Application No.: A.23-05-XXX

Exhibit No.:

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



May 15, 2023

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

I. INTRODUCTION

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This testimony describes the resources San Diego Gas & Electric Company ("SDG&E") expects to use in calendar year 2024 to provide electric commodity service to its bundled service customers; provides a forecast of the procurement costs that SDG&E expects to record in 2024 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 2024 forecast of SDG&E's San Onofre Generating Station ("SONGS") Unit 1 Offsite Spent Fuel Storage Costs; provides a forecast of 2024 total greenhouse gas ("GHG") costs; and provides a 2024 forecast of Tree Mortality Non-Bypassable Charge ("TMNBC") costs. SDG&E witness Ms. Hua uses my forecast of ERRA, Competition Transition Charge ("CTC") and Local Generation ("LG") in developing 2024 revenue requirements for each element. In addition, this testimony provides information that supports SDG&E witness Ms. Baez'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 2024, as well as forecasts of the supply resources that SDG&E expects to utilize to meet that load in calendar year 2024. The supply resources for the forecasts include: (1) conventional generation resources that are under contract for 2024; (2)

1	generation resources owned by SDG&E (3) renewable generation resources that are under
2	contract for 2024; and (4) Qualifying Facilities ("QFs") under the Public Utility Regulatory
3	Policies Act ("PURPA") that are under contract for 2024.
4	Section III quantifies the costs associated with the resources described in Section II,
5	along with other electric procurement costs that are recorded in ERRA, such as market
6	purchases, California Independent System Operator ("CAISO") charges and portfolio hedging
7	costs. These costs are summarized in Attachment A.
8	Section IV provides a forecast of the 2024 SONGS Unit 1 Offsite Spent Fuel Storage
9	Costs associated with SDG&E's 20% minority ownership interest in SONGS.
10	Section V provides a forecast of the 2024 GHG emissions and associated costs, both
11	direct and indirect, incurred in connection with SDG&E's compliance with California's cap-and-
12	trade program. This testimony also provides a forecast of GHG allowance auction revenues.
13	Section VI provides a forecast of the 2024 TMNBC costs.
14	Section VII, provides a summary of SDG&E's meet-and-confer activities with
15	Community Choice Aggregators in SDG&E's service territory.
16	Finally, this testimony refers to the following attachments:
17	Attachment A: SDG&E 2024 ERRA and LG Expenses (CONFIDENTIAL)
18	Attachment B: SDG&E 2024 Generation Portfolio Delivery Volumes (CONFIDENTIAL)
19	Attachment C: SDG&E 2024 Renewable Resource Detail
20	Attachment D: SDG&E 2024 CTC & QF Detail (CONFIDENTIAL)
21	Attachment E: SDG&E GHG Detail (CONFIDENTIAL)
II.	

II. 2024 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. Schiermeyer. This forecast includes the projected load departure of Community Choice Aggregators ("CCA") Clean Energy Alliance ("CEA"), Orange County Power Authority ("OCPA"), 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 2024 will be gigawatt hours ("GWh"). The 2024 forecast is GWh or % less than SDG&E's forecasted bundled energy for 2023 (GWh).

B. Supply Resource Forecast

After determining the amount of energy that SDG&E's bundled load customers will require in 2024, 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 01, 2023) assessment of 2024 market prices. The model simulates a least-cost dispatch of SDG&E's resource portfolio for every hour of 2024 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 2024 resource portfolio. These resources are available under a variety of contractual arrangements, including tolling contracts, fixed energy

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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)	
	2024	2023	Difference
El Cajon Energy Center			
Orange Grove			
Escondido Energy Center			
Pio Pico			
Carlsbad Energy Center			
Total			

SDG&E also enters into additional contracts each year to meet its California Public Utilities Commission ("CPUC") Resource Adequacy ("RA") requirements. 1 Under its RA

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

rights to the energy or ancillary services from these units. For 2024, SDG&E has been granted approval for contracts providing of RA capacity and sales of RA capacity.

R.20-05-003² is scheduled to resolve and establish the cost recovery mechanism for the resources in compliance with D.19-11-016³ while D.21-03-056⁴ establishes the cost recovery mechanism for resources as a result of procurement in R.20-11-003.⁵ Some of these contracts were executed prior to the official announcement of CCA load departure and were procured to meet load levels assuming no CCA load departure.

2. SDG&E-Owned Dispatchable Generation

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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;

provide appropriate incentives for the siting and construction of new resources needed for reliability in the future.

A successor docket to R.16-02-007, this proceeding addressed ongoing oversight of the IRP planning process and the procurement necessary to achieve the goals set by the Legislature in SB 350 and SB 100, as well as by the Commission in R.16-02-007.

The Integrated Resource Plan (IRP) proceeding, R.16-02-007, issued Decision (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 requires at least 50% of the resources to come online by August 1, 2021, 75% by August 1, 2022, and 100% by August 1, 2023.

Electric Reliability proceeding directed the IOUs within the CAISO to procure additional resource capacity for the summers of 2021 and 2022.

During August 2020 the commission instituted the Emergency Reliability Rulemaking Order as a result of extreme heat storms experienced in California

- the Miramar Energy Facility ("Miramar I and II"), consisting of two 48
 MW simple cycle combustion turbine units;
- the Battery Storage facilities, consisting of Escondido at 30 MW, El Cajon at 7.5 MW, Top Gun at 30 MW, Fallbrook at 40 MW, Kearny ("Kearny South and North"), consisting of two 10 MW facilities, Melrose at 20 MW, Pala-Gomez at 10 MW, Westside Canal at 131 MW, Clairemont at 10 MW, Boulevard at 10 MW, Elliott at 10 MW, and Paradise at 10 MW; and
- 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.⁶ The forecasted generation for these plants for 2024 is detailed in Attachment B and is summarized in Table 2 below:

	Table	2: Generation (GW	/h)
	2024	2023	Difference
Palomar			
Desert Star			
Miramar			
Battery Storage			
Cuyamaca			
Total			

⁶ 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.

3. Renewable Energy Contracts

The 2024 forecast of renewable energy supply from CPUC-approved contracts is 6,679 GWh, which includes 903 GWh of Renewable Energy Credit ("REC") quantities⁷ that are delivered to SDG&E in conjunction with existing non-renewable imports. This forecast represents an increase of 973 GWh from the 2023 forecast (5,706 GWh). The forecasted generation associated with SDG&E's monthly renewable contracts is set forth in Attachment C.

