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Exhibit No.: SDGE-2
Witness: Jimmy Elias

PREPARED DIRECT TESTIMONY OF

JIMMY ELIAS

ON BEHALF OF

SAN DIEGO GAS & ELECTRIC COMPANY

REDACTED - PUBLIC VERSION

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

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PREPARED DIRECT TESTIMONY OF JIMMY ELIAS ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

I. INTRODUCTION

This testimony describes the resources San Diego Gas & Electric Company ("SDG&E") expects to use in calendar year 2026 to provide electric commodity service to its bundled service customers; provides a forecast of the procurement costs that SDG&E expects to record in 2026 to the Energy Resources Recovery Account ("ERRA"), Transition Cost Balancing Account ("TCBA"), Portfolio Allocation Balancing Account ("PABA"), and Local Generation Balancing Account ("LGBA"); provides a 2026 forecast of SDG&E's San Onofre Generating Station ("SONGS") Unit 1 Offsite Spent Fuel Storage Costs; provides a forecast of 2026 total greenhouse gas ("GHG") costs; and provides a 2026 forecast of Tree Mortality Non-Bypassable Charge ("TMNBC") costs. SDG&E witness Ms. Felan uses my forecast of ERRA, Competition Transition Charge ("CTC") and Local Generation ("LG") in developing 2026 revenue requirements for each element. In addition, this testimony provides information that supports SDG&E witness Ms. Wissman's development of the GHG allowance revenue return allocation for non-residential and residential customers, as well as rates for the Green Tariff Shared Renewables ("GTSR") program and the Power Charge Indifference Adjustment ("PCIA"). SDG&E witness Ms. Miller uses the forecasted costs and volumes provided in this testimony to calculate PCIA costs to discuss PCIA treatment and related issues.

A. Summary of Testimony

Section II provides a forecast of the energy requirements that will be required to serve SDG&E's bundled customer load for 2026, as well as forecasts of the supply resources that SDG&E expects to utilize to meet that load in calendar year 2026. The supply resources for the forecasts include: (1) conventional generation resources that are under contract for 2026; (2)

generation resources owned by SDG&E; (3) renewable generation resources that are under contract for 2026; and (4) Qualifying Facilities ("QFs") under the Public Utility Regulatory Policies Act ("PURPA") that are under contract for 2026.

Section III quantifies the costs associated with the resources described in Section II, along with other electric procurement costs that are recorded in ERRA, such as market purchases, California Independent System Operator ("CAISO") charges and portfolio hedging costs. These costs are summarized in Attachment A.

Section IV provides a forecast of the 2026 SONGS Unit 1 Offsite Spent Fuel Storage Costs associated with SDG&E's 20% minority ownership interest in SONGS.

Section V provides a forecast of the 2026 GHG emissions and associated costs, both direct and indirect, incurred in connection with SDG&E's compliance with California's cap-and-trade program. This testimony also provides a forecast of GHG allowance auction revenues.

Section VI provides a forecast of the 2026 TMNBC costs.

Section VII provides a summary of SDG&E's meet-and-confer activities with Community Choice Aggregators in SDG&E's service territory.

Finally, this testimony refers to the following attachments:

Attachment A: SDG&E 2026 ERRA and LG Expenses (CONFIDENTIAL)

Attachment B: SDG&E 2026 Generation Portfolio Delivery Volumes (CONFIDENTIAL)

Attachment C: SDG&E 2026 Renewable Resource Detail

Attachment D: SDG&E 2026 CTC Qualifying Facility Detail (CONFIDENTIAL)

Attachment E: SDG&E Greenhouse Gas Detail (CONFIDENTIAL)

II. 2026 FORECAST OF ENERGY REQUIREMENTS AND SUPPLY RESOURCES

A. Energy Requirements Forecast

The sales forecast utilized in this filing was developed internally by SDG&E witness Mr. Simmerman. This forecast includes the projected load departure of Community Choice Aggregators ("CCA") Clean Energy Alliance ("CEA"), and San Diego Community Power ("SDCP"). Using this forecast and adjusting for direct access load, SDG&E projects that the energy requirements for SDG&E's bundled load for 2026 will be [redacted] gigawatt hours ("GWh"). The 2026 forecast is [redacted] GWh or [redacted] less than SDG&E's forecasted bundled energy for 2025 ([redacted] GWh).

B. Supply Resource Forecast

After determining the amount of energy that SDG&E's bundled load customers will require in 2026, SDG&E developed a forecast of the supply that will meet that demand. To quantify the generation associated with the supply resources, I used the PLEXOS production cost modeling software. Inputs to this model include the characteristics of the various generation resources, including capacity, heat rate, operating constraints, both fixed and variable Operating and Maintenance ("O&M") costs, and other factors that impact each plant's dispatch and generation costs. The natural gas and electric market price forecasts were derived using a recent (March 3, 2025) assessment of 2026 market prices. The model simulates a least-cost dispatch of SDG&E's resource portfolio for every hour of 2026 to serve load. The supply resources fall into the following four categories, each of which is addressed in the next four subsections.

1. SDG&E-Contracted Conventional Generation

- SDG&E has multiple conventional generation resources under contract in its 2026 resource portfolio. These resources are available under a variety of contractual arrangements, including tolling contracts, fixed energy

contracts, and contracts for Resource Adequacy only. The largest of the tolling and fixed energy contracts are:

- the Carlsbad Energy Center Power Purchase Agreement ("PPA") for the output of a 528 MW simple cycle combustion turbine unit;
- the Pio Pico Energy Center PPA for the output of a 336 MW simple cycle combustion turbine unit;
- the Orange Grove PPA for the output of two 48 MW simple cycle combustion turbine units;
- the El Cajon Energy Center PPA for the output of a 48 MW simple cycle combustion turbine unit; and
- the Escondido Energy Center PPA for the output of a 48 MW simple cycle combustion turbine unit.

The forecasted generation for these contracts is detailed in Attachment B and is summarized in Table 1 below

	Table 1: Generation (GWh)		
	2026	2025	Difference
El Cajon Energy Center	[redacted]		
Orange Grove			
Escondido Energy Center			
Pio Pico			
Carlsbad Energy Center			
Total			[1]

[1] Table sums may not total due to rounding.

SDG&E also enters into additional contracts each year to meet its California Public Utilities Commission ("Commission" or "CPUC") Resource Adequacy ("RA") requirements.[2] Under its RA contracts, SDG&E shows this capacity as meeting its RA obligation, but SDG&E does not have rights to the energy or ancillary services from these units. For the 2024 ERRA Forecast proceeding, SDG&E was directed in Decision ("D.") 23-12-021 by the CPUC to use 2023 average of actual RA sales as a basis for forecasting 2024 sales.[3] However, for the 2026 forecast, SDG&E is not held to this methodology.[4] For 2026, SDG&E calculates Modified Cost Allocation Mechanism ("MCAM") sales separately from non-MCAM sales. Per D.23-12-014, MCAM sales are based on contractual amounts, which were amended per advice letter ("AL") 4516-E in September 2024. For non-MCAM sales, SDG&E determined its total monthly position using the CAISO published 2025 monthly Net Qualifying Capacity ("NQC") of each resource in SDG&E's RA portfolio. To determine the capacity necessary to retain for compliance, SDG&E used monthly CEC/CPUC issued compliance requirements for the most constrained hour by month in 2025,[5] applied a 17% Planning Reserve Margin ("PRM"),[6] and included a monthly buffer[7] to determine its required monthly compliance MW's.. Any remaining excess capacity was assumed to be offered for sale to the market, with any amounts not sold classified as unsold.

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[2] California Public Utilities Code Section 380 established the Resource Adequacy program to provide enough resources to the CAISO to ensure the safe and reliable operation of the grid in real time and to provide appropriate incentives for the siting and construction of new resources needed for reliability in the future.

[3] D.23-12-021 at Ordering Paragraph ("OP") 10.

[4] *Id*.

[5] 2025 Coincident Peak Forecast used to determine most constrained hour.

[6] 17% PRM approved in D.24-06-004 at OP 5.

[7] Q1: [redacted] buffer, Q2: [redacted] buffer, Q3: [redacted] buffer, Oct: [redacted] buffer, Nov: [redacted] buffer, Dec: [redacted] buffer

SDG&E assumed it would further sell 50% of this excess RA in Q1, Q2, and Q4, while 100% would be assumed in Q3. For 2026, SDG&E forecasts average monthly MCAM and non-MCAM sales of [redacted] MW and [redacted] MW[8] of RA capacity, respectively. Rulemaking ("R.") 20-05-003[9] established the cost recovery mechanism for the resources in compliance with D.19-11-016,[10] while D.21-03-056[11] establishes the cost recovery mechanism for resources as a result of procurement in R.20-11-003.[12]

2. SDG&E-Owned Dispatchable Generation

SDG&E owns several generation facilities, which it uses to meet its bundled customer load, including the following:

- the Palomar Energy Center ("Palomar"), a 588 MW combined cycle power plant;
- the Desert Star Energy Center ("Desert Star"), a 485 MW combined cycle power plant;
- the Miramar Energy Facility ("Miramar I and II"), consisting of two 48 MW simple cycle combustion turbine units;

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[8] Expected to change for October update based on upcoming solicitations and market conditions

[9] A successor docket to R.16-02-007, this proceeding addressed ongoing oversight of the Integrated Resource Plan ("IRP") planning process and the procurement necessary to achieve the goals set by the Legislature in Senate Bill ("SB") 350 and SB 100, as well as by the Commission in R.16-02-007.

