Application No. _____(Filed January 20, 2017)

PREPARED TESTIMONY OF MICHAEL A. CALABRESE ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY CHAPTER 6

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

January 20, 2017



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PREPARED TESTIMONY OF

MICHAEL A. CALABRESE

CHAPTER 6

I. PURPOSE AND SUMMARY

The purpose of my testimony is to: (1) identify the costs associated with San Diego Gas & Electric Company's ("SDG&E's") SB 350 transportation electrification ("TE") proposals (comprised of six priority review projects and one standard review residential charging program); (2) describe the methodology used by SDG&E in determining the revenue requirements for the proposals; and (3) identify the resulting annual revenue requirements for each of the six proposed priority review projects and the standard review residential charging program. Since the SB 350 TE proposals include services and capital costs above and beyond those authorized by the Commission in SDG&E's most recent general rate case ("GRC"), all costs associated with the SB 350 TE proposals are incremental, and thus additive to any currently authorized levels of revenue requirement.

Consistent with the "Assigned Commissioner's Ruling Regarding the Filing of the Transportation Electrification Applications Pursuant to Senate Bill 350" ("ACR") (issued in Rulemaking 13-11-007), each of the proposed priority review projects are equal to or below \$4 million in costs, while the total of all six projects combined are equal to or less than \$20 million. SDG&E is requesting that the Commission approve, for years 2018 and 2019, capital costs, operations and maintenance ("O&M") costs, and the associated revenue requirements for each of the six priority review projects, as explained in more detail below in Section III and Appendix A of this testimony. SDG&E is also seeking approval to roll forward for recovery in its post 2019

GRC any undepreciated book value of plant balances associated with these six priority review projects.

In addition, SDG&E is requesting that the Commission approve, for the years 2019-2025, the capital costs, O&M costs, and the associated revenue requirement for the standard review residential charging program, as explained in more detail below in Section III and Appendix A of this testimony. SDG&E is also seeking approval to roll forward for recovery in its post 2019 GRC any undepreciated book value of plant balances associated with the standard review residential charging program.

Please refer to the direct testimony of SDG&E witness Norma Jasso in Chapter 7 (Cost Recovery) for details regarding the balancing account requested for recovering the costs of the six priority review projects and one standard review residential charging program.

Amounts reflected throughout the tables and appendix of this testimony may not add to the exact sum totals shown due to rounding associated with supporting spreadsheets.

II. REVENUE REQUIREMENT OVERVIEW

The revenue requirements for each project shown in Appendix A of this testimony are designed to capture all costs necessary to run the SB 350 TE proposals. These costs referred to as capital costs, include asset or equipment costs such as chargers, transformers, and overhead equipment, which provide benefits to its users over multiple years of the assets useful life. O&M costs consumed within a one-year period that are incurred to maintain equipment, as well as providing support to customer outreach and billing, are also part of the revenue requirement.

The capital costs require significant cash outflows, and are financed through contributions from shareholders, as well as borrowed funds from lending institutions.

Shareholders and lenders are paid back for the principal portion of their contributions and loans

through the component of depreciation expense of the revenue requirement. Interest costs on the portion of debt that is borrowed from lenders to finance a portion of the projects are also collected as part of the revenue requirement. In addition, while being paid back for their contribution, shareholders are allowed to earn an after tax return (approved by the Commission) on their investment. Taxes on the return are collected as part of the revenue requirement so that shareholders are made whole on an after tax basis. *See* Section IV.C for more detail.

In summary, the components of the revenue requirement include recovery of O&M costs on a dollar for dollar basis, capital costs through depreciation, shareholder return, interest on debt financing, and taxes (*see* Section IV and Appendix A).

III. COSTS OF SDG&E'S SB 350 TE PROPOSALS

SDG&E's SB 350 TE proposals include six priority review projects: (1) Airport Ground Support Equipment, (2) Electrify Local Highways, (3) Medium Duty/Heavy Duty ("MD/HD") and Forklift Port Electrification, (4) Fleet Delivery Services, (5) Green Taxi/Shuttle/Rideshare, and (6) Dealership Incentives. For more detail regarding the capital and O&M costs of these programs, see the direct testimony of Randy Schimka in Chapter 3 (Priority Review Proposals and Costs). In addition to the six projects identified above, SDG&E's SB 350 TE proposals include a standard review residential charging program. For more detail regarding the capital and O&M costs of the residential charging program, see Randy Schimka's Chapter 4 testimony (Estimated Program Costs (Capital and O&M)).

A. Capital Costs

Table MAC-1 below identifies the capital costs for the six priority review projects for the years 2018 and 2019, prior to adjustments for overheads and escalation factors.