For 2024, SDG&E forecasts it will receive 1,869 GWh of bundled renewable energy under 40 contracts with facilities that generate electricity using wind, solar, biogas, and non-pumped hydro technologies. This number considers forecasted RPS sales for 2024 in the amount of 4,810 GWh. 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.18-07-003.8 These sales volumes are estimates only and do not represent specific current or future agreements with counterparties. Any sales agreements subsequently entered into by SDG&E will be included in the October Update filing. The forecasted generation for projects that are currently online and operating, and for those projects that have recently come online and are expected to continue operations in 2024, are derived from generation profiles based on historical data for similar technologies.9 The forecasted energy mix from these renewable resources is shown in Table 3 below:

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.

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

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.

	Table	3: Generation (GWh)
	2024	2023	Difference
Solar	3,263	2,311	952
Wind	2,163	1,966	197
Wind RECs	902	1,236	(334)
Biogas	229	165	64
Other	122	28	94
RPS Sales	(4,810)	(3,259)	(1,551)
Total	1,869	2,447	(578)

4. Competitive Transition Charge (CTC) Contracts

In 2024, SDG&E will have approximately 106.7 MW of CTC capacity under contract, with one QF.¹⁰ All CTC contracts are in SDG&E's service area except for the Yuma Cogeneration Associates ("YCA") plant, a 55 MW natural gas-fired plant located in Arizona, the output of which is imported into CAISO.

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. SDG&E has amendments with Goal Line and YCA, which provide SDG&E with more economic dispatch rights. SDG&E forecasted the plants' dispatch in accordance with these terms. The forecast of CTC energy supply for 2024 is ______. The forecasted generation for these plants is detailed in Attachment D.

III. 2024 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

The actual number of active QF contracts is over 50, but many of these QF resources only serve onsite 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.

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, and hedging costs.

SDG&E expects to incur \$523 million of ERRA costs in 2024,¹¹ as reflected in Attachment A. This forecast is \$113 million less than the \$636 million forecasted for 2023.

The above-market costs of all generation resources that are eligible for cost recovery through PCIA rates will be recorded in PABA going forward. SDG&E's 2024 PABA cost forecast is \$91 million. 12 This compares with a forecast of \$98 million for 2023 filed in the 2023 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's production cost model forecasts \$ of ISO load charges for 2024. This cost includes the indirect GHG costs embedded in the market price of energy. GHG quantities and costs are presented in Section V.

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

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.

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 for generation sold in 2024.

C. Contracted Energy Purchases

1. Purchased Power Contracts

2. Renewable Energy Contracts

SDG&E's renewable energy contracts usually contain only an energy payment and no capacity payment. For 2024, SDG&E's renewable energy portfolio will include a cost for all the renewable power delivered based on contract prices and the renewable energy credits (RECs) described in Section II under "Renewable Energy Contracts." All costs associated with these contracts are forecasted to be \$598.4 million for 2024 and are booked to ERRA with above market costs booked to PABA. This includes \$77 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. ¹³ On August 25 2022, the CPUC issued a ruling that suspended the GT program; as a result, the estimated GT customer usage in 2024 is 0 GWh. ¹⁴ The Interim Pool Sales for 2024 are forecast to be zero because forecasted customer usage is lower than the forecasted generation from the Midway and Wister solar projects. The estimated GT charges include the cost of local solar ¹⁵ of § Grid Management Charges ("GMC") of \$0.92/MWh and Western Renewable Energy Generation Information System ("WREGIS") costs of \$0.00400/MWh. The estimated total energy procurement cost of GT in 2024 is \$0. The estimated ECR customer usage in 2024 is 0.00 GWh. The estimated total cost of ECR in 2024 is \$0. Additionally, the solar value adjustment was calculated as \$ These GTSR rates are illustrative; full details of SDG&E's GTSR proposal are discussed in the testimony of SDG&E witness Rachelle R. Baez.

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

Decision 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.

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

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

In A.22-05-023 the CPUC granted SDG&E authorization to temporarily suspend the EcoChoice program, therefore, the NQC of the resources that are used to serve these customers is assumed to be zero.

SDG&E's Short-Run Avoided Cost ("SRAC") formula.¹⁷ For the dispatchable contracts, SDG&E pays fuel, variable O&M and capacity payments. These contracts, whether PURPA or dispatchable, are considered CTC contracts¹⁸ and the ERRA expenses are based on delivered energy multiplied by the market price benchmark ("MPB"). 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 5 of Attachment A, "Contract Costs (CTC up to market)," and are forecasted to be \$\frac{1}{2}\$ in 2024. Attachment D details the breakdown of all the units discussed in this section and shows the associated costs, both ERRA 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)

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

The CP Kelco contract is not considered a CTC contract for cost allocation purposes.

¹⁹ 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.

are calculated based on SDG&E's forecasted fuel usage for this plant and the applicable tariffs, Schedule GP-SUR²⁰ and Schedule EG.²¹

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. Because these contract 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, Pio Pico, Kelco, Grossmont, a portion of Sentinel Energy Center, Melrose Energy Storage, Pala-Gomez Creek Energy Storage, Westside Canal Energy Storage, Sagebrush Energy Storage, Clairemont, Boulevard, Elliot, and Paradise contracts are included in this balancing account and are expected to cost \$\infty\$, net of supply ISO revenue. Attachment A details the breakdown of local generation expenses.

F. Integrated Resource Planning and Electric Reliability Procurement Tracks

The Integrated Resource Plan (IRP) proceeding, R.16-02-007, issued Decision (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 requires 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

²⁰ Customer-procured Gas Franchise Fee Surcharge

²¹ Natural Gas Intrastate Transportation Service for Electric Generation Customers.

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 modified Cost Allocation Mechanism ("CAM") 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. Resolution (E-5241), approving SDG&E's rate implementation plan to recover procurement costs associated with MCAM, was issued January 2023. Therefore, this 2024 forecast does not have any forecasted dollars in RAPMA.

