Application No.:	<u>A.23-05-013</u>
Exhibit No.:	SDGE-13 <mark>02</mark>
Witness:	Jimmy Elias

UPDATED 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



October 13 May 15, 2023

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<u>UPDATED</u> PREPARED DIRECT TESTIMONY OF JIMMY ELIAS ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

I. INTRODUCTION

5 This updated testimony describes the resources San Diego Gas & Electric Company 6 ("SDG&E") expects to use in calendar year 2024 to provide electric commodity service to its 7 bundled service customers; provides a forecast of the procurement costs that SDG&E expects to 8 record in 2024 to the Energy Resources Recovery Account ("ERRA"), Transition Cost 9 Balancing Account ("TCBA"), Portfolio Allocation Balancing Account ("PABA"), and Local 10 Generation Balancing Account ("LGBA"); provides a 2024 forecast of SDG&E's San Onofre 11 Generating Station ("SONGS") Unit 1 Offsite Spent Fuel Storage Costs; provides a forecast of 12 2024 total greenhouse gas ("GHG") costs; and provides a 2024 forecast of Tree Mortality Non-13 Bypassable Charge ("TMNBC") costs. SDG&E witness Ms. Hua uses my forecast of ERRA, 14 Competition Transition Charge ("CTC") and Local Generation ("LG") in developing 2024 15 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 16 17 allocation for non-residential and residential customers, as well as rates for the Green Tariff 18 Shared Renewables ("GTSR") program and the Power Charge Indifference Adjustment 19 ("PCIA"). SDG&E witness Ms. Miller uses the forecasted costs and volumes provided in this 20 testimony to calculate PCIA costs to discuss PCIA treatment and related issues.

21

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)

JE - 1

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)

П.

A.

2024 FORECAST OF ENERGY REQUIREMENTS AND SUPPLY RESOURCES

2

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 gift GWh or gifty less than
SDG&E's forecasted bundled energy for 2023 (gifting GWh).

10

B. Supply Resource Forecast

11 After determining the amount of energy that SDG&E's bundled load customers will 12 require in 2024, SDG&E developed a forecast of the supply that will meet that demand. To 13 quantify the generation associated with the supply resources, I used the PLEXOS production cost 14 modeling software. Inputs to this model include the characteristics of the various generation 15 resources, including capacity, heat rate, operating constraints, both fixed and variable Operating 16 and Maintenance ("O&M") costs, and other factors that impact each plant's dispatch and 17 generation costs. The natural gas and electric market price forecasts were derived using a recent 18 (September March 01, 2023) assessment of 2024 market prices. The model simulates a least-cost 19 dispatch of SDG&E's resource portfolio for every hour of 2024 to serve load. The supply 20 resources fall into the following four categories, each of which is addressed in the next four 21 subsections.

- 22
- 23

24

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

JE - 3

1	of contractual arra	ingements, including to	olling contracts, fi	xed energy
2	contracts, and con	tracts for Resource Ad	equacy only. The	e largest of the
3	tolling and fixed e	energy contracts are:		
4	• the Carlsbad Ener	gy Center Power Purch	nase Agreement ('	'PPA") for the
5	output of a 528 M	W simple cycle combu	stion turbine unit	;
6	• the Pio Pico Energ	gy Center PPA for the	output of a 336 M	W simple cycle
7	combustion turbin	e unit;		
8	• the Orange Grove	PPA for the output of	two 48 MW simp	le cycle combustion
9	turbine units;			
10	• the El Cajon Ener	gy Center PPA for the	output of a 48 MV	W simple cycle
11	combustion turbin	e unit; and		
12	• the Escondido End	ergy Center PPA for th	e output of a 48 N	IW simple cycle
13	combustion turbin	e unit.		
14	The forecasted generation	for these contracts is	detailed in Attach	ment B and is
15	summarized in Table 1 below:			
			2 10 100000	-
		Table 1: 0	Generation (GWh)	
		2024	2023	Difference
	El Cajon Energy Center			
	Orange Grove			
	Escondido Energy Center			
	Pio Pico			
0.000	Carisbad Energy Center			
16	lotal			
17		Table		.
17		2024	2023	Difference
18	El Cajon Energy Center	2024	2025	Difference
	Orange Grove			
19	Escondido Energy Center			
	Pio Pico			
	Carlsbad Energy Center			
	Total			
5	392			

1 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 2 contracts, SDG&E shows this capacity as meeting its RA obligation, but SDG&E does not have 3 rights to the energy or ancillary services from these units. For 2024, SDG&E has been granted 4 approval for contracts providing _____MW of RA capacity and sales of _____MW of RA 5 capacity. SDGE expects it will sell additional RA capacity to the market in order to optimize its 6 portfolio. However, due to recently departed load, expiring contracts, anticipated new online 7 capacity, and the need to reserve some capacity for unexpected outages, the exact amount of RA 8 9 sales is difficult to predict and using historical data from prior years likely would not accurately reflect actual sales. Because of this, SDG&E only includes current RA sales contracts in its 10 ERRA forecast.-R.20-05-003² is scheduled to resolve and establish the cost recovery mechanism 11 for the resources in compliance with D.19-11-016³ while D.21-03-056⁴ establishes the cost 12 recovery mechanism for resources as a result of procurement in R.20-11-003.⁵ Some of these 13

¹ 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.

² 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.

³ 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.

⁴ Electric Reliability proceeding directed the IOUs within the CAISO to procure additional resource capacity for the summers of 2021 and 2022.