[10] The IRP proceeding, R.16-02-007, issued D.19-11-016, requiring 3,300 MW of procurement by all load-serving entities ("LSEs") within the CAISO for purposes of long-term statewide planning. The decision required at least 50% of the resources to come online by August 1, 2021, 75% by August 1, 2022, and 100% by August 1, 2023.

[11] Electric Reliability proceeding directed the investor-owned utilities ("IOUs") to procure additional resources for the summers of 2021 - 2023; procurement was expanded to include 2024 - 2025 in D.23-06-029.

[12] During August 2020, the Commission instituted the Emergency Reliability Rulemaking Order as a result of extreme heat storms experienced in California.

- the Battery Storage facilities, consisting of El Cajon at 7.5 MW, Top Gun at 30 MW, Fallbrook at 40 MW, Escondido at 30 MW, Melrose at 20 MW, Pala-Gomez at 10 MW, Clairemont at 9 MW, Boulevard at 10 MW, Elliott at 10 MW, Paradise at 10 MW, Fallbrook 2 at 29.6 MW, Kearny ("Kearny South and North"), consisting of two 10 MW facilities, Westside Canal at 131 MW, Westside Canal 2 at 100 MW, and Santee at 10 MW;
- the Cuyamaca Peak Energy Plant, consisting of a 45 MW simple cycle combustion turbine.

These units are dispatched by the CAISO for generation and ancillary services ("A/S") awards based on economic merit.[13] The forecasted generation for these plants for 2026 is detailed in Attachment B and is summarized in Table 2 below:

	Table 2: Generation (GWh)		
	2026	2025	Difference
Palomar	[redacted]		
Desert Star			
Miramar			
Battery Storage			
Cuyamaca			
Total			

3. Renewable Energy Contracts

The 2026 forecast of renewable energy supply from CPUC-approved contracts is 6,417 GWh, which includes 613 GWh of Renewable Energy Credit ("REC") quantities[14] that are

[13] SDG&E's dispatch model considered only generation dispatched for energy and not for A/S because the CAISO co-optimizes market awards between energy and A/S based on the opportunity cost of capacity. Thus, the economic benefit (and ERRA contribution) of using energy for generation is equivalent to using capacity for A/S.

[14] Renewable Energy Credits represent the green attribute of renewable generation and, while they can be purchased independent of physical delivery of generation from the source, they must accompany a delivery of "tagged" physical power to be imported into California.

delivered to SDG&E in conjunction with existing non-renewable imports. This forecast represents an increase of 398 GWh from the 2025 forecast (6,019GWh). The forecasted generation associated with SDG&E's monthly renewable contracts is set forth in Attachment C.

For 2026, SDG&E forecasts it will receive 2,359 GWh of bundled renewable energy under 52 contracts with facilities that generate electricity using wind, solar, biogas, and non-pumped hydro technologies. This number considers forecasted RPS sales for 2026 in the amount of 4,057GWh. Forecasted sales represent a reduction of renewable energy credits to maintain an equivalent RPS compliance position considering CCA load departure and voluntary allocations of RPS resources as designated in R.18-07-003.[15] These sales volumes are estimates only and do not represent specific current or future agreements with counterparties. The forecasted generation for projects that are currently online and operating is based on recent years' generation, and for those projects that will come online or have recently come online and are expected to continue operations in 2026, are derived from generation profiles based on historical data for similar technologies.[16] The forecasted energy mix from these renewable resources is shown in Table 3 below:

	Table 3: Generation (GWh)		
	2026	2025	Difference
Solar	3,628	3,333	295
Wind	1,973	1,831	142
Wind RECs	613	628	(15)
Biogas	192	217	(25)
Other	11	9	1
RPS Sales	(4,057)	(3,872)	(186)
Total	2,359	2,147	212

[15] Based on R.17-06-026 the amount of RPS sales is subject to change.

[16] SDG&E did not include renewable energy quantities or costs associated with the Sustainable Communities Photovoltaic program because costs for this program are not charged to ERRA.

4. Competitive Transition Charge ("CTC") Contracts

In 2026, SDG&E will have approximately 2 MW of CTC capacity under contract, with one QF.[17]

SDG&E's CTC contracts include a combination of must-take and dispatchable resources. For must-take resources, SDG&E is obligated to pay the contract price for all delivered QF generation and schedule it into the CAISO market; SDG&E has no such obligation with dispatchable resources. The forecast of CTC energy supply for 2026 is [redacted]. The forecasted generation for these plants is detailed in Attachment D.

III. 2026 FORECAST OF ERRA EXPENSES

To quantify the costs associated with the supply resources described in Section II, the production cost model also tracks the costs of the economic dispatch. Electric procurement expenses incurred by SDG&E to serve its bundled load are also recorded to the ERRA. These expenses include, among other items, costs and revenues for energy and capacity cleared through the CAISO market, power purchase contract costs, generation fuel costs, market energy purchase costs, CAISO charges, brokerage fees, battery storage optimization costs, and hedging costs.

SDG&E expects to incur $278 million of ERRA costs in 2026,[18] as reflected in Attachment A. This forecast is $111 million less than the $389 million forecasted for 2025.

The above-market costs of all generation resources that are eligible for cost recovery through PCIA rates are recovered in PABA. SDG&E's 2026 PABA cost forecast is $(205)

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[17] The actual number of active QF contracts is over 50, but many of these QF resources only serve on-site load and do not deliver net energy to SDG&E. As a result, these are not included in the production cost model analysis. The one QF referenced above delivers net energy to SDG&E and thus is included in SDG&E's model.

[18] This amount does not include Franchise Fees and Uncollectible ("FF&U"), nor do any of the other figures in my testimony.

million.[19] This compares with a forecast of $(72) million for 2025 filed in the 2025 ERRA forecast proceeding.

The cost forecasts for specific ERRA items are discussed in greater detail below.

A. ISO Load Charges

The CAISO supplies and sells to SDG&E the energy and A/S necessary to meet SDG&E's bundled load requirement. Based on forecasted prices for energy and A/S, SDG&E forecasts [redacted] of ISO load charges for 2026. This cost includes the indirect GHG costs embedded in the market price of energy. GHG quantities and costs are presented in Section V.

B. ISO Supply Revenues

In the CAISO market, all generation from SDG&E's resource portfolio is sold to the CAISO. Based on the market price benchmark for energy, SDG&E forecasts revenues totaling [redacted] for generation sold in 2026.

C. Contracted Energy Purchases

1. Purchased Power Contracts

SDG&E's forecast of total costs for non-renewable power purchase and capacity contracts in 2026 is [redacted]. These costs cover capacity payments and variable generation costs for facilities with which SDG&E has contracts. The largest components in this category are midterm reliability procurement projects totaling [redacted].[20,21] This category also

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[19] In D.07-01-025, the Commission adopted the PCIA methodology for CCA customers. AL 3318-E, effective January 1, 2019, established the PABA to record the "above-market" costs and revenues associated with all PCIA eligible resources by vintage subaccounts.

[20] Resolution E-5277 was approved July 13, 2023 allowing SDG&E to count the utility-owned Westside Canal Energy Storage Project towards its midterm reliability procurement requirements pursuant to D.21-06-035 and modify the project's cost recovery mechanism to PCIA vintage 2021.

[21] AL 4096-E which included three projects: Edward Sanborn, Bottleneck, and Cald was approved January 2023. AL 4189-E which included projects: Yellow Pine Solar Hybrid, Daggett Storage and

includes [redacted] of RA sale transactions to maintain SDG&E's RA compliance position considering CCA load departure in 2026.

2. Renewable Energy Contracts

SDG&E's renewable energy contracts usually contain only an energy payment and no capacity payment. For 2026, SDG&E's renewable energy portfolio will include a cost for all the renewable power delivered based on contract prices and the RECs described in Section II under "Renewable Energy Contracts." All costs associated with these contracts are forecasted to be $367 million for 2026 and are booked to ERRA with above market costs booked to PABA. This includes $284 million of REC sales to maintain an equivalent RPS compliance position considering CCA load departure and allocations according to the VAMO process outlined in R.18-07-003. Attachment C details the renewable projects by technology type, their costs, and forecasted energy deliveries.