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 megawatts (MW) of net qualifying capacity (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 San Diego Community Power's (SDCP) 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

²² Advice Letter 3707-E

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 two advice letters 4096-E and AL 4189-E. AL 4096-E which included three projects: Edward Sanborn, Bottleneck, and Cald was approved January 2023. AL 4189-E is still pending commission approval. 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 their targets, and any backstop procurement costs SDG&E incurs is authorized to be recovered through the CAM 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 a subsequent decision (D.21-12-015), the IOUs were directed to procure additional resource capacity for the summers of 2022 and 2023. Both decisions authorize the IOUs to seek CAM cost recovery for any resulting procurement.

G. CAISO Related Costs

SDG&E forecasts the miscellaneous CAISO costs to be \$ in 2024. SDG&E also forecasts the cost of the Federal Energy Regulatory Commission ("FERC") Fees and Western Renewable Energy Generation Information System to be \$ in 2024.

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

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 bids²⁴ 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.

SDG&E's 2014 Long-Term Procurement Plan, Appendix B: Electric and Gas Hedging Strategy.

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-nodes²⁵ 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 2024 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 2024 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 ISTs²⁶ 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

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.

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. 2024 Forecast

SDG&E estimates its 2024 SONGS Unit 1 offsite spent fuel storage expense to be \$1.300 million, including adjustments for escalation, in accordance with the GE-Hitachi spent fuel storage contract.²⁷ The storage contract utilizes the Bureau of Labor Standards' labor non-financial corporations and industrial commodities indices to forecast escalation rates, which are included in SCE's billing statement to SDG&E. This estimate is based on a spent fuel storage cost forecast prepared by SCE's Nuclear Fuel Manager utilizing the contract escalation terms.

V. 2024 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." Generally, first deliverers of electricity in 2024 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 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 may recover these costs through ERRA per D.15-12-032.

ARB, Article 5: California Cap on Greenhouse Gas Emissions and Market-based Compliance Mechanisms, at 60, Section 95811(b), *available* at https://www.arb.ca.gov/cc/capandtrade/c-t-regreader-2013.pdf.

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 2024 GHG costs. Finally, Section V.D discusses the 2024 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 (CO₂e). 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 CO₂e per MMBtu to calculate direct emissions obligations for each plant.²⁹ The forecast of GHG emissions from SDG&E facilities in 2024 is included in Table 4 below.

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 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.

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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 CO₂e per MMBtu. Table 4 below provides the forecast of GHG emissions from generators that are under tolling agreements with SDG&E in 2024.

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.³⁰

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 CO₂e per MMBtu.

Second, imported power from "unspecified sources" is multiplied by an estimated transmission loss factor of 1.02³¹ 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 CO₂e 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.

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.

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.³² 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. 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 market electricity price (with embedded GHG costs), or a fixed heat rate with the GHG cost

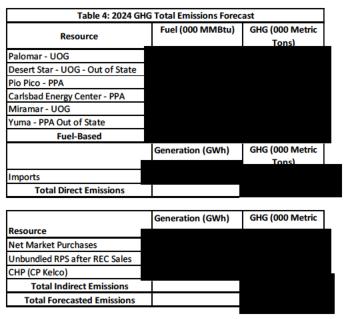
In fact, however, the generation is bid into the CAISO market and dispatched by CAISO to meet statewide needs. The simplifying assumption is used to calculate net CAISO market purchases – all CAISO purchases less all resources that are forecasted to successfully bid into the CAISO market by SDG&E, including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

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 2024 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.



JE - 23

C. 2024 GHG Costs

The proxy for the 2024 GHG emissions price is calculated as \$_\text{derived}\$. This figure was derived using a recent (March 01, 2023) assessment of 2024 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 2024 of \$_\text{of}\$ of direct GHG costs in LGBA, \$_\text{of}\$ of direct GHG costs in ERRA, and \$_\text{of}\$ of indirect GHG costs.

D. 2024 Allowance Auction Revenues

The CARB allocates cap-and-trade allowances to SDG&E for 2024. SDG&E is required to place all these allowances for sale in CARB's 2024 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.³³

The total allowances that will be allocated to SDG&E for 2024 is expected to be 6,435,664 MT. SDG&E's Forecast 2024 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 \$31.6/MT. The allowance auction revenue forecast is the allowances allocated times the allowance price, which totals \$203.4 million.

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.

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efficiency projects initiated by the Solar on Multifamily Affordable Housing ("SOMAH") Program.^{34, 35} This program provides financial incentives for installation of solar energy systems on multifamily affordable housing properties, as specified in the statute. For 2024, the funding 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.³⁶ Any true-ups for allowance revenues set aside for clean energy and energy efficiency projects are addressed in the testimony of SDG&E witness Brenda Hua.

A portion of the allowance auction revenue is reserved for clean energy and energy

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").³⁷ 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.³⁸ SDG&E estimates the DAC-SASH program funding for 2024 to be \$1.09 million.

D.17-12-022 Ordering Paragraph ("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."

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.

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

D.18-06-027 at OP 1.

D.18-06-027 at OP 8.

VI. 2024 FORECAST OF TMNBC COSTS

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The cost forecast for tree mortality-related procurement costs for 2024 is \$

The TMNBC costs will be recovered through the Public Purpose Program (PPP) charge, as

addressed in the testimony of SDG&E witness Rachelle R. Baez.

This concludes my prepared direct testimony.

Per D.18-12-003, SDG&E filed Advice Letter 3343-E18 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 not previously testified before the California Public Utilities Commission.

ATTACHMENT A

(CONFIDENTIAL)

SDG&E 2024 ERRA AND LG EXPENSES

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 2024 ERRA and LG EXPENSES

1 EXPENSES (\$)	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		2024
	Jan	100	mai	Αμι	may	Juli	Jui	Aug	36p	Out	NOV	D80	_	2024
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 Cred ts (TRECs)														
20 Net Surplus Compensation Costs (AB920)														
21 Authorized Disallowances														
22 Greenhouse Gas & Carrying Costs														_
Total Balancing Account Expenses													\$	523,014,428
PABA Portion of ERRA Expenses													\$	90,516,873
														,,
Line 4 Contract Costs (non CTC)														
Lake Hodges														
El Cajon Energy Center Peaker Costs														
Orange Grove Peaker Costs														
Olivenhain Hydro														
Other RA Capac ty Costs (RA RFO, DRAM)														
Cald BESS LLC														
Ormat Bottleneck														
Modified CAM PABA portion contract costs														
Modified CAM PABA portion RA Sales														
RA Sales														
REC Sales \$	\$ (5,123,816) \$	(5,681,728) \$	(6,942,351) \$	(8,557,220) \$	(8,994,110) \$	(7,985,991) \$	(7,280,473) \$	(6,806,692) \$	(5,777,488) \$	(5,657,834) \$	(4,408,609)	\$ (4,212,794) \$	(77,429,105)
CFD Revenues														
Green Tartff Excess														
Renewable Energy \$	\$ 38,589,263 \$	44,001,847 \$	56,530,629 \$	66,737,352 \$	71,526,767 \$	64,688,527 \$	72,088,405 \$	70,343,796 \$	58,742,634 \$	58,457,265 \$	35,587,203	\$ 31,884,311		669,177,999
Line 4 Total														
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Line 6 Generation Fuel														
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ATTACHMENT B