⁵ During August 2020 the commission instituted the Emergency Reliability Rulemaking Order as a result of extreme heat storms experienced in California

1	contracts were executed prior to the official announcement of CCA load departure and were
2	procured to meet load levels assuming no CCA load departure.
3	2. SDG&E-Owned Dispatchable Generation
4	SDG&E owns several generation facilities, which it uses to meet its bundled customer
5	load, including the following:
6	• the Palomar Energy Center ("Palomar"), a 588 MW combined cycle
7	power plant;
8	• the Desert Star Energy Center ("Desert Star"), a 485 MW combined cycle
9	power plant;
10	• the Miramar Energy Facility ("Miramar I and II"), consisting of two 48
11	MW simple cycle combustion turbine units;
12	• the Battery Storage facilities, consisting of Escondido at 30 MW, El Cajon
13	at 7.5 MW, Top Gun at 30 MW, Fallbrook at 40 MW, Kearny ("Kearny
14	South and North"), consisting of two 10 MW facilities, Melrose at 20
15	MW, Pala-Gomez at 10 MW, Westside Canal at 131 MW, Clairemont at
16	10 MW, Boulevard at 10 MW, Elliott at 10 MW, and Paradise at 10 MW;
17	and
18	• the Cuyamaca Peak Energy Plant, consisting of a 45 MW simple cycle
19	combustion turbine.
20	These units are dispatched by the CAISO for generation and ancillary services ("A/S")
21	awards based on economic merit. ⁶ The forecasted generation for these plants for 2024 is detailed

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

1 in Attachment B and is summarized in Table 2 below:

		Table	e 2: Generation (GWh)	
		2024	2023	Difference	
	Palomar				
	Desert Star				
	Miramar				
	Battery Storage				
	Cuyamaca				
2	Total				
		Table	e 2: Generation (GWh)	
		2024	2023	Difference	
	Palomar				
	Desert Star				
	Miramar				
	Battery Storage				
	Cuyamaca				
3	Total				
					-
4					
5	3. Renewab	le Energy Contract	ts		
6	The 2024 forecast of rend	ewable energy suppl	y from CPUC-appro	oved contracts i	S
7	<u>6,597</u> 6,679_GWh, which include	es 903 GWh of Rene	ewable Energy Cred	lit ("REC") qua	ntities ⁷
8	that are delivered to SDG&E in o	conjunction with exi	isting non-renewable	e imports. This	forecast
9	represents an increase of <u>891</u> 973	GWh from the 202	3 forecast (5,706 GV	Wh). The forec	asted
10	generation associated with SDG	&E's monthly renew	vable contracts is set	t forth in Attach	nment C.
11	For 2024, SDG&E foreca	asts it will receive 1 ,	. <mark>869<u>1,795</u> GWh of b</mark>	oundled renewa	ble
12	energy under 40 contracts with f	acilities that generat	e electricity using w	vind, solar, biog	as, and
	capacity. Thus, the economic b equivalent to using capacity for ⁷ Renewable Energy Credits repr	enefit (and ERRA con A/S.	ntribution) of using er	nergy for generat	ion is
	inclusion mergy creats repr	esent the green attribu	ne of renewable gelle	anon and, while	uncy call

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.

non-pumped hydro technologies. This number considers forecasted RPS sales for 2024 in the 1 2 amount of 4,8104,802 GWh. Forecasted sales represent a reduction of renewable energy credits 3 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 4 5 estimates only and do not represent specific current or future agreements with 6 counterparties. Any sales agreements subsequently entered into by SDG&E will be included in 7 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 8 9 operations in 2024, are derived from generation profiles based on historical data for similar

10 technologies.⁹ The forecasted energy mix from these renewable resources is shown in Table 3

	Table	e 3: Generation (GWh)
	2024	2023	Difference
Solar	3,251	2,311	940
Wind	2,163	1,966	197
Wind RECs	902	1,236	(334)
Biogas	217	165	52
Other	64	28	36
RPS Sales	(4,802)	(3,259)	(1,543)
Total	1,794	2,447	(653)

11 below:

	Table	3: Generation (GW	h)
	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)

12 13 14

⁸ 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.

4.

Competitive Transition Charge (CTC) Contracts

2 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 3 Cogeneration Associates ("YCA") plant, a 55 MW natural gas-fired plant located in Arizona, the 4 5 output of which is imported into CAISO. 6 SDG&E's CTC contracts include a combination of must-take and dispatchable resources. 7 For must-take resources, SDG&E is obligated to pay the contract price for all delivered QF 8 generation and schedule it into the CAISO market; SDG&E has no such obligation with 9 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 10 11 accordance with these terms. The forecast of CTC energy supply for 2024 is 12 The forecasted generation for these plants is detailed in Attachment D. III. 2024 FORECAST OF ERRA EXPENSES 13

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, and hedging costs.

¹⁰ 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.

1	SDG&E expects to incur \$523601-million of ERRA costs in 2024, ¹¹ as reflected in
2	Attachment A. This forecast is \$113-35 million less than the \$636 million forecasted for 2023.
3	The above-market costs of all generation resources that are eligible for cost recovery
4	through PCIA rates will be recorded in PABA going forward. SDG&E's 2024 PABA cost
5	forecast is \$91-114 million. ¹² This compares with a forecast of \$98 million for 2023 filed in the
6	2023 ERRA forecast proceeding.
7	The cost forecasts for specific ERRA items are discussed in greater detail below.
8	A. ISO Load Charges
9	The CAISO supplies and sells to SDG&E the energy and A/S necessary to meet
10	SDG&E's bundled load requirement. Based on forecasted prices for energy and A/S, SDG&E's
11	production cost model forecasts
12	includes the indirect GHG costs embedded in the market price of energy. GHG quantities and
13	costs are presented in Section V.
14	B. ISO Supply Revenues
15	In the CAISO market, all generation from SDG&E's resource portfolio is sold to the
16	CAISO. Based on the market price benchmark for energy, SDG&E forecasts revenues totaling
17	for generation sold in 2024.

¹¹ This amount does not include Franchise Fees and Uncollectible ("FF&U"), nor do any of the other figures in my testimony.

¹² 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.

2

C.

Contracted Energy Purchases

1. Purchased Power Contracts

3 SDG&E's forecast of total costs for non-renewable power purchase and capacity 4 contracts in 2024 is \$. These costs cover capacity payments and variable 5 generation costs for facilities with which SDG&E has contracts. The largest components in this 6 category are RA capacity costs totaling , and midterm reliability procurement ^{13,14} expected to cost 7 projects totaling - This category also includes 8 of RA sale transactions to maintain SDG&E's RA compliance position 9 considering CCA load departure in 2024.