Customers who opt into the Green Tariff Shared Renewables ("GTSR") program, which consists of both a Green Tariff ("GT") component and an Enhanced Community Renewables ("ECR") component, pay a subset of the renewable costs.[22] On August 25, 2022, the CPUC issued a ruling that suspended the GT program; as a result, the estimated GT customer usage in 2026 is 0 GWh.[23] The Interim Pool Sales for 2026 are forecast to be zero because forecasted customer usage is lower than the forecasted generation from the Midway and Wister solar

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Nova Power Bank Storage was approved August 2023. AL 4299-E which included one project: Edward Sanborn BESS was approved March 2024.

[22] D.15-01-051 authorizing the GTSR program was approved on January 29, 2015. The GT and ECR components are two separate rate offerings under the GTSR Program accessing different pools of solar resources and with different terms.

[23] GT and ECR usage forecasts were developed using average consumption estimates for each customer class in conjunction with program enrollment targets.

projects. The estimated GT charges include the cost of local solar[24] of [redacted], Grid Management Charges ("GMC") of $1.499/MWh and Western Renewable Energy Generation Information System ("WREGIS") costs of $0.00400/MWh. The estimated total energy procurement cost of GT in 2026 is $0. On September 27, 2024, SDG&E filed a Tier 2 AL to close its ECR program.[25] Therefore, as discussed in the testimony of SDG&E witness Ms. Wissman, SDG&E is not providing illustrative ECR rates in this Application.

3. Competitive Transition Charge ("CTC") Contracts

SDG&E's CTC contracts consist of dispatchable capacity or firm capacity PURPA contracts. These contracts include provisions for both energy and capacity payments. The energy payments for QFs that are under firm capacity PURPA contracts are forecasted using SDG&E's Short-Run Avoided Cost ("SRAC") formula.[26] For the dispatchable contracts, SDG&E pays fuel, variable O&M and capacity payments. These contracts, whether PURPA or dispatchable, are considered CTC contracts and the ERRA expenses are based on CAISO revenues. This method was approved in D.24-12-040, and full details are discussed in the testimony of SDG&E witness Ms. Felan. Any costs, including capacity payments, greater than the market price benchmark are booked to the TCBA. For the purposes of ERRA accounting, ERRA expenses for CTC contracts are recorded on Line 7 of Attachment A, "Contract Costs (CTC up to market)," and are forecasted to be [redacted] in 2026. Attachment D details the breakdown of all the units discussed in this section and shows the associated costs, both ERRA

[24] Cost of local solar is an average price of projects built specifically to serve the GT component (GT Dedicated Procurement Projects).

[25] AL 4522-E, approved on October 27, 2024.

[26] The derivation of the SRAC price for QF contracts is posted monthly on an SDG&E website: http://www2.sdge.com/SRAC/.

and TCBA, and the forecasted energy deliveries. These costs include the indirect GHG cost embedded in the market price that flows through the SDG&E SRAC formula. GHG quantities and costs are presented in Section IV of this testimony.

D. Generation Fuel

1. Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA)

For 2026, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be [redacted].[27] These forecasted expenses include in lieu of gas fees for Palomar, which are also recovered in ERRA. These costs are calculated based on SDG&E's forecasted fuel usage for this plant and the applicable tariffs, Schedule GP-SUR[28] and Schedule EG.[29]

E. Local Generation

As previously noted, SDG&E has entered into contracts for generation resources which specifically provide local RA for the SDG&E system, and has additionally procured several energy storage units that it owns. Because these contract costs and energy storage unit costs are allocated to both bundled and unbundled customers, the costs are accounted for in a separate Local Generating Balancing Account. The Carlsbad Energy Center, El Cajon Energy Storage, Top Gun Energy Storage, Fallbrook Energy Storage, Escondido Energy Center, Escondido Energy Storage, Melrose Energy Storage, Pala-Gomez Creek Energy Storage, Pio Pico, Grossmont, a portion of Sentinel Energy Center, Clairemont, Boulevard, Elliot, Paradise,

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[27] Capital and non-fuel operating costs for these plants are recovered in the Non-Fuel Generation Balancing Account ("NGBA") as required by D.05-08-005, Resolution E-3896 and D.07-11-046.

[28] Customer-procured Gas Franchise Fee Surcharge

[29] Natural Gas Intrastate Transportation Service for Electric Generation Customers.

Santee, Westside Canal Storage 2, and Fallbrook Energy Storage 2 contracts are included in this balancing account and are expected to cost [redacted], net of supply ISO revenue. Attachment A details the breakdown of local generation expenses.

F. Integrated Resource Planning and Electric Reliability Procurement Tracks

The IRP proceeding, R.16-02-007, issued D.19-11-016, requiring 3,300 MW of procurement by all LSEs within the CAISO for purposes of long-term statewide planning. The decision required at least 50% of the resources to come online by August 1, 2021, 75% by August 1, 2022, and 100% by August 1, 2023. The Commission determined that SDG&E is responsible for 292.9 MW of incremental procurement beyond the State's existing portfolio of resources. SDG&E may also be responsible for incremental procurement of LSEs in its service territory that fail to procure, whether by choice or by consequence, their allocation of the total procurement need identified. This "on-behalf-of" procurement is additive to the IOU procurement for its own share of the identified need. In D.19-11-016, the Commission ordered cost recovery for this "backstop" procurement through a MCAM mechanism. Until the Commission adopted the cost recovery for procurement undertaken in D.19-11-016, SDG&E requested that the Commission authorize SDG&E to establish a new memorandum account, the Resource Adequacy Procurement Memorandum Account ("RAPMA"), to track and record costs related to the procurement of incremental RA capacity required by D.19-11-016 and related administrative costs.[30] Resolution E-5241, approving SDG&E's rate implementation plan to recover procurement costs associated with MCAM, was issued January 2023. Therefore, this 2026 forecast does not have any forecasted dollars in RAPMA.

[30] Advice Letter 3707-E.

The Integrated Resource Plan (R.20-05-003) issued Decision D.21-06-035 requiring all LSEs in the CAISO to procure a total of at least 11,500 MW of NQC. The decision requires 2,000 MW by 2023, an additional 6,000 MW by 2024, an additional 1,500 MW by 2025, and an additional 2,000 MW by 2026. The Commission determined that SDG&E is responsible for 361 MW of incremental procurement beyond the State's existing portfolio of resources. Due to updated load departure forecasts since the decision, SDG&E filed advice letter 3967-E requesting an adjustment to the capacity requirements to ensure both SDG&E and SDCP's respective obligations more accurately account for expected load migration. SDG&E and SDCP mutually agreed and requested Commission approval to increase SDG&E's total procurement obligation by 114.3 MW and correspondingly decrease SDCP's obligation by the same amount. SDG&E's new procurement requirement would be 475.3 MW. Any procurement resulting from the Commission's Order must be requested via advice letter outlining details of the resource and cost recovery methods. SDG&E requested approval for four advice letters, AL 4096-E, AL 4189-E, AL 4299-E, and AL 4182-E. AL 4096-E which included three projects: Edward Sanborn, Bottleneck, and Cald was approved January 2023. AL 4189-E which included four projects: Yellow Pine Solar Hybrid, Luna Valley Solar, Daggett Storage and Nova Power Bank Storage was approved August 2023. AL 4299-E which included one project: Edward Sanborn Battery Energy Storage System ("BESS") was approved March 2024. AL 4182-E included one project: Westside Canal Storage Project and was approved in March 2023. LSEs were not given the opportunity to opt out of this procurement, and procurement costs as a result of this decision are allocated to bundled customers through PCIA. However, the IOUs are designated as backstop procurers in the event an LSE fails to reach its targets, and any backstop procurement

costs SDG&E incurs for deficient LSEs are authorized to be recovered through the MCAM cost recovery mechanism.

In the Electric Reliability proceeding (R.20-11-003), D.21-03-056 directed the IOUs within the CAISO to procure additional resource capacity for the summers of 2021 and 2022. In subsequent decisions (D.21-12-015 and D.23-06-029), the IOUs were directed to procure additional resource capacity for the summers of 2022, 2023, 2024, 2025. These decisions authorized the IOUs to seek CAM cost recovery for any resulting procurement. SDG&E requested approval for advice letter 4290-E, which included two projects: Fallbrook Energy Storage 2, and Santee BESS, advice letter 4556-E, which included Westside Canal Storage 2, advice letter 3992-E, which included four projects: Clairemont, Paradise, Boulevard, and Elliot, and advice letter 3913-E, which included three projects: Pala-Gomez, Melrose, and Westside Canal Storage Project. AL 4290-E was approved December 2023, AL 4556-E was approved November 22, 2024, AL 3992-E was approved June 2022, and AL 3913-E was approved February 2022. Westside Canal Storage Project was later adjusted in AL 4182-E to comply with IRP procurement as mentioned above.