(CONFIDENTIAL)

SDG&E 2024 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 2024 GENERATION PORTFOLIO DELIVERY VOLUMES (GWh)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2024
СТС													
Non-CTC QF													
TOTAL													
Renewable - Bio Gas	20.3	18.6	18.3	20.1	21 5	19.3	18.3	19.1	18.2	15.7	20.9	18.6	229.0
Renewable - Other	4.5	5.0	6.5	7.0	7.8	12.7	13.0	12.8	11.3	11.4	9.9	9.3	111.2
Renewable - Solar	190.1	210.3	263.8	312.5	346.4	337.1	328.2	312.1	269.6	259.1	194.0	154.8	3,177.8
Renewable - Wind	133.7	165.1	226.0	273.6	277.3	215.9	188.6	166.5	135.6	148.2	104.0	128.2	2,162.7
Renewable - Wind REC	102.0	91.8	92.2	82.9	75.1	73.1	49.5	56.9	67.9	65.2	85.0	60.8	902.5
Midway-Green Tariff-EcoChoice	4.6	5.3	7.3	8.9	9.8	9.8	9.6	8.7	7.1	6.1	4.4	3.4	85.1
Renewable - RPS Sales	(329.6)	(360.1)	(442.1)	(512.9)	(536.4)	(483.4)	(439.7)	(416.6)	(366.7)	(361.7)	(294.0)	(266.9)	(4,810.1
TOTAL NON-CTC RENEWABLE	125.6	136.0	172.0	192.1	201.5	184.5	167.4	159.5	143.1	144.1	124.2	108.2	1,858.2

Miramar			
Miramar 2			
Cuyamaca			
Palomar			
Desert Star			
Grossmont			
Kelco			
Lake Hodges			
El Cajon Energy Center			
Orange Grove			
Escondido Energy Center			
Pio Pico			
Carlsbad Energy Center			
Johanna Energy Storage			
Kearny Energy Storage Nor h			
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			
TOTAL GENERATION			

ATTACHMENT C SDG&E 2024 RENEWABLE RESOURCE DETAIL

Attachment C

PRIVILEGED AND CONFIDENTIAL PURSUANT TO P.U.C. CODE 583, 454.5(g), GO 66-C and D.06-06-066 as needed ATTACHMENT C - SDG&E 2024 RENEWABLE RESOURCE DETAIL