									Table MA	C 1											
							CD2	EA Duos	rams - Priorit		D	icato									
							303	ou rrug	Capital Co		rro,	jects									
						0	Evoludos	مدممام	tion and load			aloe to	~)								
						(1	Excludes	Sescaia	tion and toad	cis, include	cs s	saics ta	x)								
(in \$000)																ъ.					
	Dilet E	rogram		El	ectrily i	Out Ye	ighways				٢	Pilot Pr				Dealei	Out '	centives	•		
Capital Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	ŀ	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Transformer & Install Cost	\$0	\$147	\$0	\$0	\$0	\$0	\$0	\$0		\$147	ŀ	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electrical Service	\$0	\$559	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$559		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0
EVSE Costs	\$0	\$1,758	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,758		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchased & SD Software	\$634	\$211	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$845		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Costs	\$634	\$2.675	\$0	\$0	\$0	\$0	\$0	\$0		\$3,309	f	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		0=,0.0	-				-				-			-			-				
				MD	HD Po		trification	n			-					Fleet D		Service	s		
	_	rogram				Out Ye					Ļ	Pilot Pr	_				Out '				
Capital Costs	2018	2019	2020	2021	2022	2023	2024	2025		Total	ŀ	2018	2019	2020	2021	2022	2023	2024		2026-2050	Total
Transformer & Install Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	\$249	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$249
Electrical Service	\$0	\$850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850		\$0	\$829	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$829
EVSE Costs	\$0	\$991	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$991		\$0	\$1,531	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,531
Purchased & SD Software	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		\$0	L	\$467	\$156	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$623
Total Capital Costs	\$0	\$1,841	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,841	L	\$467	\$2,765	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,232
				т	av:/Chu	ttle/Rid	a a b a u a								A ium o	ut Cuon	ad Cum	port Equ			
	Pilot F	rogram			axi/Siiu	Out Ye					Г	Pilot Pr	noram		Anpo	it Giou	Out	_	принен		
Capital Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	ŀ	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Transformer & Install Cost	\$0	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75	ľ	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electrical Service	\$0	\$441	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$441	1	\$0	\$912	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$912
EVSE Costs	\$0	\$1,318	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,318		\$0	\$1,493	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,493
Purchased & SD Software	\$467	\$156	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$623		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Costs	\$467	\$1,989	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,456	Ī	\$0	\$2,406	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,406
'											-										

Table MAC-2 below identifies the capital costs for the standard review residential charging program for the years 2019 through 2025, prior to adjustments for overheads and escalation factors.

			ograms - R Ca	pital Costs	Charging P	8									
(in \$000)	(Excludes escalation and loaders; Includes sales tax) Residential Home Charging Program Period Out-Years														
	Residential Home Charging														
Capital Costs	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total						
Transformer & Install Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0						
Electrical Service	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0						
EVSE Costs	\$0	\$32,229	\$32,229	\$32,229	\$32,229	\$32,229	\$32,229	\$0	\$193,375						
Purchased & SD Software	\$7,600	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,600						
Total Capital Costs	\$7,600	\$32,229	\$32,229	\$32,229	\$32,229	\$32,229	\$32,229	\$0	\$200,975						

B. O&M Costs

Table MAC-3 below identifies the O&M costs for the six priority review projects, prior to any applied loaders and escalators. O&M consists of ongoing service costs which will be

1 provided by either third party vendors (non-labor) or SDG&E internal labor for customer

2 support, measurement evaluation, advertising, billing support, and equipment maintenance.

O&M costs are also included in Table MAC-3 for years 2020 to 2050 as continued maintenance

is provided for equipment and customer service calls.

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									Table MA	.C-3											
							SB3	50 Prog	rams - Priori		Proj	je cts									
									O&M Co												
						(1	Excludes	sescala	tion and load	ers; Includ	des s	ales ta	x)								
(in \$000)																					
				Ele	ectrify I	Local Hi										Deale		ice ntive	•		
		rogram				Out Ye						Pilot P						Years			
O&M Expenses	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	. L	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Tota
Non-Labor: Customer																					
Support, Meas. & Eval.,																					
Billing, and Maintenance	\$0	\$494	\$23	\$23	\$23	\$23	\$23	\$23	\$581	\$1,214		\$0	\$1,790	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,79
Labor: Customer Support,																					
Meas. & Eval., Billing, and																					
Maintenance	\$0	\$197	\$15	\$15	\$15	\$15	\$15	\$15	\$375	\$662	.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
Total O&M Expenses	\$0	\$691	\$38	\$38	\$38	\$38	\$38	\$38	\$956	\$1,876	L	\$0	\$1,790	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,79
				MD								Fleet D	elivery	Service	s						
	MD HD Port Electrification Pilot Program Out Years										`Г	Pilot P	rogram				Out '	Years			
O&M Expenses	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total		2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Tota
Non-Labor: Customer																					
Support, Meas. & Eval.,																					
Billing, and Maintenance	\$0	\$270	\$24	\$24	\$24	\$24	\$24	\$24	\$587	\$998		\$0	\$262	\$23	\$23	\$23	\$23	\$23	\$23	\$568	\$96
Labor: Customer Support,																					
Meas. & Eval., Billing, and																					
Maintenance	\$0	\$295	\$15	\$15	\$15	\$15	\$15	\$15	\$375	\$760		\$0	\$197	\$15	\$15	\$15	\$15	\$15	\$15	\$375	\$66
Total O&M Expenses	\$0	\$565	\$39	\$39	\$39	\$39	\$39	\$39	\$962	\$1,759		\$0	\$459	\$38	\$38	\$38	\$38	\$38	\$38	\$943	\$1,62
, ,											_										
				T	axi/Shu	ttle/Rid									Airpo	rt Grou		port Equ	iipme nt		
0.034.7		rogram	***	2021		Out Ye			****	m			rogram	***	****	****		Years	****	****	m ·
O&M Expenses	2018 2019 2020 2021 2022 2023 2024 2025 2026								2026-2050	Total	. -	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Tota
Non-Labor: Customer																					
Support, Meas. & Eval.,																					
Billing, and Maintenance								\$569	\$1,520		\$0	\$232	\$26	\$26	\$26	\$26	\$26	\$26	\$648	\$1,03	
Labor: Customer Support,																					
Meas. & Eval., Billing, and																					
Maintenance	\$0	\$196	\$15	\$15	\$15	\$15	\$15	\$15	\$375	\$661	L	\$0	\$202	\$22	\$22	\$22	\$22	\$22	\$22		\$88
Total O&M Expenses	\$0	\$1.011	\$38	\$38	\$38	\$38	\$38	\$38	\$944	\$2,181		\$0	\$434	\$48	\$48	\$48	\$48	\$48	\$48	\$1.198	\$1.91

