11. ~~9.~~ San Diego Gas ~~and~~& Electric Company shall work with participating customers to develop and implement load management plans that reflect current grid conditions and can be responsive to future grid needs.

12. ~~10.~~ San Diego Gas ~~and~~ Electric Company shall contribute four percent of its total approved Program and Pilot budget to support the evaluation efforts described in Section 9 of this decision. Such evaluation efforts should build-off of and expand upon the evaluation effort already underway for Southern California Edison Company and Pacific Gas & Electric Company's approved medium-and heavy-duty programs in Decision 18-05-040.

13. ~~11.~~ San Diego Gas & Electric Company shall submit a Tier 1 Advice Letter to the Commission's Energy Division providing a status update on the implementation of and data available from the authorized Medium-Duty and Heavy-Duty Electric Vehicle Charging Infrastructure Program and Vehicle to Grid Electric School Pilot within one year (12 months) of the date of adoption of this decision. The Tier 1 Advice Letter must include the costs and balances associated with each line item described in the budgets attached in Appendix B to this decision.

14. ~~12.~~ No later than 18 months after the effective date of today's decision, San Diego Gas & Electric Company must file a Tier 1 Advice Letter containing an attestation signed by the Project Manager describing their efforts to comply with the Safety Requirements Checklist made available at <http://www.cpuc.ca.gov/sb350te/>. San Diego Gas & Electric Company must maintain all compliance documentation available should the Commission determine an inspection or audit is necessary.

15. ~~13.~~ Application 18-01-012 is closed.

This order is effective today.

Dated _____, at San Francisco, California.

APPENDIX A

APPENDIX B

Document comparison by Workshare Compare on Wednesday, August 14, 2019
9:57:33 AM

Input:	
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Description	A1801012 Hymes Goldberg Proposed Decision 7.1.19
Document 2 ID	file://d:\MPH\Desktop\A1801012 REV 1 Approving Settlement on Application_.docx
Description	A1801012 REV 1 Approving Settlement on Application_
Rendering set	Standard

Legend:	
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Deletion	
Moved from	
<u>Moved to</u>	
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Format change	
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Inserted cell	
Deleted cell	
Moved cell	
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Padding cell	

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