Power Purchase Deliveries (With) Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
MM San Diego LLC - Marmers Laurdif - - - - - - - - - -
MM Sen Dego LLC - North City
Sycamore Energy
Substotal 17.6 15.9 15.3 17.1 18.6 16.5 15.3 19.2 15.5 12.8 18.0 16.3
Substotal 20.3 18.6 18.3 20.1 21.5 19.3 18.2 19.1 18.2 15.7 20.9 18.6
Small Hydro
Small Hydro
Lake Holgas 0.0 0.
Bright Carryon Hybrid 3.2 3.7 5.1 5.7 6.6 6.3 6.3 5.8 4.9 4.4 3.2 2.6 E-bauerd Samborn Hybrid 3.2 3.7 5.1 5.7 6.6 6.3 5.8 4.9 4.4 3.2 2.6 E-bauerd Samborn Hybrid 3.2 3.7 5.1 5.7 6.6 6.3 5.8 4.9 4.4 3.2 2.6 E-bauerd Samborn Hybrid 3.2 3.7 5.1 5.7 6.6 6.3 5.8 4.9 4.4 3.2 2.6 E-bauerd Samborn Hybrid 3.2 3.7 5.1 5.7 6.6 6.3 5.8 4.9 4.4 3.2 2.6 E-bauerd Samborn Hybrid 3.2 3.7 5.1 5.9 5.4 4.1 3.1
Edward-Samborn Hybrid 3.2 3.7 5.1 5.7 6.6 6.3 6.3 5.8 4.9 4.4 3.2 2.6
Solar Sola
SOLAR SOLA
NRG Borego Solar
NRG Borego Solar
Sol Crichard 1.5 1.8 2.3 2.9 3.1 3.5 3.8 3.6 2.9 2.7 2.1 1.4 Solar Energy Project 0.4 0.5 0.6 0.6 0.5 0.5 0.6 0.7 0.6 0.5 0.3 0.2 N.P. Valley Centler Solar 0.3 0.3 0.4 0.6 0.7 0.7 0.6 0.6 0.5 0.5 0.6 N.P. Granger AB2 0.4 0.4 0.4 0.6 0.7 0.7 0.8 0.9 0.7 0.6 0.6 0.5 0.3 Calpatia 197 22.8 28.5 35.5 39.8 39.8 38.0 35.9 30.5 29.4 20.4 16.3 Calpatia 2.2 2.4 3.3 3.9 4.9 4.9 5.1 4.6 3.7 3.3 2.3 1.5 Campo Verde 2.4.5 24.5 24.5 24.5 28.3 31.4 33.9 31.7 30.0 30.9 28.3 29.7 24.7 20.8 Catalians Solar 16.0 18.2 21.7 23.9 24.4 24.4 25.1 24.7 21.9 21.1 17.3 13.1 Centineia Solar2 1.5 0.8 4.1 4.2 4.0 2.9 3.5 3.5 3.8 3.5 36.4 31.9 30.3 22.1 17.8 Centineia Solar2 1.5 0.8 0.9 0.9 1.2 1.3 1.3 1.3 1.3 1.1 1.2 0.9 0.6 Imperial Valley Solar 24.4 27.6 36.6 43.8 47.6 46.2 43.7 40.6 34.2 32.7 23.2 18.7 Imperial Valley Solar 24.4 27.6 36.6 43.8 47.6 46.2 43.7 40.6 34.2 32.7 23.2 18.7 Imperial Valley Solar 18.3 20.7 27.4 32.8 35.7 34.6 32.8 30.5 25.7 24.5 17.4 14.0 Cascade Sunction 19.6 20.4 23.7 26.9 28.8 35.7 34.6 32.8 30.5 25.7 24.5 17.4 14.0 Cascade Sunction 29.8 32.9 29.9 25.9 28.8 26.8 26.4 26.6 24.5 24.8 20.0 16.3 Subtotal 194.7 215.6 271.0 321.3 356.2 34.9 33.8 32.8 27.7 26.5 31.8 WIND Wind Cascade Sunction 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 - - Film Rock (FREC) 72.3 62.9 62.4 57.0 50.9 49.5 34.9 39.1 47.0 53.6 85.0 60.8
Solar Energy Project
N.P. Valley Center Solar 0.3 0.3 0.4 0.5 0.5 0.6 0.6 0.6 0.5 0.4 0.3 0.2 N.P. Granger A82 0.4 0.4 0.6 0.7 0.7 0.8 0.9 0.7 0.6 0.6 0.6 0.5 0.3 Afriligoto Valley Solar 19.7 22.8 28.5 35.5 39.8 39.8 38.0 35.9 30.5 29.4 20.4 16.3 Calipatia 2.2 2.4 3.3 3.9 4.9 4.9 5.1 4.6 3.7 3.3 2.3 1.5 Campo Verde 2.4 5.5 24.5 24.5 28.3 31.4 33.9 31.7 30.0 30.9 28.3 29.7 24.7 20.8 Catalina Solar 16.0 18.2 21.7 23.9 24.4 24.4 25.1 24.7 21.9 21.1 17.3 13.1 Centinela Solar1 2.1 4 24.0 29.7 35.3 40.6 39.5 38.5 36.4 31.9 30.3 22.1 17.8 Centinela Solar2 7.5 8.4 10.5 12.4 14.2 13.6 13.3 12.6 11.1 10.5 7.6 6.2 Desert Green 0.8 0.9 0.9 1.2 1.3 1.3 1.3 1.3 1.1 1.1 1.2 0.9 0.6 Imperial Valley Solar 1 2.4 27.6 36.6 43.8 47.6 46.2 43.7 40.6 34.2 32.7 23.2 18.7 Midway Solar 1 2.2 2.6 3.6 43.8 47.6 46.2 43.7 40.6 34.2 32.7 23.2 18.7 Midway Solar 1 1.8 2.8 3.5 4.7 5.1 5.1 5.2 4.6 3.7 2.9 2.1 1.5 Maricopa West Solar 1 1.8 2.8 3.5 4.7 5.1 5.3 5.4 4.3 3.3 3.1 1.8 1.3 TallBear Seville 2.7 2.7 2.7 4.0 5.1 6.0 6.3 6.6 6.1 4.9 4.5 3.1 2.2 Cascade SunEdison 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Cascade SunEdison 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Vister Solar Project 2.4 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Subtotal 194.7 215.6 271.0 321.3 356.2 346.9 337.8 320.8 276.7 265.3 198.4 198.1 WIND Glacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7
NLP Granger A82 0.4 0.4 0.6 0.7 0.7 0.8 0.9 0.7 0.6 0.6 0.5 0.3 Arlington Valley Solar 19.7 22.8 28.5 35.5 39.8 39.8 38.0 35.9 30.5 29.4 20.4 20.4 10.3 Calipatria 22.2 2.4 3.3 3.9 4.9 4.9 4.9 5.1 4.6 3.7 3.3 2.2 2.4 2.4 2.5 Campo Verde 24.5 Catalina Solar 16.0 18.2 21.7 23.9 24.4 24.4 25.1 24.7 21.9 21.1 17.3 13.1 Centinela Solar1 21.4 24.0 29.7 35.3 40.6 39.5 38.5 39.8 30.0 30.9 28.3 29.7 24.7 20.8 Catalina Solar Centinela Solar1 21.4 24.0 29.7 35.3 40.6 39.5 38.5 38.6 31.7 30.0 30.9 28.3 29.7 24.7 20.8 Catalina Solar Centinela Solar1 21.4 24.0 29.7 35.3 40.6 39.5 38.5 38.6 31.9 30.3 22.1 17.8 Centinela Solar2 7.5 8.4 10.5 12.4 14.2 13.6 13.3 12.6 11.1 10.5 7.6 