G. CAISO Related Costs

SDG&E forecasts the miscellaneous CAISO costs to be [redacted] in 2026. SDG&E also forecasts the cost of the Federal Energy Regulatory Commission ("FERC") Fees and Western Renewable Energy Generation Information System to be [redacted] in 2026.

H. Hedging Costs & Financial Transactions

SDG&E's resource portfolio has substantial exposure to gas price volatility because of fuel requirements for its gas-fired resources, as well as the gas price-based pricing formula for its QF contracts. To manage this exposure, SDG&E engages in hedging activity, consistent with its

CPUC-approved procurement plan,[31] and it will book the resulting hedging costs and any realized gains and losses from hedge transactions to ERRA consistent with its CPUC-approved hedge plan. The estimate of hedging costs for 2026 is [redacted], calculated as the mark-to-market profit/loss of hedges already in place. The profit/loss of these and future hedges placed will rise and fall with market prices. Therefore, the final cost or savings will not be known until the settlement process has been completed for the hedging transactions. SDG&E's hedging costs were as of March 3, 2025.

SDG&E may also trade short-term financial power products to hedge its long or short position against potentially volatile CAISO market clearing prices. SDG&E does not include a forecast of net cost or benefit from these power hedges due to the unpredictability of market prices relative to the price of the hedges.

I. Convergence Bids

SDG&E uses convergence bids[32] to hedge certain operational risks in the day-to-day management of its portfolio. It is not possible to forecast the gains or losses associated with potential convergence bidding activity because of the unpredictable relationship between day-ahead and real-time prices. Therefore, SDG&E did not forecast an ERRA revenue/charge for convergence bids.

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[31] SDG&E's 2014 Long-Term Procurement Plan (October 3, 2014), Appendix B: Electric and Gas Hedging Strategy, *available at* https://docs.cpuc.ca.gov/PublishedDocs/Efile/G000/M147/K780/147780628.PDF .

[32] A convergence bid (also known as a virtual bid) is not backed by any physical generation or load and is thus completely financial. Convergence bidding allows market participants to arbitrage expected price differences between the Day-Ahead and Real-Time markets. Using convergence bids, market participants can sell (buy) energy in the Day-Ahead market, with the explicit requirement to buy (sell) that energy back in the Real-Time market, without intending to physically consume or produce energy in Real-Time. Convergence bids that clear the Day-Ahead market will either earn (or lose) the difference between the Day-Ahead and Real-Time market prices at a specified node multiplied by the megawatt volume of their bids.

J. Congestion Revenue Rights ("CRRs")

Market participants, including SDG&E, were allocated CRRs by the CAISO for which they can nominate source and sink P-nodes[33] to match those in their portfolio. If congestion arises between the source and sink P-nodes, the CAISO will pay the market participant holding the CRR the congestion charges to offset the congestion costs incurred. SDG&E expects its CRRs to generate revenues from the CAISO to offset congestion costs incurred within its portfolio. However, expected revenues were not included in the 2026 ERRA forecast because SDG&E assumed congestion-free clearing prices to develop forecasts for load requirement costs and generation revenues. A forecast of CRR revenues would have required SDG&E to forecast offsetting market-congestion prices at various P-nodes over the 2026 period. Since there are no forward market prices for congestion, there does not exist a strong basis to perform this forecast without introducing complexity and additional uncertainty into the forecast.

Market participants, including SDG&E, are offered the ability to purchase CRRs through an auction process. SDG&E may elect to participate in the annual and monthly auction processes to procure the incremental CRRs. Since the incremental CRRs volumes cannot be forecasted, the incremental CRR costs and revenues also cannot be forecasted.

K. Inter-Scheduling Coordinator Trades ("IST")

In the CAISO market, SDG&E may transact ISTs[34] bilaterally with counterparties to hedge long or short positions. Under an IST purchase, SDG&E pays the counterparty the contracted energy price and in return receives payment from the CAISO based on the market

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[33] The source and the sink are the two ends of a path for which congestion may occur. The CRR represents the difference in the Marginal Cost of Congestion component of the Locational Marginal Prices for the Nodal Prices of the source and sink.

[34] ISTs are financial bilateral transactions which allow SDG&E to hedge long or short price positions in the market.

clearing price. Under an IST sale, SDG&E receives payment from the counterparty based on the contracted energy price and in return pays the market clearing price to the CAISO. For IST purchases and sales, the payment to, or revenue from, the counterparty is largely offset by the respective credit from, or payment to, the CAISO. Because ISTs are used as a hedge against unknown market prices, SDG&E does not include a forecast of the net cost or benefit from these transactions.

IV. SONGS UNIT 1 OFFSITE SPENT FUEL STORAGE COSTS

A. Background

SONGS Unit 1 ceased operation on November 30, 1992. Defueling was completed on March 6, 1993. On July 18, 2005, SDG&E submitted AL 1709-E, which removed SONGS Unit 1 shutdown O&M expense from the revenue requirement pursuant to D.04-07-022. Southern California Edison Company ("SCE"), the majority owner of SONGS, has decommissioned the Unit 1 facility, and as of 2010, most of the Unit 1 structures and equipment have been removed and disposed of.

Spent fuel assemblies from SONGS Unit 1 have been stored since 1972 at the General Electric-Hitachi spent fuel storage facility located in Morris, Illinois. There are 270 spent fuel assemblies from SONGS Unit 1 currently in storage at that facility. Because there are no other facilities currently available in the U.S. for the commercial storage of spent nuclear fuel, those 270 assemblies are expected to remain at the Morris facility until they are accepted for ultimate disposal by the U.S. Department of Energy. Pursuant to the terms of the storage contract with General Electric-Hitachi, payments are made monthly by SCE, which in turn bills SDG&E for its 20% ownership share.

B. 2026 Forecast

SDG&E estimates its 2026 SONGS Unit 1 offsite spent fuel storage expense to be $0. On February 28, 2022, SDG&E filed A.22-02-016 which requested retaining the Department of Energy ("DOE") Spent Fuel Litigation Proceeds in its Unit 1 Non-Qualified Nuclear Decommissioning Trust ("NQNDT"), and to use these proceeds to fund GE-Hitachi spent fuel storage expenses and suspend recovery of these charges through ERRA. On August 5, 2024, the Commission issued its Final Decision granting SDG&E authorization to deposit DOE litigation proceeds in its Unit 1 NQNDT and to use the proceeds to pay for the costs of the spent fuel at the GE-Hitachi facility. SDG&E will start paying for GE-Hitachi facility Unit 1 spent fuel costs from its Unit 1 NQNDT beginning in 2025.[35]

V. 2026 FORECAST OF GHG COSTS

In this section, my testimony describes the cost forecast for GHG compliance obligations under the California Air Resources Board ("CARB") cap-and-trade program. The cap-and-trade program provides that compliance obligations in the electricity sector are applicable to "first deliverers of electricity."[36] Generally, first deliverers of electricity in 2026 are electricity generators inside California that emit more than 25,000 metric tons ("MT") of GHG, and importers of electricity from outside of California. SDG&E is the first deliverer for its utility-owned generation, for generation it purchases under third-party tolling agreements in California, and for its imports of electricity into California. The cost of allowances and offsets is a direct GHG cost. In Section V.A below, this testimony addresses the direct GHG compliance costs

[35] D.24-08-001, Conclusions of Law ("COL") 12.

[36] CARB, Article 5: California Cap on Greenhouse Gas Emissions and Market-based Compliance Mechanisms, at 60, Section 95811(b), *available at* https://ww2.arb.ca.gov/sites/default/files/barcu/regact/2018/capandtrade18/ct18fro.pdf,

associated with SDG&E utility-owned generation plants, procurement of electricity from third parties under tolling agreements, and electricity imports attributed to SDG&E.

SDG&E customers also face a second type of GHG compliance cost – indirect costs. Indirect costs are costs embedded in market electricity prices, or costs that SDG&E incurs from third parties under contracts. The party selling the power is responsible for the GHG allowance acquisition, but it implicitly charges SDG&E for the cost of acquiring allowances. In Section V.B below, indirect GHG costs are addressed. Section V.C describes the calculation of both direct and indirect 2026 GHG costs. Finally, Section V.D discusses the 2026 allowance auction revenues and the allocations of those revenues.

A. Direct GHG Emissions

Each first deliverer of electricity within California must surrender to CARB one allowance or offset for each MT of carbon dioxide emissions or its equivalent (CO_2e). Under CARB's first deliverer approach, SDG&E will have a direct compliance obligation for GHG emissions from burning natural gas at facilities in its portfolio, including carbon dioxide, methane, and nitrous oxide. SDG&E's expected direct GHG compliance costs were forecasted using the same production simulation model results that produced the ERRA expenses discussed above. The amount of fuel needed for each natural gas fired plant is provided as an output based on the expected operation of the plant, including fuel associated with starts. The fuel volume is then multiplied by an emissions factor of 0.05307 MT of CO_2e per MMBtu to calculate direct emissions obligations for each plant.[37] The forecast of GHG emissions from SDG&E facilities in 2026 is included in Table 4 below.