Table MAC-4 below identifies the O&M costs for the residential charging program as part of the SB 350 TE proposals, prior to any adjustment factors. O&M consists of ongoing service costs which will be provided by either third party vendors (non-labor) or SDG&E internal labor for customer support, measurement evaluation, advertising, billing support, and equipment maintenance. O&M costs included in Table MAC-4 for years 2026 to 2041 are for continued maintenance of charger equipment and customer service calls.

(in \$000)	(SB350 Pro Excludes es	grams - R O	&M Costs	Charging P	O										
(iii \$000)	Residential Home Charging Program Period Out-Years															
		Program Period Out-Years														
O&M Expenses	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total							
Non-Labor: Customer Support, Meas. & Eval.,	00	0175	0155	0155	0175	01.75	0155	02 (000	#25 050							
Billing, and Maintenance Labor: Customer Support, Meas. & Eval., Billing, and	\$0	\$175	\$175	\$175	\$175	\$175	\$175	\$36,000	\$37,050							
Maintenance	\$0	\$3,983	\$3,983	\$3,983	\$3,983	\$3,983	\$3,983	\$0	\$23,900							
Total O&M Expenses	\$0	\$4,158	\$4,158	\$4,158	\$4,158	\$4,158	\$4,158	\$36,000	\$60,950							

C. Total Costs Before Adjustments

Table MAC-5 below identifies the total capital and O&M costs for the six priority review projects before adjustments for loaders and escalation. As stated earlier in this testimony, all six priority review projects are each equal to or below \$4 million in costs for the years 2018 and 2019 (see amounts for items a-f), while the total of all six projects combined for the period 2018 and 2019 are equal to or less than \$20 million (see amount for item g).

									Table MA	C.F.										
							CD 2	EO Duo a	rams - Priori)uninata									
							363		mmary of To		rojects									
						- (Exclude		tion and load		e calec to	(x)								
(in \$000)						(-	Exclude:	Sescaia	uon anu ioau	cis, include	is saits to	ix)								
(m 5000)				Ele	ectrify I	Local H	ighways								Dealer	ship In	centives	6		
	Pilot P	rogram				Out Ye	ears				Pilot P	rogram				Out '	Years			
Total Project Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Capital Costs	\$634	\$2,675	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,309	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
O&M Costs	\$0	\$691	\$38	\$38	\$38	\$38	\$38	\$38	\$956	\$1,876	\$0	\$1,790	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,790
Total Project Costs	\$634	\$3,366	\$38	\$38	\$38	\$38	\$38	\$38	\$956	\$5,185	\$0	\$1,790	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,790
Pilot Program		\$4,000	я								\$1,790	h								
I not I rogium		\$ 1,000	•	MD	HD Po	rt Elect	rificatio	n			41, ,,,	•		Fleet D	elivery	Service	s			
	Pilot P	rogram				Out Ye	ars				Pilot P	rogram				Out '				
Total Project Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Capital Costs	\$0	\$1,841	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,841	\$467	\$2,765	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,232
O&M Costs	\$0	\$565	\$39	\$39	\$39	\$39	\$39	\$39	\$962	\$1,759	\$0	\$459	\$38	\$38	\$38	\$38	\$38	\$38	\$943	\$1,627
Total Project Costs	\$0	\$2,406	\$39	\$39	\$39	\$39	\$39	\$39	\$962	\$3,599	\$467	\$3,224	\$38	\$38	\$38	\$38	\$38	\$38	\$943	\$4,859
Pilot Program		\$2,406	c									\$3,691	d							
, and the second				T	axi/Shu	ttle/Rid	eshare						•	Airpo	rt Grou	nd Sup	port Equ	iipme nt		
	Pilot P	rogram				Out Ye	ears				Pilot P	rogram				Out '	Years			
Total Project Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Capital Costs	\$467	\$1,989	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,456	\$0	\$2,406	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,406
O&M Costs	\$0	\$1,011	\$38	\$38	\$38	\$38	\$38	\$38	\$944	\$2,181	\$0	\$434	\$48	\$48	\$48	\$48	\$48	\$48	\$1,198	\$1,919
Total Project Costs	\$467	\$3,000	\$38	\$38	\$38	\$38	\$38	\$38	\$944	\$4,638	\$0	\$2,840	\$48	\$48	\$48	\$48	\$48	\$48	\$1,198	\$4,325
Pilot Program		\$3,467	e									\$2,840	f							
Total All Pilot Programs	(a-f)	\$18,193	g																	

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Table MAC-6 below identifies the total capital and O&M costs for the residential charging program as part of the SB 350 TE proposals before adjustments for loaders and escalation.