6.2 Desert Green 0.8 0.9 0.9 1.2 1.3 1.3 1.3 1.3 1.3 1.1 1.2 0.9 0.6 Imperial Valley Solar 1 Midway Solar 1 22.4 24.4 25.1 36.6 36.4 36.5 36.6 37.2 29.2 21.1 1.5 Maricopa West Solar 1 1.8 28.8 35.5 36.4 37.5 51.5 52.4 46.3 37.2 29.2 21.1 1.5 Maricopa West Solar 1 1.8 28.8 35.5 47.5 51.5 52.4 46.3 37.2 29.2 21.1 1.5 Maricopa West Solar 1 27.2 7.7 40.5 51.5 53.5 44.6 66.6 61.4 49.4 45.5 31.1 31.2 22. SolarGen 2 18.3 20.7 27.4 40.5 51.5 50.6 60.6 61.4 49.4 45.5 41.1 30.0 24.4 Cascade SunEdison 2 29.3 34.4 37.4 38.8 36.1 37.9 38.8 38.0 39.9 39.8 38.0 39.9 39.0 30.0 30.9 28.3 29.7 24.7 20.8 20.8 20.8 21.1 17.5 20.8 21.1 17.5 20.8 21.1 17.5 20.8 21.1 17.5 20.8 20.8 20.8 20.9 2
Arlington Valley Solar 19.7 22.8 28.5 35.5 39.8 39.8 38.0 35.9 30.5 29.4 20.4 16.3 Calipatria 2.2 2.4 3.3 3.9 4.9 4.9 5.1 4.6 3.7 3.3 2.3 1.5 Campo Verde 2.4 5.4 5.2 58.3 31.4 33.9 31.7 30.0 30.9 28.3 29.7 24.7 20.8 Catalina Solar 16.0 18.2 21.7 23.9 24.4 24.4 25.1 24.7 21.9 21.1 17.3 13.1 Centinela Solar 2 1.4 24.0 29.7 35.3 40.6 39.5 38.5 38.6 31.9 30.3 22.1 17.8 Centinela Solar 2 7.5 8.4 10.5 12.4 14.2 13.6 13.3 12.6 11.1 10.5 7.6 6.2 Desert Green 0 0.8 0.9 0.9 1.2 1.3 1.3 1.3 1.1 1.1 1.2 0.9 0.6 Imperial Valley Solar 1 24.4 27.6 36.6 43.8 47.6 46.2 43.7 40.6 34.2 32.7 23.2 18.7 Markopa West Solar 2 2.2 2.6 3.6 4.5 5.1 5.1 5.2 4.6 3.7 2.9 2.1 1.5 Maricopa West Solar 3 1.8 2.8 3.5 4.7 5.1 5.3 5.4 4.3 3.3 3.1 1.8 1.3 TallBear Seville 2 2.7 2.7 4.0 5.1 6.0 6.3 6.6 6.1 4.9 4.5 3.1 2.2 Casciar Vi South 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Wister Solar Project 2 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Wister Solar Project 2 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Wind Cascade SunCidson 2.4 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Subtotal 194.7 215.6 27.0 32.1 32.3 35.2 34.9 39.1 47.0 53.6 85.0 60.8
Calipatria 2.2 2.4 3.3 3.9 4.9 4.9 5.1 4.6 3.7 3.3 2.3 1.5 Campo Verde 24.5 24.5 28.3 31.4 33.9 31.7 30.0 30.9 28.3 29.7 24.7 20.8 Catalina Solar 16.0 18.2 21.7 23.9 24.4 24.5 12.7 21.9 21.1 17.3 13.1 Centinela Solar1 21.4 24.0 29.7 35.3 40.6 39.5 38.5 36.4 31.9 30.3 22.1 17.8 Centinela Solar2 7.5 8.4 10.5 12.4 14.2 13.6 13.3 12.6 11.1 10.5 7.6 6.2 Desert Green 0.8 0.9 0.9 1.2 1.3 1.3 1.3 1.1 1.1 1.2 0.9 0.6 Insperial Valley Solar 24.4 27.6 36.6 43.8 47.6 46.2 43.7
Campo Verde
Catalina Solar 16.0 18.2 21.7 23.9 24.4 24.4 25.1 24.7 21.9 21.1 17.3 13.1 Centinela Solar1 21.4 24.0 29.7 35.3 40.6 39.5 38.5 36.4 31.9 30.3 22.1 17.8 Centinela Solar2 7.5 8.4 10.5 12.4 14.2 13.6 13.3 13.3 1.0 10.5 7.6 6.2 Desert Green 0.8 0.9 0.9 1.2 1.3 1.3 1.3 1.1 1.2 0.9 0.6 Imperial Valley Solar I 24.4 27.6 36.6 43.8 47.6 46.2 43.7 40.6 34.2 32.7 23.2 18.7 Midway Solar 2.2 2.6 3.6 4.5 5.1 5.1 5.2 4.6 3.7 2.9 2.1 1.5 Midway Solar 3.1 8.2 8.3 5.4 7.5 5.1 5.1 <
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Centinela Solar2 7.5
Desert Green 0.8 0.9 0.9 1.2 1.3 1.3 1.3 1.1 1.2 0.9 0.6
Imperial Valley Solar 24.4 27.6 36.6 43.8 47.6 46.2 43.7 40.6 34.2 32.7 23.2 18.7 Midway Solar 2.2 2.6 3.6 4.5 5.1 5.1 5.2 4.6 3.7 2.9 2.1 1.5 Maricopa West Solar 1.8 2.8 3.5 4.7 5.1 5.3 5.4 4.3 3.3 3.1 1.8 1.3 TallBear Seville 2.7 2.7 4.0 5.1 6.0 6.3 6.6 6.1 4.9 4.5 3.1 2.2 SolarGen 2 18.3 20.7 27.4 32.8 35.7 34.6 32.8 30.5 25.7 24.5 17.4 14.0 Cascade SunEdison 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Csolar IV South 19.6 20.4 23.7 26.9 28.8 26.8 26.4 26.6 24.5 24.8 20.0 16.3 Csolar IV West 2.16 24.1 31.6 39.4 45.8 44.1 43.0 39.8 33.6 30.5 23.1 18.2 Wister Solar Project 2.4 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Subtotal 194.7 215.6 271.0 321.3 356.2 346.9 337.8 320.8 276.7 265.3 198.4 158.1 WIND Glacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 -
Midway Solar 2.2 2.6 3.6 4.5 5.1 5.2 4.6 3.7 2.9 2.1 1.5 Maricopa West Solar 1.8 2.8 3.5 4.7 5.1 5.3 5.4 4.3 3.3 3.1 1.8 1.3 TallBear Seville 2.7 2.7 4.0 5.1 6.0 6.3 6.6 6.1 4.9 4.5 3.1 2.2 SolarGen 2 18.3 20.7 27.4 32.8 35.7 34.6 32.8 30.5 25.7 24.5 17.4 14.0 Cascade SunEdison 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Csolar IV South 19.6 20.4 23.7 26.9 28.8 26.8 26.4 26.6 24.5 24.8 20.0 16.3 Csolar IV West 21.6 24.1 31.6 39.4 45.8 44.1 43.0 39.8