[37] CARB's Mandatory Reporting Regulations requires use of emission factors from federal regulations - 40 Code of Federal Regulations ("C.F.R.") Section 98. For pipeline natural gas, there are three components – CO2, CH4, and NO2. Using Tables C-1 and C-2 from 40 C.F.R. Subpart C, Section 98

Similarly, the estimated emissions for tolling agreements are estimated by multiplying the forecast of MMBtu of natural gas burned from the production simulation by the emission factor of 0.05307 MT of CO_2e per MMBtu. Table 4 below provides the forecast of GHG emissions from generators that are under tolling agreements with SDG&E in 2026.

In addition, SDG&E imports out-of-state electricity to a delivery point inside California, and it is thus responsible for the GHG emissions attributed to generation of that electricity. There are three categories of GHG emissions associated with imports.

First, there are imports from "specified sources" (*i.e.*, imports where the source of the power is known), which consist of either a specific plant or an asset-controlling supplier.[38] Accordingly, power from SDG&E's Desert Star combined-cycle generation plant in Nevada, for example, is included on the same basis as SDG&E's other utility-owned facilities—multiplying the forecast of MMBtu of natural gas burned from the production simulation by the emission factor of 0.05307 MT of CO_2e per MMBtu.

Second, imported power from "unspecified sources" is multiplied by an estimated transmission loss factor of 1.02[39] to estimate the MWh related to emitting generation from unspecified electricity imports. The quantity is multiplied by the CARB default emission rate, which is 0.428 metric tons of CO_2e per MWh. For any market purchases of energy, 2.5% of the total purchased power is considered to be an unspecified power import with direct GHG emissions.

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we calculate an overall emissions rate of 0.05307 MT/MMBtu. SDG&E's portfolio of GHG emitting resources uses only natural gas, not other fuels.

[38] SDG&E currently does not have any contracts with asset-controlling suppliers such as the Bonneville Power Administration or Powerex. CARB assigns an emissions factor based on the entire portfolio for these suppliers.

[39] Transmission losses on SDG&E's system are measured at approximately 2% of load requirement.

The emissions of imported power are shown in Table 4 below. Monthly emissions for all categories are summarized in Attachment E.

B. Indirect GHG Emissions

In addition to the direct GHG costs described above, the cap-and-trade program results in GHG compliance costs being embedded in the market price of electricity procured in the wholesale market and from third parties. The cost to purchase electricity from the wholesale market, as well as from suppliers under contracts that include market-based prices, will have these embedded costs of compliance with the cap-and-trade program built into the electricity price. The compliance instrument will be procured by the first deliverer, rather than by SDG&E, as purchaser. SDG&E's expected indirect GHG compliance costs are based on an assumption that all power sold by SDG&E-controlled assets are used by SDG&E customers, up to the level of the forecasted SDG&E load.[40] If the total CAISO market purchases exceed the MWh from SDG&E-controlled generation, then the assumption is that SDG&E entered into market purchases to cover this difference. To estimate the GHG emissions embedded in these net CAISO market purchases, SDG&E used the CARB's default emissions rate, which is 0.428 MT per MWh, and considers 97.5% of the total purchased energy to contain indirect GHG emissions after multiplying by an estimated transmission loss factor of 1.02. The rest is considered as imported power with direct GHG emissions as described earlier.

In addition to market purchases, contracts with some Combined Heat and Power ("CHP") facilities are included as indirect costs. Specific CHP contracts require payments based on a

[40] In fact, however, the generation is bid into the CAISO market and dispatched by CAISO to meet statewide needs. The simplifying assumption is used to calculate net CAISO market purchases – all CAISO purchases less all resources that are forecasted to successfully bid into the CAISO market by SDG&E, including imports. However, SDG&E does make an adjustment for expected sales of renewable energy beyond regulatory requirements.

market electricity price (with embedded GHG costs), or a fixed heat rate with the GHG cost based on the contract heat rate; or in other cases, a reimbursement of GHG expenditures incurred by the CHP facility associated with sales to SDG&E. These contracts represent a second source of indirect GHG costs in that the CHP owner acquires GHG compliance instruments.

Contractual GHG costs do not provide a good estimate of actual GHG costs. Accordingly, determining actual GHG costs is difficult because it requires knowledge of confidential counterparty data and the choice of method used to split the GHG emissions between electricity production and useful thermal energy. For simplicity, SDG&E estimates GHG costs associated with CHP on the assumption that the CHP units, on average, are as efficient as unspecified power, assigning a 0.428 MT per MWh emissions rate to all purchases of power from CHP facilities.

Finally, SDG&E forecasts REC sales to maintain an equivalent RPS compliance position considering CCA load departure in 2026 and allocations according to R.18-07-003. REC sales remove the GHG-free attribute of the renewable resource generation. To estimate the GHG emissions of the unbundled renewable generation, SDG&E treats this the same as imported power from unspecified sources. The GHG emissions from indirect sources are summarized on an annual basis in Table 4 below and monthly in Attachment E.

Table 4: 2026 GHG Total Emissions Forecast		
Resource	**Fuel (000 MMBtu)**	**GHG (000 Metric Tons)**
Palomar - UOG	[redacted]	
Desert Star - UOG - Out of State		
Pio Pico - PPA		
Carlsbad Energy Center - PPA		
Miramar - UOG		
Yuma - PPA Out of State		
Fuel-Based		
	Generation (GWh)	**GHG (000 Metric Tons)**
Imports	[redacted]	
Total Direct Emissions		

Resource	**Generation (GWh)**	**GHG (000 Metric Tons)**
Net Market Purchases	[redacted]	
Unbundled RPS after REC Sales		
CHP (CP Kelco)		
Total Indirect Emissions		
Total Forecasted Emissions		

C. 2026 GHG Costs

The proxy for the 2026 GHG emissions price is calculated as $33.6/MT. This figure was derived using a recent (March 5, 2025) assessment of 2026 GHG market prices based on the forward prices on the Intercontinental Exchange ("ICE"), consistent with the forecasted natural gas and electricity prices associated with the forecast of emissions in Table 4 above. The GHG cost forecast multiplies the expected emissions, both direct and indirect, by the forecasted proxy GHG price resulting in forecasted GHG costs for 2026 of [redacted], with [redacted] of direct GHG costs in LGBA, [redacted] of direct GHG costs in PABA, and [redacted] of indirect GHG costs.

D. 2026 Allowance Auction Revenues

The CARB allocates cap-and-trade allowances to SDG&E for 2026. SDG&E is required to place all these allowances for sale in CARB's 2026 quarterly auctions. The forecast of allowance revenues was developed by multiplying the total number of allowances allocated to SDG&E for consignment by a forecast price for the allowances.[41]

The total allowances that will be allocated to SDG&E for 2026 are expected to be 6,208,750 MT. SDG&E's Forecast 2026 Allocated Allowances (MT) represents the SDG&E allocation as established in Table 9-4 of the Cap-and-Trade regulation. This new quantity is reflected in the forecast column within Appendix G template D-1. The allowance price is the same proxy price as used in the calculation of GHG costs, which is $33.6/MT. The allowance auction revenue forecast is the allowances allocated multiplied by the allowance price, which totals $208.5 million.

A portion of the allowance auction revenue is reserved for clean energy and energy efficiency projects initiated by the Solar on Multifamily Affordable Housing ("SOMAH") Program.[42, 43] This program provides financial incentives for installation of solar energy systems on multifamily affordable housing properties, as specified in the statute. For 2026, the funding

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[41] It was assumed that all allowances are sold in the auction process, which is consistent with the assumption that the market-clearing price is above the price floor.

[42] D.17-12-022, OP 4, at 69, states that the IOUs "each shall reserve 10% of the proceeds from the sale of greenhouse gas allowances defined in Public Utilities Code Section 748.5 through its annual Energy Resource Recover Account (ERRA) proceedings for use in the Solar on Multifamily Affordable Housing Program, starting with its ongoing 2018 ERRA forecast proceeding."

[43] On May 13, 2022, SCE filed a Petition for Modification of D.17-12-022 (issued in R.14-07-002) seeking to change the allocation to 10%, not to exceed $1 million statewide. On September 15, 2022, the Commission adopted D.22-09-009, which modified D.17-12-022 and D.20-04-012, changing the funding requirements for the SOMAH program. The IOUs are now required to set aside 10% or their proportionate share of $100 million, whichever is less, of the proceeds from the sale of GHG allowances.

amount is $12.0 million, which is the lesser of 10% of SDG&E's total forecasted allowance revenue amount or SDG&E's proportionate stateside share of $100 million.[44] Any true-ups for allowance revenues set aside for clean energy and energy efficiency projects are addressed in the testimony of SDG&E witness Ms. Felan.