(in \$000)	(SB350 Pro	ograms - R Summa	ĺ	Charging P Costs Includes s	ales tax)									
	Residential Home Charging Program Period Out-Years														
Total Program Costs	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total						
Capital Costs	\$7,600	\$32,229	\$32,229	\$32,229	\$32,229	\$32,229	\$32,229	\$0	\$200,975						
O&M Costs	\$0	\$4,158	\$4,158	\$4,158	\$4,158	\$4,158	\$4,158	\$36,000	\$60,950						
Total Program Costs	\$7,600	\$36,387	\$36,387	\$36,387	\$36,387	\$36,387	\$36,387	\$36,000	\$261,925						
Total Program Costs Year	s 2019-2025	_				-	\$225,925								

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D. Adjustments to Capital and O&M Costs

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1. **Overhead Loaders**

Overhead loaders are used to allocate undistributed company overhead costs across capital projects and O&M. Overhead costs are those activities and services that are associated with direct costs, such as payroll taxes and pension and benefits, or are costs that cannot be economically direct-charged, such as administrative and general overheads. Overhead loaders used to develop the revenue requirement for both the six priority review projects and the residential charging program are for illustrative purposes only and are subject to change. The overhead loader values adhere to the methodology proposed by the Federal Energy Regulatory Commission ("FERC") and were derived using the same methodology used in SDG&E's most recent GRC filing. If the SB 350 TE proposals are approved, then the Commission-approved overhead loaders in effect at the time of approval will be used.

¹ FERC guidelines reference the Statement of Federal Financial Accounting Standards 4: Managerial Cost Accounting Standards and Concepts.

2. Escalation of Future Costs

Cost escalation factors are used to reflect the effect of inflation on SDG&E's costs.

SDG&E's escalation costs were derived using IHS/Market Global Insight's 3rd Quarter 2016 utility cost forecast, which was published in late October 2016.

Tables MAC-7 and MAC-8 show the capital costs for the six priority review projects and the residential charging program adjusted for SDG&E overhead loaders and cost escalation.

									Ta	ble MAC-7										
								SB3	50 Programs	- Priority Re	view Projec	ets								
									C	apital Costs										
								(Incl	udes escalati	on, loaders,	and sales ta	x)								
(in \$000)																				
					Electrify l	Local Hig	hways								De ale	rship Incer	ntives			
	Pilot P	rogram				Out Year	rs				Pilot Pr	ogram				Out Ye	ars			
Capital Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Transformer & Install Cost	\$0	\$231	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$231	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electrical Service	\$0	\$864	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$864	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
EVSE Costs	\$0	\$2,336	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,336	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Purchased & SD Software	\$1,197	\$402	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,599	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Costs	\$1,197	\$3,833	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,029	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
					AD HD Pa	rt Flectri	fication								Fleet I	Delivery Se	rvices			
	Pilot P	rnoram			ID IID I	Out Year					Pilot Pr	noram			riceri	Out Ye				
Capital Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Transformer & Install Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$388	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$388
Electrical Service	\$0	\$1.312	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1.312	SO.	\$1,280	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,280
EVSE Costs	\$0	\$1,477	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,477	\$0	\$2,112	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,112
Purchased & SD Software	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$882	\$296	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,178
Total Capital Costs	\$0	\$2,789	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,789	\$882	\$4,077	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,958
•																				
					Taxi/Shu	ttle/Rides								Airp	ort Gro		t Equipmer	ıt		
	Pilot P		***	****		Out Year			****		Pilot Pr				****	Out Ye			****	
Capital Costs	2018	2019	2020	2021	2022	2023	2024		2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Transformer & Install Cost	\$0	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Electrical Service	\$0	\$681	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$681	\$0	\$1,409	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,409
EVSE Costs	\$0	\$1,809	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,809	\$0	\$2,095	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,095
Purchased & SD Software	\$882	\$296	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,178	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Capital Costs	\$882	\$2,906	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,788	\$0	\$3,504	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3.504

(in £000)			rograms - R Ca	ble MAC-8 esidential C pital Costs on, loaders,	0 0	8									
(m \$000)	\$000) Residential Home Charging Program Period Out-Years														
Capital Costs	2019	2020	2021	2022	<u>u</u> 2023	2024	2025	2026-2050	Total						
Transformer & Install Cost	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0						
Electrical Service	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0						
EVSE Costs	\$0	\$40,671	\$41,881	\$43,141	\$44,441	\$45,768	\$47,133	\$0	\$263,034						
Purchased & SD Software	\$14,709	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,709						
Total Capital Costs	\$14,709	\$40,671	\$41,881	\$43,141	\$44,441	\$45,768	\$47,133	\$0	\$277,744						

Tables MAC-9 and MAC-10 show the O&M costs for the six priority review projects and the residential charging program adjusted for SDG&E overhead loaders and cost escalation.