Maricopa West Solar 1.8 2.8 3.5 4.7 5.1 5.3 5.4 4.3 3.3 3.1 1.8 1.3 TallBear Seville 2.7 2.7 4.0 5.1 6.0 6.3 6.6 6.1 4.9 4.5 3.1 2.2 SolarGen 2 18.3 20.7 27.4 32.8 35.7 34.6 32.8 30.5 25.7 24.5 17.4 14.0 Cascade SunEdison 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Cascade SunEdison 19.6 20.4 23.7 26.9 28.8 26.8 26.4 26.6 24.5 24.8 20.0 16.3 Cascar IV West 21.6 24.1 31.6 39.4 45.8 44.1 43.0 39.8 33.6 30.5 23.1 18.2 Wister Solar Project 2.4 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Subtotal 194.7 215.6 271.0 321.3 356.2 346.9 337.8 320.8 276.7 265.3 198.4 158.1 WIND Cascade SunEdison 2.9 2.5 24.2 23.7 14.5 17.8 20.8 11.7 -
TailBear Seville 2.7 2.7 4.0 5.1 6.0 6.3 6.6 6.1 4.9 4.5 3.1 2.2 Solar Gen 2 18.3 20.7 27.4 32.8 35.7 34.6 32.8 30.5 25.7 24.5 17.4 14.0 Cascade SunEdison 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Csolar IV South 19.6 20.4 23.7 26.9 28.8 26.8 26.4 26.6 24.5 24.8 20.0 16.3 Csolar IV West 21.6 24.1 31.6 39.4 45.8 44.1 43.0 39.8 33.6 30.5 23.1 18.2 Wister Solar Project 2.4 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Subtotal 194.7 215.6 271.0 321.3 356.2 346.9
SolarGen 2 18.3 20.7 27.4 32.8 35.7 34.6 32.8 30.5 25.7 24.5 17.4 14.0
Cascade SunEdison 2.9 3.4 4.7 5.3 6.1 5.9 5.9 5.3 4.5 4.1 3.0 2.4 Csolar IV South 19.6 20.4 23.7 26.9 28.8 26.8 26.4 26.6 24.5 24.8 20.0 16.3 Csolar IV West 21.6 24.1 31.6 39.4 45.8 44.1 43.0 39.8 33.6 30.5 23.1 18.2 Wister Solar Project 2.4 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Subtotal 194.7 215.6 271.0 321.3 356.2 346.9 337.8 320.8 276.7 265.3 198.4 158.1 WIND Glacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 - - Rim Rock (TREC) 72.3 62.9 62.4
Csolar IV South 19.6 20.4 23.7 26.9 28.8 26.8 26.4 26.6 24.5 24.8 20.0 16.3
Csolar IV West 21.6 24.1 31.6 39.4 45.8 44.1 43.0 39.8 33.6 30.5 23.1 18.2
Wister Solar Project 2.4 2.8 3.7 4.4 4.8 4.6 4.4 4.1 3.4 3.3 2.3 1.9 Subtotal 194.7 215.6 271.0 321.3 356.2 346.9 337.8 320.8 276.7 265.3 198.4 158.1 WIND Glacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 - - - Rim Rock (TREC) 72.3 62.9 62.4 57.0 50.9 49.5 34.9 39.1 47.0 53.6 85.0 60.8
Subtotal 194.7 215.6 271.0 321.3 356.2 346.9 337.8 320.8 276.7 265.3 198.4 158.1 WIND Glacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 - - Rim Rock (TREC) 72.3 62.9 62.4 57.0 50.9 49.5 34.9 39.1 47.0 53.6 85.0 60.8
WIND Clacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 - - Rim Rock (TREC) 72.3 62.9 62.4 57.0 50.9 49.5 34.9 39.1 47.0 53.6 85.0 60.8
Glacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 Rim Rock (TREC) 72.3 62.9 62.4 57.0 50.9 49.5 34.9 39.1 47.0 53.6 85.0 60.8
Glacier Wind (TREC) 29.8 28.9 29.9 25.9 24.2 23.7 14.5 17.8 20.8 11.7 Rim Rock (TREC) 72.3 62.9 62.4 57.0 50.9 49.5 34.9 39.1 47.0 53.6 85.0 60.8
Rim Rock (TREC) 72.3 62.9 62.4 57.0 50.9 49.5 34.9 39.1 47.0 53.6 85.0 60.8
Kumeyaay 15.4 14.2 17.2 14.3 14.1 9.8 8.8 7.3 7.7 14.0 13.7 15.3
Coram Energy 1.6 1.8 2.0 3.1 3.4 3.1 2.9 2.7 2.0 1.6 1.0 1.1
Energia Sierra Juarez 34.0 39.2 53.7 54.2 49.3 35.2 29.9 27.1 23.2 34.4 26.1 38.8
Energia Sierra Juarez 2 23.0 26.5 36.4 36.7 33.4 23.8 20.2 18.4 15.7 23.3 17.7 26.3
Manzana Wind 20.7 23.3 26.0 41.0 44.8 40.1 37.6 35.2 26.2 20.8 12.8 14.5
Oak Creek Wind Power 0.3 -
Cootillo Express 18.0 34.0 59.9 79.0 86.7 65.8 57.4 46.8 36.2 31.1 19.0 14.3
Pacific Wind 19.8 24.3 27.1 40.8 40.5 33.9 27.7 24.9 21.1 20.4 12.5 16.7
San Gorgonio 1.0 1.8 3.7 4.4 4.9 4.2 4.2 4.1 3.5 2.6 1.3 1.2
Subtotal 235.8 256.9 318.2 356.5 352.3 289.1 238.1 223.3 203.5 213.4 189.0 189.0
RPS SALES
Subtotal (329.6) (360.1) (442.1) (512.9) (536.4) (483.4) (439.7) (416.6) (366.7) (361.7) (294.0) (266.9)
102.5.0 1000.1 1442.1 1012.3 1000.4 1400.4 1400.1 (410.0) (300.1) (301.1) (294.0) (200.9)
Total Power Purchase Costs (\$000)
Biogas \$ 2,167 \$ 2,012 \$ 1,982 \$ 2,140 \$ 2,311 \$ 2,097 \$ 2,229 \$ 2,417 \$ 2,228 \$ 1,944 \$ 2,248 \$ 1,974 \$
Biogas \$ 2,167 \$ 2,012 \$ 1,982 \$ 2,140 \$ 2,311 \$ 2,097 \$ 2,229 \$ 2,417 \$ 2,228 \$ 1,944 \$ 2,248 \$ 1,974 \$ 0ther \$ 220 \$ 250 \$ 344 \$ 382 \$ 455 \$ 443 \$ 443 \$ 407 \$ 345 \$ 301 \$ 222 \$ 188 \$ \$
Biogas \$ 2,167 \$ 2,012 \$ 1,982 \$ 2,140 \$ 2,311 \$ 2,097 \$ 2,229 \$ 2,417 \$ 2,228 \$ 1,944 \$ 2,248 \$ 1,974 \$ Clther \$ 20,758 \$ 22,983 \$ 29,630 \$ 33,957 \$ 38,199 \$ 37,392 \$ 47,814 \$ 48,024 \$ 3,998 \$ 39,188 \$ 21,397 \$ 16,811
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ATTACHMENT D