10

2. Renewable Energy Contracts

SDG&E's renewable energy contracts usually contain only an energy payment and no 11 capacity payment. For 2024, SDG&E's renewable energy portfolio will include a cost for all the 12 13 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 14 15 contracts are forecasted to be \$598.4517 million for 2024 and are booked to ERRA with above 16 market costs booked to PABA. This includes \$15777 million of REC sales to maintain an 17 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 18 19 technology type, their costs, and forecasted energy deliveries.

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 Decision 21-06-035 and modify the project's cost recovery mechanism to PCIA vintage 2021.

AL 4096-E which included three projects: Edward Sanborn, Bottleneck, and Cald was approved January 2023

1	Customers who opt into the Green Tariff Shared Renewables ("GTSR") program, which
2	consists of both a Green Tariff ("GT") component and an Enhanced Community Renewables
3	("ECR") component, pay a subset of the renewable costs. ¹⁵ On August 25 2022, the CPUC
4	issued a ruling that suspended the GT program; as a result, the estimated GT customer usage in
5	2024 is 0 GWh. ¹⁶ The Interim Pool Sales for 2024 are forecast to be zero because forecasted
6	customer usage is lower than the forecasted generation from the Midway and Wister solar
7	projects. The estimated GT charges include the cost of local solar ¹⁷ of Carlor , Grid
8	Management Charges ("GMC") of $\frac{1.0720.92}{MWh}$ and Western Renewable Energy
9	Generation Information System ("WREGIS") costs of \$0.00400/MWh. The estimated total
10	energy procurement cost of GT in 2024 is \$0. The estimated ECR customer usage in 2024 is
11	0.00 GWh. The estimated total cost of ECR in 2024 is \$0. Additionally, the solar value
12	adjustment was calculated as a second . ¹⁸ These GTSR rates are illustrative; full details of
13	SDG&E's GTSR proposal are discussed in the testimony of SDG&E witness Rachelle R. Baez.
14	3. Competitive Transition Charge (CTC) Contracts
15	SDG&E's CTC contracts consist of dispatchable capacity or firm capacity PURPA

16 contracts. These contracts include provisions for both energy and capacity payments. The

17 energy payments for QFs that are under firm capacity PURPA contracts are forecasted using

¹⁵ 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.

¹⁶ GT and ECR usage forecasts were developed using average consumption estimates for each customer class in conjunction with program enrollment targets.

¹⁷ Cost of local solar is an average price of projects built specifically to serve the GT component (GT Dedicated Procurement Projects).

¹⁸ 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.

1	SDG&E's Short-Run Avoided Cost ("SRAC") formula. ¹⁹ For the dispatchable contracts,
2	SDG&E pays fuel, variable O&M and capacity payments. These contracts, whether PURPA or
3	dispatchable, are considered CTC contracts ²⁰ and the ERRA expenses are based on delivered
4	energy multiplied by the market price benchmark ("MPB"). Any costs, including capacity
5	payments, greater than the market price benchmark are booked to the TCBA. For the purposes
6	of ERRA accounting, ERRA expenses for CTC contracts are recorded on Line 75 of Attachment
7	A, "Contract Costs (CTC up to market)," and are forecasted to be in 2024.
8	Attachment D details the breakdown of all the units discussed in this section and shows the
9	associated costs, both ERRA and TCBA, and the forecasted energy deliveries. These costs
10	include the indirect GHG cost embedded in the market price that flows through the SDG&E
11	SRAC formula. GHG quantities and costs are presented in Section IV of this testimony.
12	D. Generation Fuel
13 14	1. Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA)
13 14 15	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar,
13 14 15 16	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be²¹ These
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be and the second second
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be 2010 and 21 These forecasted expenses include in lieu of gas fees for Palomar, which are also recovered in ERRA.
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be 2010 100 100 100 100 100 100 100 100 10
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be set t
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be .²¹ These forecasted expenses include in lieu of gas fees for Palomar, which are also recovered in ERRA. ¹⁹ The derivation of the SRAC price for QF contracts is posted monthly on an SDG&E website: http://www2.sdge.com/SRAC/.
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be 21 and 21 These forecasted expenses include in lieu of gas fees for Palomar, which are also recovered in ERRA. ¹⁹ The derivation of the SRAC price for QF contracts is posted monthly on an SDG&E website: http://www2.sdge.com/SRAC/. ²⁰ The CP Kelco contract is not considered a CTC contract for cost allocation purposes.
13 14 15 16 17	 Palomar, Desert Star, Miramar and Cuyamaca (Fuel Expenses Recovered through ERRA) For 2024, the ERRA expense for generation fuel purchased by SDG&E for Palomar, Miramar I & II, Desert Star and Cuyamaca is forecasted to be accessed and the second seco

These costs are calculated based on SDG&E's forecasted fuel usage for this plant and the
 applicable tariffs, Schedule GP-SUR²² and Schedule EG.²³

3

E.

Local Generation

As previously noted, SDG&E has entered into contracts for generation resources which 4 5 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 6 7 Generating Balancing Account. The Carlsbad Energy Center, El Cajon Energy Storage, Top 8 Gun Energy Storage, Fallbrook Energy Storage, Escondido Energy Center, Escondido Energy 9 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 10 11 Storage, Clairemont, Boulevard, Elliot, and Paradise contracts are included in this balancing 12 account and are expected to cost , net of supply ISO revenue. Attachment A 13 details the breakdown of local generation expenses.

14

F. Integrated Resource Planning and Electric Reliability Procurement Tracks

The Integrated Resource Plan (IRP) proceeding, R.16-02-007, issued Decision (D.) 1911-016, 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

²² Customer-procured Gas Franchise Fee Surcharge

²³ Natural Gas Intrastate Transportation Service for Electric Generation Customers.