										ble MAC-9											
								SB3	50 Programs			iew Proje	ets								
									-	&M Costs											
								(Incl	udes escalati	on, loaders	, an	ıd sales ta	x)								
(in \$000)																					
					Electrify 1											De ale	rship Ince				
	Pilot P					Out Year					L	Pilot Pr					Out Ye				
O&M Expenses	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	L	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Non-Labor: Customer																					
Support, Meas. & Eval.,																					
Billing, and Maintenance	\$0	\$587	\$28	\$29	\$29	\$30	\$30	\$31	\$966	\$1,731		\$0	\$2,128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,128
Labor: Customer Support,																					
Meas. & Eval., Billing, and																					
Maintenance	\$0	\$320	\$25	\$26	\$27	\$27	\$28	\$29	\$1,058	\$1,540	L	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total O&M Expenses	\$0	\$907	\$53	\$55	\$56	\$57	\$59	\$60	\$2,024	\$3,271	Ļ	\$0	\$2,128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,128
_	MD HD Port Electrification										_					Fleet	Delivery Se	ervices			
	Pilot Program Out Years											Pilot Pr	ogram				Out Ye	ars			
O&M Expenses	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total		2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Non-Labor: Customer																					
Support, Meas. & Eval.,																					
Billing, and Maintenance	\$0	\$321	\$28	\$29	\$30	\$30	\$31	\$31	\$976	\$1,477		\$0	\$311	\$28	\$28	\$29	\$29	\$30	\$30	\$943	\$1,428
Labor: Customer Support,																					
Meas. & Eval., Billing, and																					
Maintenance	\$0	\$480	\$25	\$26	\$27	\$27	\$28	\$29	\$1,058	\$1,700	L	\$0	\$320	\$25	\$26	\$27	\$27	\$28	\$29	\$1,058	\$1,541
Total O&M Expenses	\$0	\$801	\$54	\$55	\$56	\$58	\$59	\$60	\$2,035	\$3,177		\$0	\$632	\$53	\$54	\$55	\$57	\$58	\$59	\$2,002	\$2,969
•					Taxi/Shu	ttle/Rides	hare				•				Aim	ort Gro	und Sunnoi	rt Equipme	nt		
1	Pilot P	rogram				Out Year	s				ſ	Pilot Pr	ogram				Out Ye				
O&M Expenses	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	ı	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Non-Labor: Customer											ı										
Support, Meas. & Eval.,																					
Billing, and Maintenance	\$0	\$969	\$28	\$28	\$29	\$29	\$30	\$30	\$946	\$2.088		\$0	\$276	\$31	\$32	\$33	\$33	\$34	\$35	\$1.076	\$1,550
Labor: Customer Support,	90	2707	320	320	42)	92)	220	950	47.10	,000		50	-270	401	402	400	955	951	455	\$1,070	21,000
Meas. & Eval., Billing, and																					
Maintenance	\$0	\$319	\$25	\$26	\$27	\$27	\$28	\$29	\$1.058	\$1,539		\$0	\$328	\$37	\$38	\$39	\$40	\$41	\$42	\$1.552	\$2,118
Total O&M Expenses	\$0	\$1,288	\$53	\$54	\$55	\$57	\$58	\$59	\$2,004	\$3,628	ŀ	\$0 \$0	\$604	\$68	\$70	\$72	\$73	\$75	\$77	\$2.628	\$3,669
Tom Ocean Expenses	50	Ψ1,200	322	337	400	301	350	307	Ψ2,004	40,020	L	30	Ψ00 1	300	370	412	313	313	Ψ11	\$2,020	43,007

(in \$000)			rograms - R O	&M Costs	Charging Pro	8									
(m \$000)															
	Program Period Out-Yea														
O&M Expenses	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total						
Non-Labor: Customer Support, Meas. & Eval., Billing, and Maintenance Labor: Customer Support, Meas. & Eval., Billing, and	\$0	\$212	\$217	\$221	\$225	\$229	\$233	\$55,362	\$56,699						
Maintenance	\$0	\$6,677	\$6,878	\$7,074	\$7,272	\$7,475	\$7,684	\$0	\$43,060						
Total O&M Expenses	\$0	\$6,889	\$7,094	\$7,295	\$7,497	\$7,705	\$7,918	\$55,362	\$99,759						

E. Total Costs After Adjustments

After updating the capital and O&M costs with the appropriate adjustment factors noted above, the six priority review projects and the residential charging program for purposes of calculating the revenue requirement are shown in Table MAC-11 and MAC-12 below.