D.18-06-027 (issued on June 22, 2018), adopted new programs to promote the installation of renewable generation among residential customers in disadvantaged communities ("DACs") including the Single-family Solar Homes ("DAC-SASH").[45] SDG&E shall fund this program first through available GHG allowance revenues proceeds and if such funds are exhausted, the program will be funded through public purpose programs ("PPP") funds.[46] SDG&E estimates the DAC-SASH program funding for 2026 to be $1.12 million.

VI. 2026 FORECAST OF TMNBC COSTS

The cost forecast for tree mortality-related procurement costs for 2026 is [redacted].[47] The TMNBC costs will be recovered through the PPP charge, as addressed in the testimony of SDG&E witness Ms. Wissman.

This concludes my updated direct testimony.

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[44] D.20-04-012, issued on April 23, 2020, continues authorization of allocation of funds to the SOMAH program through June 30, 2026.

[45] D.18-06-027 at OP 1.

[46] D.18-06-027 at OP 8.

[47] Per D.18-12-003, SDG&E filed Advice Letter 3343-E requesting approval to establish TMNBCBA as directed by Resolution E-4770 and Resolution E-4805.

VII. QUALIFICATIONS

My name is Jimmy Elias. My business address is 8315 Century Park Court, San Diego, CA 92123. I joined SDG&E in July 2015 and my current title is Senior Resource Planner in the Electric & Fuel Procurement Department. My responsibilities include running computer models that forecast energy needs for both physical and financial operational needs.

I received a B.S. in Finance from San Diego State University in San Diego, CA.

I have previously testified before the California Public Utilities Commission.

ATTACHMENT A

(CONFIDENTIAL)

SDG&E 2026 ERRA AND LG EXPENSES

PRIVILEGED AND CONFIDENTIAL PURSUANT TO P.U.C. CODE 583, 454.5(G), GO 66-D AND D.06-06-066 as needed

ATTACHMENT A

PRIVILEGED AND CONFIDENTIAL PURSUANT TO P.U.C. CODE 583, 454.5(g), GO 66-C and D.06-06-066 as needed

ATTACHMENT A - SDG&E 2026 ERRA and LG EXPENSES

	EXPENSES ($)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2026
2	ISO Load Charges (Energy & A/S Costs)													
3	ISO Charging cost for Modified CAM resources													
4	ISO Supply Revenues													
5	ISO Supply Revenues for Modified CAM resources													
6	Contract Costs (non-CTC)													
7	Contract Costs (CTC up to market)													
8	Generation Fuel													
9	CAISO Misc Costs													
10	Hedging Costs & Financial Transactions													
11	Contract Costs - CHP Costs (AB1613)													
12	Customer Incentives - SPP, DR,20/20													
13	Rewards/Penalties - Palomar Energy Ctr													
14	WREGIS Costs													
16	ISO CRRs Costs													
17	ISO Convergence Bidding Costs													
18	Purchased Tradable Renewable Energy Credits (TRECs)													
19	Sales Tradable Renewable Energy Credits (TRECs)													
20	Net Surplus Compensation Costs (AB920)													
21	Authorized Disallowances													
22	Greenhouse Gas & Carrying Costs													
	Total ERRA/PABA Balancing Account Expenses													
	PABA Portion of ERRA Expenses													

Line 4 Contract Costs (non-CTC)
El Cajon Energy Center Peaker Costs
Orange Grove Peaker Costs
Olivenhain Hydro
Other RA Capacity Costs (RA RFO, DRAM)
Cald BESS LLC
Ormat Bottleneck
Westside Canal Storage
Edwards Sanborn Hybrid Storage
Dagget Power Bank Storage
Yellow Pine Solar III Storage
Starlight Hybrid
Edward-Sanborn BESS
Nova Power Bank Storage
Modified CAM PABA portion contract costs
Modified CAM PABA portion RA Sales
RA Sales
REC Sales
CFD Revenues
Renewable Energy
Line 4 Total

Line 6 Generation Fuel
Palomar
Desert Star
Miramar
Miramar 2
Cuyamaca
Line 6 Total

In Lieu Gas Fees
Palomar

Line 8 Hedging Costs & Financial Transactions
Hedging Costs
Broker Fees
Line 8 Total

LG Expenses
Carlsbad Energy Center
El Cajon Energy Storage
Top Gun Energy Storage
Fallbrook Energy Storage
Escondido Energy Center
Escondido Energy Storage
Melrose Energy Storage
Pala-Gomez Creek Storage
Pio Pico
Grossmont
Sentinel Energy Center RA
Clairemont
Boulevard
Elliot
Paradise Substation
Santee BESS
Fallbrook Energy Storage 2
Westside Canal Storage 2
LG Revenue
LG RA sales revenue
CAM portion of Modified CAM contracts
Emissions
Total LG Expense

ATTACHMENT B

(CONFIDENTIAL)

SDG&E 2026 GENERATION PORTFOLIO DELIVERY VOLUMES

PRIVILEGED AND CONFIDENTIAL PURSUANT TO P.U.C. CODE 583, 454.5(g), GO 66-C and D.06-06-066 as needed

ATTACHMENT B - SDG&E 2026 GENERATION PORTFOLIO DELIVERY VOLUMES (GWh)

	1	2	3	4	5	6	7	8	9	10	11	12	
	Jan	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**2026**
CTC													
Non-CTC QF													
TOTAL													
Renewable - Bio Gas	16.7	15.1	16.4	16.2	13.3	16.1	16.6	16.7	16.2	16.7	15.9	16.7	**192.5**
Renewable - Other	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	**2.1**
Renewable - Solar	205.2	236.7	278.6	327.0	376.4	377.5	362.0	344.5	312.1	295.1	233.7	196.2	**3,545.0**
Renewable - Wind	151.2	146.7	210.6	198.3	242.9	213.4	155.0	129.2	129.2	120.7	148.4	127.1	**1,972.6**
Renewable - Wind REC	70.0	66.1	48.9	55.0	46.1	42.1	31.9	32.0	35.1	48.2	71.4	66.3	**613.0**
Midway-Green Tariff-EcoChoice	4.9	6.0	7.0	7.6	8.3	8.5	8.3	8.2	7.2	6.8	5.6	4.6	**83.0**
Renewable - RPS Sales	(279.8)	(306.9)	(358.2)	(377.5)	(431.1)	(412.5)	(361.4)	(337.8)	(324.1)	(311.3)	(300.2)	(256.3)	**(4,057.2)**
TOTAL NON-CTC RENEWABLE	**168.4**	**163.8**	**203.4**	**226.8**	**256.1**	**245.3**	**212.6**	**192.9**	**175.7**	**176.3**	**174.9**	**154.8**	**2,351.0**
Miramar													
Miramar 2													
Cuyamaca													
Palomar													
Desert Star													
Grossmont													
El Cajon Energy Center													
Orange Grove													
Escondido Energy Center													
Pio Pico													
Carlsbad Energy Center													
Johanna Energy Storage													
Kearny Energy Storage North													
Kearny Energy Storage South													
Valley Center Energy Storage													
El Cajon Energy Storage													
Top Gun Energy Storage													
Escondido Energy Storage													
Fallbrook Energy Storage													
Miguel Energy Storage													
Sagebrush Storage													
Melrose Storage													
Pala-Gomez Storage													
Westside Canal Storage													
Clairemont													
Boulevard													
Elliot													
Paradise Substation													
Borrego Advanced Energy Storage													
Cald BESS LLC													
Ormat Bottleneck													
Santee BESS													
Fallbrook Energy Storage 2													
Edward-Sanborn BESS													
Nova Power Bank Storage													
Westside Canal Storage 2													
TOTAL GENERATION													