1 consequence, their allocation of the total procurement need identified. This "on-behalf-of" 2 procurement is additive to the IOU procurement for its own share of the identified need. In 3 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 4 5 cost recovery for procurement undertaken in D.19-11-016, SDG&E requested that the 6 Commission, authorize SDG&E to establish a new memorandum account, the Resource 7 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 8 costs.²⁴ Resolution (E-5241), approving SDG&E's rate implementation plan to recover 9 procurement costs associated with MCAM, was issued January 2023. Therefore, this 2024 10 11 forecast does not have any forecasted dollars in RAPMA. 12 The Integrated Resource Plan (R.20-05-003) issued Decision D.21-06-035 requiring all

13 LSEs in the CAISO to procure a total of at least 11,500 megawatts (MW) of net qualifying 14 capacity (NQC). The decision requires 2,000 MW by 2023, an additional 6,000 MW by 2024, 15 an additional 1,500 MW by 2025, and an additional 2,000 MW by 2026. The Commission 16 determined that SDG&E is responsible for 361 MW of incremental procurement beyond the 17 State's existing portfolio of resources. Due to updated load departure forecasts since the 18 decision, SDG&E filed advice letter 3967-E requesting an adjustment to the capacity 19 requirements to ensure both SDG&E and San Diego Community Power's (SDCP) respective 20obligations more accurately account for expected load migration. SDG&E and SDCP mutually 21 agreed and requested Commission approval to increase SDG&E's total procurement obligation 22 by 114.3 MW and correspondingly decrease SDCP's obligation by the same amount. SDG&E's

²⁴ Advice Letter 3707-E

1 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 2 3 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 4 5 January 2023, and - AL 4189-E which included four projects: Yellow Pine Solar Hybrid, Luna 6 Valley Solar, Daggett Storage and Nova Power Bank Storage was approved August 2023-is still pending commission approval. LSEs were not given the opportunity to opt out of this 7 8 procurement, and procurement costs as a result of this decision are allocated to bundled 9 customers through PCIA. However, the IOUs are designated as backstop procurers in the event 10 an LSE fails to reach their targets, and any backstop procurement costs SDG&E incurs is 11 authorized to be recovered through the CAM cost recovery mechanism. 12 In the Electric Reliability proceeding (R.20-11-003), D.21-03-056 directed the IOUs 13 within the CAISO to procure additional resource capacity for the summers of 2021 and 2022. In 14 a subsequent decision (D.21-12-015), the IOUs were directed to procure additional resource 15 capacity for the summers of 2022 and 2023. Both decisions authorize the IOUs to seek CAM 16 cost recovery for any resulting procurement. 17 G. **CAISO Related Costs**

SDG&E forecasts the miscellaneous CAISO costs to be in 2024. SDG&E 18 19 also forecasts the cost of the Federal Energy Regulatory Commission ("FERC") Fees and 20 Western Renewable Energy Generation Information System to be in 2024.

21

H. **Hedging Costs & Financial Transactions**

22 SDG&E's resource portfolio has substantial exposure to gas price volatility because of 23 fuel requirements for its gas-fired resources, as well as the gas price-based pricing formula for its 24 QF contracts. To manage this exposure, SDG&E engages in hedging activity, consistent with its

CPUC-approved procurement plan,²⁵ and it will book the resulting hedging costs and any 1 realized gains and losses from hedge transactions to ERRA consistent with its CPUC-approved 2 hedge plan. The estimate of hedging costs for 2024 is 3 , calculated as the markedto-market profit/loss of hedges already in place. The profit/loss of these and future hedges 4 placed will rise and fall with market prices. Therefore, the final cost or savings will not be 5 6 known until the settlement process has been completed for the hedging transactions. SDG&E's hedging costs were as of August 28, 2023. had only hedged costs for January through March of 7 8 2024.

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

13

I. Convergence Bids

SDG&E uses convergence bids²⁶ 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.

²⁵ SDG&E's 2014 Long-Term Procurement Plan, Appendix B: Electric and Gas Hedging Strategy.

²⁶ 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)

2 Market participants, including SDG&E, were allocated CRRs by the CAISO for which they can nominate source and sink P-nodes²⁷ to match those in their portfolio. If congestion 3 4 arises between the source and sink P-nodes, the CAISO will pay the market participant holding 5 the CRR the congestion charges to offset the congestion costs incurred. SDG&E expects its 6 CRRs to generate revenues from the CAISO to offset congestion costs incurred within its 7 portfolio. However, expected revenues were not included in the 2024 ERRA forecast because 8 SDG&E assumed congestion-free clearing prices to develop forecasts for load requirement costs 9 and generation revenues. A forecast of CRR revenues would have required SDG&E to forecast 10 offsetting market-congestion prices at various P-nodes over the 2024 period. Since there are no 11 forward market prices for congestion, there does not exist a strong basis to perform this forecast 12 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.

17

K. Inter-Scheduling Coordinator Trades (IST)

In the CAISO market, SDG&E may transact ISTs²⁸ 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

²⁷ 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.

²⁸ 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

7

8

9 SONGS Unit 1 ceased operation on November 30, 1992. Defueling was completed on
10 March 6, 1993. On July 18, 2005, SDG&E submitted AL 1709-E, which removed SONGS Unit
11 1 shutdown O&M expense from the revenue requirement pursuant to D.04-07-022. Southern
12 California Edison Company ("SCE"), the majority owner of SONGS, has decommissioned the
13 Unit 1 facility, and as of 2010, most of the Unit 1 structures and equipment have been removed
14 and disposed of

15 Spent fuel assemblies from SONGS Unit 1 have been stored since 1972 at the General 16 Electric-Hitachi spent fuel storage facility located in Morris, Illinois. There are 270 spent fuel 17 assemblies from SONGS Unit 1 currently in storage at that facility. Because there are no other 18 facilities currently available in the U.S. for the commercial storage of spent nuclear fuel, those 19 270 assemblies are expected to remain at the Morris facility until they are accepted for ultimate 20 disposal by the U.S. Department of Energy. Pursuant to the terms of the storage contract with 21 General Electric-Hitachi, payments are made monthly by SCE, which in turn bills SDG&E for its 22 20% ownership share.

B.

2024 Forecast

SDG&E estimates its 2024 SONGS Unit 1 offsite spent fuel storage expense to be
\$1.285300-million, including adjustments for escalation, in accordance with the GE-Hitachi
spent fuel storage contract.²⁹ 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.

9

V.