										ole MAC-11										
								SB3	50 Programs	- Priority R	view Pro	ects								
										ry of Total C										
								(Incl	udes escalati	on, loaders,	and sales	tax)								
(in \$000)																				
					Electrify I										De ale	rship Ince				
		rogram				Out Year						Program				Out Ye				
Total Project Costs	2018	2019	2020	2021	2022	2023	2024		2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Capital Costs	\$1,197	\$3,833	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,029	S		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
O&M Costs	\$0	\$907	\$53	\$55	\$56	\$57	\$59	\$60	\$2,024	\$3,271	S	- , .	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,128
Total Project Costs	\$1,197	\$4,740	\$53	\$55	\$56	\$57	\$59	\$60	\$2,024	\$8,300	S	\$2,128	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,128
Pilot Program		\$5,937	a									\$2,128	b							
· ·			=	N	1D HD Po	rt Electri	fication						•		Fleet I	Delivery Se	rvices			
	Pilot P	rogram				Out Year	s				Pilot	rogram				Out Ye	ars			
Total Project Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Capital Costs	\$0	\$2,789	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,789	\$882	\$4,077	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,958
O&M Costs	\$0	\$801	\$54	\$55	\$56	\$58	\$59	\$60	\$2,035	\$3,177	S	\$632	\$53	\$54	\$55	\$57	\$58	\$59	\$2,002	\$2,969
Total Project Costs	\$0	\$3,589	\$54	\$55	\$56	\$58	\$59	\$60	\$2,035	\$5,966	\$882	\$4,708	\$53	\$54	\$55	\$57	\$58	\$59	\$2,002	\$7,927
Pilot Program		\$3,589	c									\$5,590	d							
			=		Taxi/Shu	ttle/Rides	hare						-	Airp	ort Gro	and Suppor	rt Equipmer	nt		
	Pilot P	rogram				Out Year	S				Pilot	rogram				Out Ye	ars			
Total Project Costs	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
Capital Costs	\$882	\$2,906	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,788	SO	\$3,504	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,504
O&M Costs	\$0	\$1,288	\$53	\$54	\$55	\$57	\$58	\$59	\$2,004	\$3,628	S	\$604	\$68	\$70	\$72	\$73	\$75	\$77	\$2,628	\$3,669
Total Project Costs	\$882	\$4,193	\$53	\$54	\$55	\$57	\$58	\$59	\$2,004	\$7,416	\$(\$4,108	\$68	\$70	\$72	\$73	\$75	\$77	\$2,628	\$7,172
Pilot Program		\$5,075	e									\$4,108	f							
Total All Pilot Programs	(a-f)	\$26,428	g																	

Table MAC-12 SB350 Programs - Residential Charging Program Summary of Total Costs												
(in \$000)		(Includ	les escalatio	on, loaders, Residen	and sales ta	,						
		Program Period Out-Years										
Total Program Costs	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total			
Capital Costs	\$14,709	\$40,671	\$41,881	\$43,141	\$44,441	\$45,768	\$47,133	\$0	\$277,744			
O&M Costs	\$0	\$6,889	\$7,094	\$7,295	\$7,497	\$7,705	\$7,918	\$55,362	\$99,759			
Total Program Costs	\$14,709	\$47,561	\$48,975	\$50,435	\$51,938	\$53,473	\$55,051	\$55,362	\$377,503			
Total Program Period Costs Years 2019-2025 \$322,141												

IV. REVENUE REQUIREMENT

The revenue requirement represents the total dollars that need to be collected each year in order to cover the costs and the returns associated with the six priority review projects and the residential charging program. Specifically, the components that make up the revenue requirement are: return of capital (via depreciation), O&M costs, debt and equity returns, federal and state taxes, franchise fees, and uncollectible revenue. The project by project revenue requirements are broken out by component and presented in Appendix A. A more detailed description of the components of the revenue requirement is presented in the sections that follow.

A. Return of Capital

The return of capital is equal to annual book depreciation which uses the straight-line remaining life method.² Consistent with the FERC Code of Federal Regulations, SDG&E assumes the following useful lives for each asset category as presented in Table MAC-13.

Table MAC-13 Capital - FERC Useful Life										
FERC										
Asset Category	Useful Life Years									
Chargers	16									
New Electric Service	55									
Transformers & Installation	34									
Billing System Integration	5									
Severs & Hardware	5									

B. O&M Costs

O&M costs represent the total costs required to ensure the ongoing successful operation of the six priority review projects and the residential charging program. O&M costs are included in the revenue requirement and treated as a pass-through item on a dollar for dollar basis.

C. Return

The current authorized annual return components of the revenue requirement for the six priority review projects and the residential charging program consist of return on debt (5.00 percent), return on preferred stock (6.22 percent), and return on equity (10.30 percent).³ These values are then weighted by their authorized capital allocation percentages and multiplied by the

² This method is consistent with Standard Practice U-4, Determination of Straight-Line Remaining Life Depreciation Accruals. The CPUC issued this standard practice in 1961 as a guide for determining proper depreciation accruals.

³ Adopted in D.12-12-034.

Table-MAC-14 SDG&E Rate of Return (ROR) Calculation										
	Capital Ratio %	Cost	Authorized Weighted Cost							
Long-Term Debt	45.25%	5.00%	2.26%							
Preferred Equity	2.75%	6.22%	0.17%							
Common Equity	52.00%	10.30%	5.36%							
	100.00%		7.79%							

D. Tax

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1. Property Tax

The annual property tax expense for the six priority review projects and the residential charging program is calculated by multiplying the period ending rate base by SDG&E's effective property tax rate of 1.466 percent.⁵

⁴ D.16-06-054 at 216 ("SDG&E defines rate base as, 'the net investment of property, plant, equipment and other assets that SDG&E has acquired or constructed to provide utility services to its customers"). ⁵ Consistent with previous filings, SDG&E's effective property tax rate is calculated by dividing the total property taxes due by county (per SDG&E property tax bills) by the total assessed value by county.