(CONFIDENTIAL)

SDG&E 2024 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 2024 CTC DETAIL

CTC - Dispatchable (GWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2024
Goal Line													
Yuma Cogen Associates													
CTC QF - SRAC Priced (GWh)	1												
Aggregation of Hydro Units (SO1)													
Subtotal													
ERRA Expenses (\$000)	1												
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 GREENHOUSE GAS (GHG) DETAIL

2024 Direct Emissions (MT)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2024
California UOG Plants													
California Tolling Generators													
Specified Imports													
Unspecified Imports (Market Purchases)													
Total Direct Emissions													
2024 Indirect Emissions (MT)													
Unspecified Imports (Market Purchases)													
Unbundled RPS after REC Sales													
CHP													
Total Indirect Emissions													
2024 Total Forecasted Emissions													

ATTACHMENT F DECLARATION OF JIMMY ELIAS

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

DECLARATION OF JIMMY ELIAS

A.22-05-XXX

Application of San Diego Gas & Electric Company (U 902-E) for Approval of Its 2024 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 Application for Approval of its 2024 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	Matrix	Reason for Confidentiality and Timing				
Information	Reference					
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				
	VII.B	Contracts and power purchase agreements between utilities and non-affiliated third parties				
JE-6 Table 2	IV.A	Forecast of IOU Generation Resources; confidential for three years				
JE-8	IV.B	Forecast of Qualifying Facility Generation; confidential for three years				
JE-9, JE-10	II.B.1	Generation Cost Forecasts of Utility Retained Generation, confidential for three years,				
	II.B.3	Generation Cost Forecasts of QF Contracts, confidential for three years,				
	II.B.4	Generation Cost Forecasts of Non-QF Bilateral Contracts, confidential for three years,				
	IV.J	Forecast of Wholesale Market Purchases; confidential for the front three years				
JE-11	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				

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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	Matrix	Reason for Confidentiality and Timing
Information	Reference	·
JE-12, JE-13	II.B.1	Generation Cost Forecasts of Utility
		Retained Generation, confidential for three
		years,
	II.B.4	Generation Cost Forecasts of Non-QF
		Bilateral Contracts, confidential for three
		years,
JE-15, JE-16	I.A.4	Long-term Fuel (gas) Buying and Hedging;
		confidential for three years
JE-23 Table 4,	Justification	GHG emissions forecast: Providing these
JE-24	for	forecasts to market participants would
	confidentiality	allow them to know SDG&E's GHG
	provided in	forecasted GHG obligation, thereby
	Declaration of	compromising SDG&E's contractual
	Praem Kodiath	bargaining power such that customer costs
	Kodiatii	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-26	II.B.4	Generation Cost Forecasts of Non-QF
<i>12 20</i>		Bilateral Contracts, confidential for three
		years
Attachment A - SDG&E 2024	XI	Monthly Procurement Costs; confidential
ERRA and LG Expenses		for three years
Attachment B - SDG&E 2024	IV.A	Forecast of IOU Generation Resources;
Generation Portfolio Delivery		confidential for three years
Volumes	IV.E	Forecast of Pre-1/1/2003 Bilateral
		Contracts; confidential for three years
 CTC and non-CTC QF 	IV.B	Forecast of Qualifying Facility Generation;
generation data		confidential for three years
	IV.F	Forecast of Post-1/1/2003 Bilateral
 UOG and non-UOG gas, 		Contracts; confidential for three years
pumped hydro storage,		
and battery storage		
generation data		
	Í	

Location of Protected	Matrix	Reason for Confidentiality and Timing				
Information	Reference	-				
Attachment D - SDG&E 2024	IV.E	Forecast of Pre-1/1/2003 Bilateral				
CTC Qualifying Facility (QF)		Contracts; confidential for three years				
Detail	IV.B	Forecast of Qualifying Facility Generation;				
CTC QF dispatchable and	II.B.4	confidential for three years Generation Cost Forecast of Non-QF				
non-dispatchable data		Bilateral Contracts; confidential for three				
		years				
 Long-Term Power 	II.B.3	Generation Cost Forecast of QF Contracts;				
Purchase CTC data		confidential for three years				
TODA E						
TCBA Expenses data						
Attachment E - SDG&E	Justification	GHG emissions forecasts: Providing these				
Greenhouse Gas (GHG) Detail	for	forecasts to market participants would				
	confidentiality	allow them to know SDG&E's GHG				
	provided in	forecasted GHG obligation, thereby				
	Declaration of	compromising SDG&E's contractual				
	Praem	bargaining power such that customer costs				
	Kodiath	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, 2023, at San Diego, California.

<u>/s/ Jimmy Elia</u>s

Jimmy Elias

Senior Resource Planner

San Diego Gas & Electric Company

ATTACHMENT G

DECLARATION OF PRAEM KODIATH 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 PRAEM KODIATH REGARDING CONFIDENTIALITY OF CERTAIN DATA/DOCUMENTS PURSUANT TO D.16-08-024, et al.

I, Praem Kodiath, do declare as follows:

1. I am the Resource Planning Manager in the Energy Supply Department for San

Diego Gas & Electric Company ("SDG&E"). I have been delegated authority to sign this

declaration by Estela de Llanos, Vice President of Energy Supply. I have reviewed Jimmy

Elias's Prepared Direct Testimony ("Testimony") in support of SDG&E's Application for

Approval of its 2024 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, 2023, in San Diego.

/s/ Praem Kodiath

Praem Kodiath

Resource Planning Manager – Energy Supply

ATTACHMENT A

SDG&E Request for Confidentiality on the following information in its Application for Approval of Its 2024 Electric Procurement Revenue Requirement Forecasts and GHG-Related Forecasts

Location of Protected Information	Legal Authority	Narrative Justification
JE-23 Table 4, JE-24, and Attachment E - SDG&E Greenhouse Gas (GHG) Detail	D.14-10-033; D.16-08-024; D.17-05-035; D.17-09-023; Public Utilities Code Section	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
Application Attachment G, Template D-2: Forecasted Emissions and Costs	454.5(g).	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.