2024 FORECAST OF GHG COSTS

10 In this section, my testimony describes the cost forecast for GHG compliance obligations 11 under the California Air Resources Board ("CARB") cap-and-trade program. The cap-and-trade 12 program provides that compliance obligations in the electricity sector are applicable to "first deliverers of electricity."³⁰ Generally, first deliverers of electricity in 2024 are electricity 13 14 generators inside California that emit more than 25,000 metric tons ("MT") of GHG, and 15 importers of electricity from outside of California. SDG&E is the first deliverer for its utility-16 owned generation, for generation it purchases under third-party tolling agreements in California, 17 and for its imports of electricity into California. The cost of allowances and offsets is a direct 18 GHG cost. In Section V.A below, this testimony addresses the direct GHG compliance costs 19 associated with SDG&E utility-owned generation plants, procurement of electricity from third 20 parties under tolling agreements, and electricity imports attributed to SDG&E.

²⁹ SDG&E may recover these costs through ERRA per D.15-12-032.

³⁰ ARB, Article 5: California Cap on Greenhouse Gas Emissions and Market-based Compliance Mechanisms, at 60, Section 95811(b), *available* at <u>https://www.arb.ca.gov/cc/capandtrade/c-t-reg-reader-2013.pdf</u>.

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.

8

A. Direct GHG Emissions

9 Each first deliverer of electricity within California must surrender to CARB one 10 allowance or offset for each MT of carbon dioxide emissions or its equivalent (CO₂e). Under 11 CARB's first deliverer approach, SDG&E will have a direct compliance obligation for GHG 12 emissions from burning natural gas at facilities in its portfolio, including carbon dioxide, 13 methane, and nitrous oxide. SDG&E's expected direct GHG compliance costs were forecasted 14 using the same production simulation model results that produced the ERRA expenses discussed 15 above. The amount of fuel needed for each natural gas fired plant is provided as an output based 16 on the expected operation of the plant, including fuel associated with starts. The fuel volume is 17 then multiplied by an emissions factor of 0.05307 MT of CO₂e per MMBtu to calculate direct emissions obligations for each plant.³¹ The forecast of GHG emissions from SDG&E facilities 18 19 in 2024 is included in Table 4 below.

³¹ 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.

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.³²
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 1.02³³ 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.

³² 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.

³³ Transmission losses on SDG&E's system are measured at approximately 2% of load requirement.

1 The emissions of imported power are shown in Table 4 below. Monthly emissions for all 2 categories are summarized in Attachment E.

3

B. **Indirect GHG Emissions**

4 In addition to the direct GHG costs described above, the cap-and-trade program results in 5 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 6 market, as well as from suppliers under contracts that include market-based prices, will have 7 8 these embedded costs of compliance with the cap-and-trade program built into the electricity 9 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 10 11 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.³⁴ If the total CAISO market purchases exceed the MWh from 12 13 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 14 15 CAISO market purchases, SDG&E used the CARB's default emissions rate, which is 0.428 MT 16 per MWh, and considers 97.5% of the total purchased energy to contain indirect GHG emissions. 17 The rest is considered as imported power with direct GHG emissions as described earlier. 18 In addition to market purchases, contracts with some Combined Heat and Power ("CHP") 19 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

³⁴ 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.

Resource	Fuel (000 MMBtu)	GHG (000 Metric Tons)
Palomar - UOG		
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		
Total Direct Emissions		
	Generation (GWh)	GHG (000 Metric
Resource		Tons)
Net Market Purchases		
Unbundled RPS after REC Sales		
CHP (CP Kelco)		
Total Indirect Emissions		
Total Forecasted Emissions		

C. 2024 GHG Costs

ī	with the of direct GHG costs in LGBA, the of direct GHG costs in
2	ERRA, and of indirect GHG costs.
3	D. 2024 Allowance Auction Revenues
4	The CARB allocates cap-and-trade allowances to SDG&E for 2024. SDG&E is required
5	to place all these allowances for sale in CARB's 2024 quarterly auctions. The forecast of
6	allowance revenues was developed by multiplying the total number of allowances allocated to
7	SDG&E for consignment by a forecast price for the allowances. ³⁵
8	The total allowances that will be allocated to SDG&E for 2024 is expected to be
9	6,435,664 MT. SDG&E's Forecast 2024 Allocated Allowances (MT) represents the SDG&E
10	allocation as established in Table 9-4 of the Cap-and-Trade regulation. This new quantity is
11	reflected in the forecast column within Appendix G template D-1. The allowance price is the
12	same proxy price as used in the calculation of GHG costs, which is $\frac{31.638.3}{MT}$. The
13	allowance auction revenue forecast is the allowances allocated times the allowance price, which
14	totals \$ 203.4246.2 million.
15	A portion of the allowance auction revenue is reserved for clean energy and energy
16	efficiency projects initiated by the Solar on Multifamily Affordable Housing ("SOMAH")
17	Program. ^{36, 37} This program provides financial incentives for installation of solar energy systems

^{1/}

³⁵ 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.

³⁶ 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."

³⁷ 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

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.³⁸ 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.

6 D.18-06-027 (issued on June 22, 2018), adopted new programs to promote the

7 installation of renewable generation among residential customers in disadvantaged communities

8 ("DACs") including the Single-family Solar Homes ("DAC-SASH").³⁹ SDG&E shall fund this

9 program first through available GHG allowance revenues proceeds and if such funds are

10 exhausted, the program will be funded through public purpose programs ("PPP") funds.⁴⁰

11 SDG&E estimates the DAC-SASH program funding for 2024 to be \$1.095 million.

12 VI. 2024 FORECAST OF TMNBC COSTS

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

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

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

This concludes my prepared direct testimony.

41

13

16

⁴¹ 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.

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.

³⁸ D.20-04-012, issued on April 23, 2020, continues authorization of allocation of funds to the SOMAH program through June 30, 2026.

³⁹ D.18-06-027 at OP 1.

⁴⁰ D.18-06-027 at OP 8.

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.