2. Federal and State Income Tax

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a. Federal Income Tax

Federal income tax expense is calculated by multiplying federal Earnings before Income Tax ("EBIT")⁶ by the current corporate federal income tax rate of 35 percent. In accordance with established Commission policy, federal income taxes are computed on a normalized basis for utility ratemaking purposes.⁷ An annual breakout of the federal tax component of the revenue requirement is provided in Appendix A.

b. State Income Tax

State income tax expense is calculated by multiplying state EBIT⁸ by the current California Corporation Franchise Tax rate of 8.84 percent. State income taxes are not normalized, but instead are calculated on a flow-through basis.⁹

E. Franchise Fees and Uncollectible

Franchise Fees and Uncollectible ("FF&U") are the final calculated components of the revenue requirement. Franchise fees cover the payments made to counties and incorporated cities pursuant to local ordinances granting a franchise to the company to place utility property in the public right of way. Uncollectibles represent the estimated uncollectible expenses incurred

⁶ For ratemaking purposes, federal EBIT is calculated as the sum of Common and Preferred Stock Returns minus prior year state taxes, multiplied by a tax gross-up factor. The tax gross-up factor is mathematically required to compute a pre-tax earnings number that, once taxes are applied, results in SDG&E's achievement of its authorized rate of return.

⁷ Normalization requires that any tax adjustments for deferred taxes (due to accelerated federal tax depreciation methods) are not included when calculating the annual required taxes due from ratepayers through the revenue requirement.

⁸ For ratemaking purposes, state EBIT is calculated as the sum of Common and Preferred Stock Returns minus any deferred state income tax, multiplied by a tax gross-up factor. The tax gross-up factor is mathematically required to compute a pre-tax earnings number that, once taxes are applied, results in SDG&E's achievement of its authorized rate of return.

⁹ Consistent with Commission policy, flow-through accounting treats temporary differences between recognition of expenses for book purposes and their tax return treatment as current adjustments to the revenue requirement.

by SDG&E. FF&U is calculated by multiplying the sum of all other revenue requirement
 components by the authorized multipliers¹⁰ for franchise fees and uncollectibles.

V. CONCLUSION

3

The final revenue requirements for the six priority review projects and the residential charging program broken out by component, are summarized in Appendix A. This concludes my direct testimony.

 10 FF&U multipliers used for these revenue requirements are consistent with those supported in D.16-06-054.

VI. STATEMENTS OF QUALIFICATIONS

My name is Michael A. Calabrese. My business address is 8330 Century Park Court, San Diego, California 92123. I am employed by SDG&E as the Business Planning Manager for Clean Transportation. In my current role, I am responsible for managing, directing and coordinating financial analysis and revenue requirements for Electric Transportation projects.

I received a Bachelor of Science degree in Accounting and Management (double major) from California State University, Northridge, in 1981. I am a Certified Public Accountant and a member of the American Institute of Certified Public Accountants and the California Society of Certified Public Accountants. I continue to maintain my license with practice rights by adhering to continuing professional education requirements. I began my employment in June 1981 in the Internal Audit Department of Pacific Lighting Corporation, the then parent company of the Southern California Gas Company. In 1982, I joined Pacific Interstate Company, a regulated subsidiary of Pacific Lighting Corporation, and held various levels of increasing responsibility, including Supervisor of Fixed Assets, Budgeting and Payroll. In February 1994, I joined Southern California Gas Company as a Senior Depreciation Analyst in support of the company's GRC. Since that time I have held various areas of increasing responsibility and most recently Director of Accounting Operations before transferring to SDG&E.

San Diego Gas & Electric Electrify Local Highways Annual Revenue Requirement

(000's)

(000)										
_	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
·									(1)	
FF&U:	(31)	57	47	44	43	40	21	19	268	508
O&M:	-	907	53	55	56	57	59	60	2,024	3,271
Working Capital:	-	-	-	-	-	-	-	-	-	-
Depreciation:	-	338	500	500	500	500	226	171	2,284	5,019
Return on Common:	-	132	226	197	170	144	124	116	1,170	2,280
Return on Preferred	-	4	7	6	5	5	4	4	37	73
Return On Debt:	-	56	95	83	72	61	52	49	494	963
Federal Taxes:	(737)	111	342	280	270	255	46	66	640	1,271
State Taxes:	(186)	10	85	74	72	70	18	19	181	342
Property Taxes:	-	-	27	55	54	47	39	34	351	607
Total	(955)	1,614	1,383	1,295	1,242	1,179	588	537	7,450	14,334

⁽¹⁾ The amounts in this column extend beyond 2050 due to the impact of assets book and tax lives on rate base.

San Diego Gas & Electric Dealership Incentives Annual Revenue Requirement

	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
FF&U:	-	79	-	-	-	-	-	-	-	79
O&M:	-	2,128	-	-	-	-	-	-	-	2,128
Working Capital:	-	-	-	-	-	-	-	-	-	-
Depreciation:	-	-	-	-	-	-	-	-	-	-
Return on Common:	-	-	-	-	-	-	-	-	-	-
Return on Preferred:	-	-	-	-	-	-	-	-	-	-
Return On Debt:	-	-	-	-	-	-	-	-	-	-
Federal Taxes:	-	-	-	-	-	-	-	-	-	-
State Taxes:	-	-	-	-	-	-	-	-	-	-
Property Taxes:	_	-	-	-	-	-	-	-		
Total	_	2,208		_	-	_	-	-	_	2,208

San Diego Gas & Electric MD HD Port Electrification Annual Revenue Requirement

(000's)

	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
									(1)	•
FF&U:	-	36	18	17	17	17	16	16	266	402
O&M:	-	801	54	55	56	58	59	60	2,035	3,177
Working Capital:	-	-	-	-	-	-	-	-	-	-
Depreciation:	-	44	118	118	118	118	118	118	1,917	2,667
Return on Common:	-	53	132	123	117	110	104	98	1,290	2,028
Return on Preferred:	-	2	4	4	4	4	3	3	41	65
Return On Debt:	-	22	56	52	49	47	44	42	545	857
Federal Taxes:	-	33	80	67	66	62	59	55	713	1,134
State Taxes:	-	6	17	14	14	14	14	14	206	299
Property Taxes:	-	-	13	31	34	32	30	29	378	547
Total	-	995	491	481	474	461	447	434	7,390	11,175

⁽¹⁾ The amounts in this column extend beyond 2050 due to the impact of assets book and tax lives on rate base.