ATTACHMENT C

SDG&E 2026 RENEWABLE RESOURCE DETAIL

ATTACHMENT C - SDG&E 2026 RENEWABLE RESOURCE DETAIL

Power Purchase Deliveries (GWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2026
BIO GAS													
MM San Diego LLC- Miramar Landfill	2.6	2.4	2.3	2.6	2.6	2.6	2.5	2.6	2.5	2.6	2.3	2.7	30.4
MM San Diego LLC - North City	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	6.3
Sycamore Energy	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.0
HL Power	13.2	11.9	13.2	12.8	9.8	12.8	13.2	13.2	12.8	13.2	12.8	13.2	151.8
Subtotal	**16.7**	**15.1**	**16.4**	**16.2**	**13.3**	**16.1**	**16.6**	**16.7**	**16.2**	**16.7**	**15.9**	**16.7**	**192.5**
OTHER													
Small Hydro	0.7	0.6	0.6	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	10.5
Subtotal	**0.7**	**0.6**	**0.6**	**0.8**	**0.9**	**0.9**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**10.5**
SOLAR													
NRG Borrego Solar	3.6	4.0	5.0	6.4	7.3	7.8	7.2	6.6	5.7	5.2	4.1	3.3	66.3
Sol Orchard	1.6	1.8	2.2	2.8	2.9	3.1	3.1	2.9	2.5	2.3	1.9	1.6	28.8
Solar Energy Project	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.2	3.9
NLP Valley Center Solar	0.3	0.3	0.4	0.5	0.5	0.6	0.6	0.5	0.4	0.4	0.3	0.2	4.9
NLP Granger A82	0.4	0.4	0.5	0.7	0.7	0.7	0.8	0.7	0.5	0.5	0.4	0.3	6.5
Arlington Valley Solar	19.9	22.7	24.5	32.0	38.2	39.1	37.0	33.4	31.2	29.1	22.2	18.5	347.8
Calipatria	2.3	2.6	2.8	3.5	4.3	4.7	4.5	4.3	3.7	3.1	2.6	2.0	40.4
Campo Verde	22.8	25.4	26.9	28.5	31.5	31.6	30.5	31.1	29.7	29.9	25.6	21.8	335.3
Catalina_Solar	16.1	17.6	22.4	26.0	27.2	25.9	25.7	25.4	23.6	22.9	18.4	15.4	266.5
Centinela Solar1	15.7	18.5	20.8	23.9	28.5	29.6	27.7	26.0	23.3	22.0	17.5	14.8	268.3
Centinela Solar2	13.0	15.4	17.6	20.2	23.9	24.7	23.0	21.7	19.4	18.2	14.4	12.2	223.7
Desert Green	0.6	0.8	0.8	1.2	0.9	0.9	1.1	1.0	1.0	0.9	0.8	0.6	10.6
Imperial Valley Solar I	20.4	23.9	29.2	36.7	42.2	39.6	39.9	36.3	32.0	30.6	24.5	20.9	376.1
Midway Solar	2.8	3.3	4.3	5.2	5.7	5.7	4.9	5.0	4.0	3.9	3.2	2.6	50.6
Maricopa West Solar	2.1	2.9	4.0	5.0	5.6	6.0	5.9	5.5	4.6	3.4	2.4	1.8	49.3
TallBear Seville	3.1	3.6	4.4	5.3	5.7	6.7	6.3	5.7	5.2	4.6	3.5	3.0	57.2
SolarGen 2	20.3	25.8	31.0	37.3	43.9	44.4	41.2	39.4	33.8	29.4	21.1	18.0	385.5
Cascade SunEdison	2.8	3.5	4.7	5.7	6.3	6.2	5.8	5.2	4.6	4.2	3.2	2.6	54.7
Csolar IV South	19.1	21.4	22.8	23.7	26.4	25.7	25.1	25.6	24.4	24.6	20.8	18.2	277.8
Csolar IV West	20.9	24.8	30.3	36.4	43.8	45.0	41.7	38.8	34.0	30.9	23.4	19.7	389.7
Wister Solar Project	2.1	2.7	2.7	2.4	2.6	2.8	3.4	3.2	3.1	2.9	2.4	2.1	32.4
Bright Canyon Solar	3.9	3.3	5.7	5.1	5.2	5.1	5.3	5.2	5.2	6.0	4.9	3.7	58.6
Yellow Pine Solar													-
Starlight Solar	-	-	-	-	3.9	4.0	3.6	3.5	3.4	4.0	3.1	2.2	27.9
Luna Valley Solar	16.0	17.5	22.3	25.9	27.1	25.7	25.5	25.2	23.5	22.8	18.3	15.3	265.2
Subtotal	**210.1**	**242.7**	**285.6**	**334.6**	**384.7**	**386.0**	**370.3**	**352.6**	**319.2**	**301.9**	**239.3**	**200.9**	**3,628.0**
WIND													
Rim Rock (TREC)	70.0	66.1	48.9	55.0	46.1	42.1	31.9	32.0	35.1	48.2	71.4	66.3	613.0
Coram Energy	1.9	-	-	-	-	-	-	-	-	-	-	-	1.9
Energia Sierra Juarez	43.0	42.2	55.2	42.9	54.8	44.0	30.3	25.3	29.7	27.4	40.2	34.8	469.8
Energia Sierra Juarez 2	32.0	33.5	39.5	29.3	35.4	29.9	21.7	19.2	21.9	21.8	32.8	28.1	345.2
Manzana Wind	20.4	15.4	25.1	32.9	36.5	34.0	28.9	22.6	17.3	19.5	20.1	16.9	289.7
Ocotillo Express	27.9	35.8	61.0	55.9	73.2	67.6	45.7	38.2	41.8	30.9	30.5	23.0	531.5
Pacific Wind	25.9	19.8	29.7	37.3	42.9	37.9	28.5	23.9	18.5	21.0	24.7	24.2	334.4
Subtotal	**221.2**	**212.7**	**259.5**	**253.3**	**289.0**	**255.5**	**186.9**	**161.2**	**164.2**	**168.8**	**219.8**	**193.4**	**2,585.7**
RPS SALES													
Subtotal	**(279.8)**	**(306.9)**	**(358.2)**	**(377.5)**	**(431.1)**	**(412.5)**	**(361.4)**	**(337.8)**	**(324.1)**	**(311.3)**	**(300.2)**	**(256.3)**	**(4,057.2)**
Total Power Purchase Costs ($000)													
Biogas	$ 111	$ 101	$ 110	$ 108	$ 110	$ 101	$ 174	$ 178	$ 171	$ 173	$ 101	$ 106	$ 1,544
Other	$ 156	$ 63	$ 41	$ 47	$ 87	$ 99	$ 119	$ 133	$ 122	$ 83	$ 78	$ 110	$ 1,139
Solar	$ 21,199	$ 24,978	$ 28,398	$ 33,783	$ 37,856	$ 38,350	$ 48,769	$ 46,107	$ 41,331	$ 39,542	$ 23,703	$ 20,190	$ 404,204
Wind	$ 14,019	$ 13,314	$ 19,648	$ 19,015	$ 23,267	$ 20,566	$ 15,801	$ 13,126	$ 13,069	$ 12,206	$ 13,514	$ 11,690	$ 189,235
Wind (REC)	$ 3,081	$ 2,906	$ 2,153	$ 2,419	$ 2,029	$ 1,852	$ 1,403	$ 1,410	$ 1,543	$ 2,119	$ 3,142	$ 2,918	$ 26,973
RPS Sales	$(19,622)	$(21,513)	$(25,088)	$(26,443)	$(30,181)	$(28,876)	$(25,295)	$(23,646)	$(22,690)	$(21,810)	$(21,056)	$(17,978)	$(284,200)
Subtotal	**$ 18,944**	**$ 19,850**	**$ 25,261**	**$ 28,929**	**$ 33,168**	**$ 32,090**	**$ 40,972**	**$ 37,307**	**$ 33,545**	**$ 32,312**	**$ 19,481**	**$ 17,036**	**$ 338,896**

ATTACHMENT D

(CONFIDENTIAL)

SDG&E 2026 CTC QUALIFYING FACILITY DETAIL

Attachment D

PRIVILEGED AND CONFIDENTIAL PURSUANT TO P.U.C. CODE 583, 454.5(g), GO 66-C and D.06-06-066 as needed

ATTACHMENT D - SDG&E 2026 CTC DETAIL

CTC - Dispatchable (GWh)	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**2026**
Goal Line													
CTC QF - SRAC Priced (GWh)													
Aggregation of Hydro Units (SO1)													
Subtotal													
ERRA Expenses ($000)													
CTC (up to market)													
TCBA Expenses ($000)													
CTC (above market)													

ATTACHMENT E

(CONFIDENTIAL)

SDG&E GREENHOUSE GAS DETAIL

Attachment E

PRIVILEGED AND CONFIDENTIAL PURSUANT TO P.U.C. CODE 583, 454.5(g), GO 66-C and D.06-06-066 as needed

ATTACHMENT E - SDG&E 2026 GREENHOUSE GAS (GHG) DETAIL

2026 Direct Emissions (MT)	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**2026**
California UOG Plants													
California Tolling Generators													
Specified Imports													
Unspecified Imports (Market Purchases)													
Total Direct Emission													
2026 Indirect Emissions (MT)													
Unspecified Imports (Market Purchases)													
Unbundled RPS after REC Sales													
CHP													
Total Indirect Emission													
2026 Total Forecasted Emission													

ATTACHMENT F

DECLARATION OF JIMMY ELIAS

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

DECLARATION OF JIMMY ELIAS

A.25-05-XXX
Application of San Diego Gas & Electric Company (U 902-E)
for Approval of Its 2026 Electric Procurement Revenue Requirement Forecasts and GHG-Related Forecasts

I, Jimmy Elias, declare as follows:

1. I am a Senior Resource Planner for San Diego Gas & Electric Company ("SDG&E"). I sponsored my Prepared Direct Testimony ("Testimony") in support of SDG&E's May 15, 2025 Application for Approval of its 2026 Electric Procurement Revenue Requirement Forecasts and GHG-Related Forecasts ("Application"). Additionally, as the Senior Resource Planner, I am thoroughly familiar with the facts and representations in this declaration, and if called upon to testify I could and would testify to the following based upon personal knowledge.