1

ATTACHMENT A

(CONFIDENTIAL)

SDG&E 2024 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 2024 ERRA and LG EXPENSES

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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

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Total Balancing Account Expenses PABA Portion of ENGA Expenses	Streenhouse Gas & Carrying Costs															
PALA Drotion of ERRA Expenses	otal Balancing Account Expenses														*	523,014,428
	ABA Portion of ERRA Expenses														•	90,516,873

Line 4 Contract Costs (non CTC)

and a ladare														
Lake Hooges														
El Calon Enerov Center Peaker Costs														
Course Service Service Service Service														
Urange Grove Peaker Costs														
Olivenhain Hydro														
Other RA Canacity Crists (RA REO, DRAM)														
Call DESS ILL														
Ormat Bottleneck														
Modified CAM PABA portion contract costs														
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RA Sales														
BEC Sales	IC 123 RIGI C	15 681 7781 C	A DATE CHO AL	18 557 7701 C	18 004 1101 C	7 085 0011 5	2 DBU AT 34 5	IS BUG ROOM S	15 TTT ABOV 5	15 657 87AN C	A ADR FOOL C	(A 212 70A)	а Ш - +	20 105
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Green Tartif 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	\$ 669,17	17,999
Line 4 Total														
Line 6 Generation Fuel														
Paloman														
Decer Sty														
Mitamar														
Miramar 2														
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l ins 8 Hodeline Andre 8 Einsneloi Tennesettens														
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Broker Fees														
Line 8 Total														
LG Expenses														
Cristehod Enormy Contee														
El cajon Energy storage														
Top Gun Energy Storage														
Fallbrook Energy Storage														
Escondido Energy Center														
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Data Comer Check Storage														
Westside Canal Storage														
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Grossmont														
Kelco														
Sertinel Energy Center RA														
Clairemont														
Paradise Substation														

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ATTACHMENT B

(CONFIDENTIAL)

SDG&E 2024 GENERATION PORTFOLIO DELIVERY VOLUMES

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2024
CTC													
Non-CTC QF													
TOTAL													
Renewable - Bio Gas	20.4	18.6	18.3	18.6	19.9	17.9	16.7	17.8	12.7	18.7	19.5	17.6	216.8
Renewable - O her	6.5	7.4	10.2	26.8	27.3	39.8	38.9	39.0	36.8	41.6	37.2	37.3	348.7
Renewable - Solar	190.1	207.6	259.8	309.5	344.6	337.1	328.2	312.1	269.6	259.1	194.0	154.8	3,166.5
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	7.2	8.8	9.8	9.8	9.6	8.7	7.1	6.1	4.4	3.4	84.9
Renewable - RPS Sales	(329.7)	(358.2)	(439.3)	(510.9)	(535.3)	(483.4)	(439.7)	(416.6)	(366.7)	(361.6)	(294.0)	(266.9)	(4,802.4)
TOTAL NON-CTC RENEWABLE	127.6	137.6	174.4	209.4	218.8	210.2	191.7	184.4	163.0	177.3	150.1	135.1	2,079.6
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	

			ATTACHI	<i>NENT</i> B - SDG	RE 2024 GENEF	RATION PORTFC	OLIO DELIVER	r volumes (g	(YM				
	Jan	Feb	Mar	Apr	May	nnL	Jul	Aug	Sep	Oct	Nov	Dec	2024
CTC													
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
Midwav-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													
Cuvamaca													
Palomar													
Desert Star													
Grossmont													
Kalco													
lake Hodres													
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													
Vallev Center Energy Storage													
FI Caion Energy Storage													
Top Gun Energy Storage													
Foondide Frence: Mercan													
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Miguel Energy Storage													
Sagebrush Storage													
Melrose Storage													
Pala-Gomez Storade													
Westside Canal Storage													
Clairemont													
Boulevard													
Elliot													
Paradise Substation													
Borrego Advanced Energy Storage													
TOTAL GENERATION													

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

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ATTACHMENT C

SDG&E 2024 RENEWABLE RESOURCE DETAIL

$Attachment \ C$ privileged and confidential pursuant to p.u.c. code 583, 454.5(g), co.56-C and d.06-06.066 as needed