San Diego Gas & Electric Fleet Delivery Services Annual Revenue Requirement

	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
									(1)	
FF&U:	(23)	43	42	40	38	36	22	21	313	532
O&M:	-	632	53	54	55	57	58	59	2,002	2,969
Working Capital:	-	-	-	-	-	-	-	-	-	-
Depreciation:	-	265	412	412	412	412	209	169	2,600	4,889
Return on Common:	-	121	226	201	179	157	140	131	1,542	2,697
Return on Preferred:	-	4	7	6	6	5	4	4	49	86
Return On Debt:	-	51	96	85	76	66	59	55	651	1,139
Federal Taxes:	(543)	96	288	237	229	216	61	74	848	1,506
State Taxes:	(137)	9	69	60	59	57	19	20	247	402
Property Taxes:	-	-	26	55	55	49	43	39	456	722
Total	(704)	1,221	1,218	1,149	1,108	1,055	615	572	8,708	14,943

⁽¹⁾ The amounts in this column extend beyond 2050 due to the impact of assets book and tax lives on rate base.

San Diego Gas & Electric Taxi/Shuttle/Rides hare Annual Revenue Requirement

(000's)

	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
									(1)	_
FF&U:	(23)	65	36	34	32	31	17	15	221	427
O&M:	-	1,288	53	54	55	57	58	59	2,004	3,628
Working Capital:	-	-	-	-	-	-	-	-	-	-
Depreciation:	-	251	373	373	373	373	171	131	1,730	3,776
Return on Common:	-	99	170	149	129	109	94	88	889	1,727
Return on Preferred:	-	3	5	5	4	3	3	3	28	55
Return On Debt:	-	42	72	63	54	46	40	37	376	730
Federal Taxes:	(543)	83	255	208	201	189	35	50	486	963
State Taxes:	(137)	7	63	55	54	52	13	14	137	259
Property Taxes:	-	-	20	42	41	35	30	26	267	460
Total	(704)	1,837	1,047	982	944	896	461	423	6,137	12,025

⁽¹⁾ The amounts in this column extend beyond 2050 due to the impact of assets book and tax lives on rate base.

San Diego Gas & Electric Airport Ground Support Equipment Annual Revenue Requirement

,	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
									(1)	
FF&U:	-	30	23	22	22	21	21	20	321	479
O&M:	-	604	68	70	72	73	75	77	2,628	3,669
Working Capital:	-	-	-	-	-	-	-	-	-	-
Depreciation:	-	59	159	159	159	159	159	159	2,369	3,381
Return on Common:	-	66	165	154	146	137	129	121	1,466	2,385
Return on Preferred:	-	2	5	5	5	4	4	4	47	76
Return On Debt:	-	28	70	65	62	58	55	51	619	1,008
Federal Taxes:	-	41	100	84	82	77	73	68	808	1,333
State Taxes:	-	8	22	18	18	18	18	18	231	353
Property Taxes:	-	-	17	39	42	40	38	35	433	643
Total	-	839	630	616	607	589	571	554	8,921	13,326

⁽¹⁾ The amounts in this column extend beyond 2050 due to the impact of assets book and tax lives on rate base.

San Diego Gas & Electric Residential Charging Program Annual Revenue Requirement

_	2018	2019	2020	2021	2022	2023	2024	2025	2026-2050	Total
									(1)	
FF&U:	-	(384)	646	863	1,147	1,424	1,687	1,796	18,139	25,318
O&M:	-	-	6,889	7,094	7,295	7,497	7,705	7,918	55,362	99,759
Working Capital:	-	-	-	-	-	-	-	-	-	-
Depreciation:	-	-	3,986	6,593	9,279	12,047	14,897	14,804	220,475	282,082
Return on Common:	-	-	1,536	3,482	5,353	7,144	8,859	10,576	85,925	122,875
Return on Preferred:	-	-	49	111	171	228	283	338	2,744	3,924
Return On Debt:	-	-	649	1,471	2,261	3,018	3,742	4,468	36,297	51,905
Federal Taxes:	-	(9,063)	4,155	3,655	4,780	5,789	6,489	5,904	46,568	68,276
State Taxes:	-	(2,289)	842	1,011	1,315	1,620	1,860	1,779	12,778	18,917
Property Taxes:	-	-	-	307	874	1,383	1,871	2,337	26,241	33,012
Total	-	(11,736)	18,752	24,587	32,475	40,151	47,392	49,920	504,528	706,070

⁽¹⁾ The amounts in this column extend beyond 2050 due to the impact of assets book and tax lives on rate base.