2. I am providing this Declaration to demonstrate that the confidential information ("Protected Information") in support of the referenced Application falls within the scope of data provided confidential treatment in the IOU Matrix ("Matrix") attached to the Commission's Decision ("D.") 06-06-066 (the Phase I Confidentiality decision). Pursuant to the procedure adopted in D.08-04-023, I am addressing each of the following five features of Ordering Paragraph 2 of D.06-06-066:

- that the material constitutes a particular type of data listed in the Matrix;
- the category or categories in the Matrix the data correspond to;
- that SDG&E is complying with the limitations on confidentiality specified in the Matrix for that type of data;
- that the information is not already public; and

- that the data cannot be aggregated, redacted, summarized, masked, or otherwise protected in a way that allows partial disclosure.

3. The Protected Information contained in my Testimony constitutes material, market sensitive, electric procurement-related information that is within the scope of Section 454.5(g) of the Public Utilities Code.[1] As such, the Protected Information is allowed confidential treatment in accordance with the Matrix, as follows:

Location of Protected Information (designated in Yellow Highlight)	**Matrix Reference**	**Reason for Confidentiality and Timing**
JE-3	V.C	LSE Total Energy Forecast – Bundled Customer; confidential for the front three years
JE-4 Table 1	IV.F	Forecast of Post-1/1/2003 Bilateral Contracts; confidential for three years
JE-5	VI.A	Utility Bundled Net Open Position for Capacity; confidential for the front three years
JE-6	VI.A VII.B	Utility Bundled Net Open Position for Capacity; confidential for the front three years Contracts and power purchase agreements between utilities and non-affiliated third parties
JE-7 Table 2	IV.A	Forecast of IOU Generation Resources; confidential for three years
JE-9	IV.B	Forecast of Qualifying Facility Generation; confidential for three years

[1] In addition to the details addressed herein, SDG&E believes that the information being furnished in my Testimony is governed by Public Utilities Code Section 583 and General Order 66-D. Accordingly, SDG&E seeks confidential treatment of this data under those provisions, as applicable.

Location of Protected Information (designated in Yellow Highlight)	Matrix Reference	Reason for Confidentiality and Timing
JE-10	II.B.1 II.B.3 II.B.4 IV.J	Generation Cost Forecasts of Utility Retained Generation, confidential for three years, Generation Cost Forecasts of QF Contracts, confidential for three years, Generation Cost Forecasts of Non-QF Bilateral Contracts, confidential for three years, Forecast of Wholesale Market Purchases; confidential for the front three years
JE-11, JE-12	II.A.2	Utility Electric Price Forecasts; confidential for three years,
JE-12	II.B.3	Generation Cost Forecast of QF Contracts; confidential for three years
JE-13, JE-14	II.B.1 II.B.4	Generation Cost Forecasts of Utility Retained Generation, confidential for three years, Generation Cost Forecasts of Non-QF Bilateral Contracts, confidential for three years,
JE-16, JE-17	I.A.4	Long-term Fuel (gas) Buying and Hedging; confidential for three years
JE-25 Table 4	Justification for confidentiality provided in Declaration of Chris Summers	GHG emissions forecast: Providing these forecasts to market participants would allow them to know SDG&E's GHG forecasted GHG obligation, thereby compromising SDG&E's contractual bargaining power such that customer costs are likely to rise. Thus, the release of this non-public confidential information will unjustifiably allow market participants to use this information to the disadvantage of SDG&E's customers.
JE-25, JE-27	II.B.4	Generation Cost Forecasts of Non-QF Bilateral Contracts, confidential for three years
Attachment A - SDG&E 2026 ERRA and LG Expenses	XI	Monthly Procurement Costs; confidential for three years

Location of Protected Information (designated in Yellow Highlight)	**Matrix Reference**	**Reason for Confidentiality and Timing**
Attachment B - SDG&E 2026 Generation Portfolio Delivery Volumes • CTC and non-CTC QF generation data • UOG and non-UOG gas, pumped hydro storage, and battery storage generation data	IV.A IV.E IV.B IV.F	Forecast of IOU Generation Resources; confidential for three years Forecast of Pre-1/1/2003 Bilateral Contracts; confidential for three years Forecast of Qualifying Facility Generation; confidential for three years Forecast of Post-1/1/2003 Bilateral Contracts; confidential for three years
Attachment D - SDG&E 2026 CTC Qualifying Facility (QF) Detail • CTC QF dispatchable and non-dispatchable data • Long-Term Power Purchase CTC data • TCBA Expenses data	IV.E IV.B II.B.4 II.B.3	Forecast of Pre-1/1/2003 Bilateral Contracts; confidential for three years Forecast of Qualifying Facility Generation; confidential for three years Generation Cost Forecast of Non-QF Bilateral Contracts; confidential for three years Generation Cost Forecast of QF Contracts; confidential for three years
Attachment E - SDG&E Greenhouse Gas (GHG) Detail	Justification for confidentiality provided in Declaration of Chris Summers	GHG emissions forecasts: Providing these forecasts to market participants would allow them to know SDG&E's GHG forecasted GHG obligation, thereby compromising SDG&E's contractual bargaining power such that customer costs are likely to rise. Thus, the release of this non-public confidential information will unjustifiably allow market participants to use this information to the disadvantage of SDG&E's customers.

4. I am not aware of any instances where the Protected Information has been disclosed to the public. To my knowledge, no party, including SDG&E, has publicly revealed any of the Protected Information.

5. SDG&E will comply with the limitations on confidentiality specified in the Matrix for the Protected Information.

6. The Protected Information cannot be provided in a form that is aggregated, partially redacted, or summarized, masked, or otherwise protected in a manner that would allow further disclosure of the data while still protecting confidential information.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed this 15th day of May, 2025, at San Diego, California.

/s/ Jimmy Elias
Jimmy Elias
Senior Resource Planner
San Diego Gas & Electric Company

ATTACHMENT G

DECLARATION OF CHRIS SUMMERS REGARDING CONFIDENTIALITY OF CERTAIN DATA/DOCUMENTS PURSUANT TO D.16-08-024, *et al.*

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

DECLARATION OF CHRIS SUMMERS REGARDING CONFIDENTIALITY OF CERTAIN DATA/DOCUMENTS PURSUANT TO D.16-08-024, *et al.*

I, Chris Summers do declare as follows:

1. I am the Director of Origination, Energy Supply, & Dispatch in the Energy Procurement Department for San Diego Gas & Electric Company ("SDG&E"). I have been delegated authority to sign this declaration by Adam Pierce, Vice President of Energy Procurement & Rates. I have reviewed Jimmy Elias's Updated Prepared Direct Testimony ("Testimony") in support of SDG&E's May 15, 2025 Application for Approval of Its 2026 Electric Procurement Revenue Requirement Forecasts and GHG-Related Forecasts ("Application"). I am personally familiar with the facts and representations in this Declaration and, if called upon to testify, I could and would testify to the following based upon my personal knowledge and/or information and belief.

2. I hereby provide this Declaration in accordance with Decisions ("D.") 16-08-024, D.17-05-035, and D.17-09-023 to demonstrate that the confidential information ("Protected Information") provided in the Testimony is within the scope of data protected as confidential under applicable law.

3. In accordance with the legal authority described herein, the Protected Information should be protected from public disclosure.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct to the best of my knowledge.

Executed this 15th day of May 2025, in San Diego.

/s/ *Chris Summers*
Chris Summers
Director of Origination, Energy Supply & Dispatch

ATTACHMENT A

SDG&E Request for Confidentiality on the following information in its Application for Approval of Its 2026 Electric Procurement Revenue Requirement Forecasts and GHG-Related Forecasts

Location of Protected Information (designated i Yellow Highlight)	Legal Authority	Narrative Justification
JE-25 Table 4, and Attachment E - SDG&E Greenhouse Gas (GHG) Detail Application Attachment G, Template D-2: Forecasted Emissions and Costs	D.14-10-033; D.16-08-024; D.17-05-035; D.17-09-023; Public Utilities Code Section 454.5(g).	The information does not expressly fall within any category of the IOU Matrix applicable to electric procurement information, but is market-sensitive information in that providing these GHG emissions forecasts to market participants would allow them to know SDG&E's forecasted GHG obligation, thereby compromising SDG&E's contractual bargaining power such that customer costs are likely to rise. Thus, the release of this non-public confidential information will unjustifiably allow market participants to use this information to the disadvantage of SDG&E's customers.