ATTACHMENT C - SDG&E 2024 RENEWABLE RESOURCE DETAIL

Power Purchase Deliveries (GWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2024
BIO GAS													
MM San Diego LLC- Miramar Landfill			, '		. :								
MM San Diego LLC - North City	1.0	1.0	1.1	1.0	0.9	1.0	0.9	1.0	0.9	1.0	0.9	0.8	11.6
Sycamore Energy	1.8	1.7	1.9	0.5	0.4	0.4	0.6	0.6	0.5	0.4	0.5	0.5	9.7
HL Power	17.6	15.9	15.3	17.1	18.6	16.5	15.3	16.2	11.3	17.3	18.0	16.3	195.4
Subtotal	20.4	18.6	18.3	18.6	19.9	17.9	16.7	17.8	12.7	18.7	19.5	17.6	216.8
OTHER											-	ſ	
Small Hydro	0.4	0.4	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.4	5.9
Lake Hodges	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Bright Canyon Hybrid	3.2	3.6	5.0	5.6	6.5	6.3	6.3	5.8	4.9	4.4	3.2	2.6	57.6
Subtotal	3.6	4.0	5.6	6.2	7.2	7.0	7.0	6.4	5.4	4.8	3.6	3.0	63.6
SOLAR											-	ľ	
NRG Borrego Solar	3.8	4.2	5.3	6.2	7.3	7.3	7.3	7.1	5.9	5.4	4.1	3.1	66.9
Sol Orchard	1.5	1.8	2.3	2.8	3.1	3.5	3.8	3.6	2.9	2.7	2.1	1.4	31.4
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	5.9
NLP 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	5.3
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	7.2
Arlington Valley Solar	19.7	222	28.1	35.2	39.5	39.8	38.0	35.9	30.5	29.4	20.4	16.3	355.0
Calibatria	2.2	2.4		39	4.9	4.9	5.1	4.6	3.7	33	23	1.5	42.1
Camponia Campo Varda	246	C VC	0.0 77 6	30.0	33.6	317	30.0	20.05	28.2	7.00	2.17	a Uc	336.0
	10.42	24.2	0.12	30.9	0.00	01.7	30.0	00.0	0.02	23.1	7 1 7	4.04	0.00.0
Cata Ina_Solar	16.0	2.12	21.3	23.0	24.3	24.4	1.02	24.1	21.9	1.12	17.3	13.1	9.062
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	367.5
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	127.9
Desert Green	0.8	0.9	0.9	1.2	1.3	1.3	1.3	1.3	1.1	1.2	0.9	0.6	12.8
Imperial Valley Solar I	24.4	27.2	35.8	43.1	47.2	46.2	43.7	40.6	34.2	32.7	23.2	18.7	417.2
Midwav 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	43.2
Maricona West Solar	18	2.2	3.4	46	5	e. L	5.4	43	e. e	с. Т	18	с. С.	0 07
	0.1			ř.	- c	0.0	1.0	0. T G	0.0	- u	<u>;</u>	<u>;</u> c	7:7F
	1.2	7.7	0.4.U	- 0	0.0	0.0	0.0		4, 10 D	0.4		7.7	7. 1 0
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	314.4
Cascade SunEdison	2.9	3.4	4.6	5.2	6.0	5.9	5.9	5.3	4.5	4.1	3.0	2.4	53.3
Csolar IV South	19.6	20.0	23.1	26.5	28.6	26.8	26.4	26.6	24.5	24.8	20.0	16.3	283.1
Csolar IV West	21.6	23.8	30.9	38.9	45.5	44.1	43.0	39.8	33.6	30.5	23.1	18.2	392.8
Wister Solar Project	2.4	2.7	3.6	4.3	4.7	4.6	4.4	4.1	3.4	3.3	2.3	1.9	41.7
Yellow Pine Solar III PV	-												
Luna Valley Solar													
Subtotal	194.7	212.9	267.0	318.3	354.4	346.9	337.8	320.8	276.7	265.3	198.4	158.1	3.251.4
DNIM													
Occier Wind (TBEC)	0.00	0 00	0.00	75.0	C VC	100	14 5	17 0	0 00	117	_		1 700
	23.0	20.9	29.9	20.9	24.2	23.1	14.0	11.0	20.02	11./	- LC	- 00	221.1
Nam Rock (IREC)	/2.3	62.9	62.4	57.0	50.9	49.5	9.45	39.1	47.0	53.6	85.0	60.8	6/5.4
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	151.8
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	26.2
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	445.2
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	301.4
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	343.0
Oak Creek Wind Power	0.3											,	0.3
Ocotillo 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	548.1
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	309.9
San Gordonio	1.0	1.8	3.7	4.4	4.9	4.2	4.2	4.1	3.5	2.6	1.3	1.2	36.8
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	3.065.1
220000				0000	2	-			2			2.001	
	_												
RPS SALES													
Subtotal	(329.7)	(358.2)	(439.3)	(510.9)	(535.3)	(483.4)	(439.7)	(416.6)	(366.7)	(361.6)	(294.0)	(266.9)	(4,802.4)
Total Power Purchase Costs (\$000)													
Biogas	\$ 2,179	\$ 2,001	\$ 1,982	\$ 2,028	\$ 2,192	\$ 1,988	\$ 2,056	\$ 2,253	\$ 1,572	\$ 2,332	\$ 2,139 \$	\$ 1,898	\$ 24,620
Other	\$ 220	\$ 246	\$ 339	\$ 378	\$ 452	\$ 443	\$ 443	\$ 407	\$ 345	\$ 301	\$ 222 \$	\$ 188	\$ 3,985
Solar	\$ 20,758	\$ 22,652	\$ 29,126	\$ 33,578	\$ 38,003	\$ 37,392	\$ 47,814	\$ 48,024	\$ 39,998	\$ 39,188	\$ 21,397 8	\$ 16,811	\$ 394,740
Wind	\$ 11,708	\$ 15,033	\$ 20,698	\$ 25,624	\$ 26,170	\$ 20,634	\$ 18,656	\$ 16,621	\$ 13,438	\$ 14,389	\$ 9,071 \$	\$ 10,916	\$ 202,957
Wind (REC)	\$ 4,073	\$ 3,634	\$ 3,640	\$ 3,286	\$ 2,964	\$ 2,887	\$ 1,974	\$ 2,253	\$ 2,695	\$ 2,707	\$ 3,740 \$	\$ 2,676	\$ 36,530
RPS Sales	\$ (10,261)	\$ (11,325)	\$ (14,164)	\$ (16,861)	\$ (17,790)	\$ (15,953)	\$ (14,640)	\$ (13,734)	\$ (11,846)	\$ (11,812)	\$ (9,529) 3	\$ (8,679)	\$ (156,593)
GTSR Interim Pool Transfer						- 1 -							- 00 00
Subtotal	\$ 28,678	\$ 32,241	\$ 41,620	\$ 48,032	\$ 51,992	\$ 47,391	\$ 56,304	\$ 55,824	\$ 46,202	\$ 47,104	\$ 27,040 \$	\$ 23,811	\$ 506,239

Power Purchase Deliveries (GWh)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2024
BIO GAS				-									
MM San Diego LLC- Miramar Landrill	, ,	, 7		, 7	, c	, ,	, ,		, 0			, 0	- 7
IMM San Diego LLC - North City Svramnre Energy	0.4 8	1.0	- 7	0.1	0.0	0.1	1 0	1.0	0.9 8 1	1.0	0.1	1.6	0.11
H Power	17.6	15.9	15.3	17.1	18.6	16.5	15.3	16.2	15.5	12.8	18.0	16.3	195.2
Subtotal	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
							Ĩ				Ĩ	Ī	
OTHER				-									
Small Hydro	0.4	0.4	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.4	0.3	0.4	5.9
Lake Hodges	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Bright Canyon Hybrid Educard Scabara Hybrid	Υ.Υ. Υ.Ο.	3.7	0.1 1	1.0	0.0	0.3	0.3	0.0 0	4.9	4.4	3.2	2.6 2.6	6.76
Euward-Sariborn rybrid Subtotal	5.8 6.8	7.8	10.8	11.9	13.8	13.3	13.3	12.1	10.3	9.2	5.2 6.8	5.6	01.3 121.7
SOLAR	r												
NRG Borrego Solar	3.8	4.2	5.4	6.2	7.3	7.3	7.3	7.1	5.9	5.4	4.1	3.1	67.1
Sol Orchard	1.5	1.8	2.3	2.9	3.1	3.5	3.8	3.6	2.9	2.7	2.1	1.4	31.5
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	5.9
NLP 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	5.3
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	7.3
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	16.3	356.5
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	42.1
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	338.7
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	251.9
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	367.5
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	127.9
Desert Green	0.8	0.9	0.9	1.2	1.3	1.3	1.3	1.3	1.1	1.2	0.9	0.6	12.8
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	419.2
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	43.2
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	42.4
TallBear Sevile	2.7	2.7	4.0	5.1	6.0	6.3	6.6	6.1	4.9	4.5	3.1	2.2	54.2
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	314.4
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	53.5
	19.6	20.4	23.7	26.9	28.8	26.8	20.4	26.6	24.5	24.8	20.0	16.3	284.8
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	394.7
Wister Solar Project	2.4	2.8	3.7	4.4	4.8	4.0	4.4 0 700	9.00 B	3.4	3.3 Def 9	400 4	9	41.9
Subtotal	1.84.1	9.612	2/1.0	321.3	2.005	540.9	33/.8	320.8	2/0./	205.3	196.4	1.961	3,202.9
DNIM	F												
Glacier Wind (TREC)	29.8	28.9	29.9	25.9	24.2	23.7	14.5	17.8	20.8	11.7			227.1
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	675.4
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	151.8
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	26.2
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	445.2
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	301.4
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	343.0
Oak Creek Wind Power	0.3	' 7		, ,		- L	. [-	, 0				0.3
Ocoulio Express	18.0	34.0	9.90	19.0	80./	00.0	57.7 7.77	46.8	30.2	31.1	19.0	14.3	548.1
Pacific Wind Son Comonio		24.0	1.12	40.0	0.04	0.0.0	1.12	24.9	21.1	2U.4	C.7	10.7	0.90°.9
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	3.065.1
	-												
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)	(4,810.1)
	г												
Total Power Purchase Costs (\$000)	0					1000							
Blogas	\$ 2,167	\$ 2,012	\$ 1,982 \$	5 Z, 140	\$ 2,311 ***	\$ 2,097	\$ 2,229	\$ 2,41/ ¢ 407	\$ 2,228 ¢ 2,45	\$ 1,944	\$ 2,248 e 220	\$ 1,9/4	\$ 25,748
Orner Solar	\$ 20.758	580 CC \$	\$ 20.630	\$ 33.057	\$ 38 100	\$ 37 302	\$ 47 814	\$ 40/ \$ 48.024	\$ 30 00 R	\$ 30.188	\$ 21307	\$ 16.811	\$ 306.151
Wind	\$ 11.708	\$ 15.088	\$ 20,698	\$ 25.624	\$ 26,170	\$ 20.634	\$ 18,656	\$ 16.621	\$ 13.438	\$ 14.389	\$ 9.071	\$ 10,916	\$ 203.012
Wind (REC)	\$ 4,073	\$ 3,634	\$ 3,640	\$ 3,286	\$ 2,964	\$ 2,887	\$ 1,974	\$ 2,253	\$ 2,695	\$ 2,707	\$ 3,740	\$ 2,676	\$ 36,530
RPS Sales	\$ (5,124)	\$ (5,682)	\$ (6,942)	\$ (8,557)	\$ (8,994)	\$ (7,986)	\$ (7,280)	\$ (6,807)	\$ (5,777)	\$ (5,658)	\$ (4,409)	\$ (4,213)	\$ (77,429)
GTSR Interim Pool Transfer	۔ ج	' ه	' ب	' 9	, 9	' \$	۰ ب	' \$	ه	ج	ھ	ج	۰ ج
Subtotal	\$ 33,803	\$ 38.286	¢ /0 252	¢ 56.832	\$ 61 105	C EE AG7	¢ 63.836	C C C C C C C C C C C C C C C C C C C	¢ 52 927	E2 870	¢ 32.270	¢ 28.352	\$ 588 014

Attachment C

ATTACHMENT D

(CONFIDENTIAL)

SDG&E 2024 CTC QUALIFYING FACILITY DETAIL

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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)													
Aggregation of Hydro Units (SO1)													
Subtotal													
ERRA Expenses (\$000)													
CTC (up to market)													
TCBA Expenses (\$000)													
CTC (above market)													

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

														1
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)														
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 2024 GREENHOUSE GAS (GHG) DETAIL

2024 Direct Emissions (MT)	Jan	Feb	Mar	Apr	May	Jun	۱n	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													
1													

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	NUL	JUL	AUG	SEP	ост	NOV	DEC	2024	_
California UOG Plants		-		-		•			-	-				
≿alifornia Tolling Generators														
boaifiad Imparte														
Inspecified Imports (Market Purchases)														
Total Direct Emission														
024 Indirect Emissions (MT)														
nspecified Imports (Market Purchases)														
Inbundled RPS after REC Sales														
dH.														
Total Indirect Emission														
2024 Total Forecasted Emission														

ATTACHMENT F

DECLARATION OF JIMMY ELIAS

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

DECLARATION OF JIMMY ELIAS

A.23-05-013 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 October 13, 2023 update to 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

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	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.
JE-26	II.B.4	Generation Cost Forecasts of Non-QF
		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		

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; confidential for three years
• CTC QF dispatchable and	II.B.4	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
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 13th day of October, 2023, at San Diego, California.

/s/ Jimmy Elias

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 Adam Pierce, Vice President of Energy Procurement & Rates. I have reviewed Jimmy Elias's Prepared Direct Testimony ("Testimony") in support of SDG&E's October 13, 2023 update to 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.

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 13th day of October, 2023, in San Diego.

<u>/s/ Praem Kodiath</u> Praem Kodiath Resource Planning Manager – Energy Supply

A-1

ATTACHMENT A

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

rity Narrative Justification
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