

**STATE OF NEW HAMPSHIRE
BEFORE THE
PUBLIC UTILITIES COMMISSION**

Docket No. DE 13-063

Granite State Electric Company d/b/a Liberty Utilities

Notice of Intent to File Rate Schedules

ATTACHMENT HSG-1

RESUME OF

HOWARD GORMAN

March 29, 2013

**RESUME OF
HOWARD S. GORMAN
PRESIDENT – HSG GROUP, INC.**

SUMMARY

Mr. Gorman has more than 25 years of experience in the energy industry, including 15 years in rate and regulatory proceedings, and more than 30 years experience overall in accounting, finance and rate and regulatory matters.

Mr. Gorman has testified as an expert witness regarding utility revenue requirements, class cost of service, revenue allocation and rate design. He has testified as an expert witness before the Massachusetts Department of Public Utilities, New Jersey Board of Public Utilities, New York State Public Service Commission, Ontario Energy Board, Pennsylvania Public Utility Commission and Rhode Island Public Utilities Commission.

Mr. Gorman has performed financial analyses of energy infrastructure projects for acquisitions and in support of due diligence for financing, and has negotiated and completed construction and term loans, tax-exempt and taxable bonds and subordinated debt. His experience includes financial modeling, financial analysis and forecasting.

Mr. Gorman also has experience in financial accounting, as Controller and Treasurer of Trigen Energy Corporation, where he built the finance function, managed subsidiary controllers and supported an IPO with NYSE listing.

PROFESSIONAL EMPLOYMENT

2010 - Present	HSG Group, Inc. <ul style="list-style-type: none">• <i>President</i>
1997 - 2010	Black & Veatch Corporation (R.J. Rudden Associates, Inc. before 2005) <ul style="list-style-type: none">• <i>Principal Consultant</i>
1995 - 1997	Independent Consultant
1987 – 1995	Trigen Energy Corporation <ul style="list-style-type: none">• 1987-1993 <i>Corporate Controller</i>; Trigen was formed in 1987• 1993-1995 <i>Treasurer</i>; Trigen had IPO with NYSE listing in 1994
1982 - 1987	Coleco Industries, Inc. <ul style="list-style-type: none">• <i>Director, Treasury</i>
1976 - 1979	Touche Ross & Co. <ul style="list-style-type: none">• <i>Staff Accountant</i>

PROFESSIONAL EXPERIENCE

Rate and Regulatory Support for Utilities

Mr. Gorman has provided rate and regulatory support for numerous electric and gas utilities in several jurisdictions, including performing the following:

- Developing utility revenue requirements
- Performing class cost allocation studies and marginal cost studies
- Recommending class revenue allocation
- Analyzing and recommending rate design structures
- Reviewing interaffiliate cost allocation methodology

A list of rate case dockets in which Mr. Gorman has provided expert testimony is presented in the table '[Expert Testimony](#)' at the end of this resume.

Energy Project Analysis

Mr. Gorman has performed financial analyses of energy-related assets, including electric and gas distribution companies, power plants and transmission operators. These analyses included developing cash flows and financial statements for both regulatory and accounting purposes, and included review of assumptions, analysis of data, modeling, sensitivity testing and stress testing.

Among these analyses are: valuations of power plants, financial projections for cogeneration heat and power plants and energy companies for the purpose of acquisition, valuation of waste-to-energy assets, valuation of a publicly traded multi-jurisdiction utility, and assessment of strategic fit and valuation for a utility considering diversifying into energy-related services.

Energy Project Financing

Mr. Gorman has sourced, structured, negotiated and completed transactions including construction and term loans, tax-exempt bonds, taxable bonds, subordinated debt and asset-backed (receivables and inventory) revolving credit facilities.

Mr. Gorman has supported energy projects in connection with due diligence for financing, including contract review, financial modeling, supply analysis, forward price projections, and economic valuation with cash flow forecasting, and the identification, assessment and mitigation of financial and operating risks for the project and its investors.

Financial Management

Mr. Gorman has extensive experience in financial accounting. As Controller and Treasurer of Trigen Energy Corporation, he built the finance and accounting function, developed reports, procedures and management tools, and managed subsidiary controllers across North America, including an IPO with NYSE listing (1994).

He managed the corporate insurance portfolios and the benefit plans for Trigen Energy Corporation and for Coleco Industries.

Computer Modeling and Decision Support

Mr. Gorman is an accomplished modeler with expertise in spreadsheet and database applications, as well as the use of programming tools. He has developed analytical tools to perform valuations, projections and simulations. These models have been applied to financial analysis, cost allocations, rate design and pricing, forecasting revenue requirements, numerous tax and accounting matters, supply modeling and optimizations. Several of these models have contained interactive modules for automated scenario testing and sensitivity analysis.

PUBLICATIONS AND PRESENTATIONS

“What Wall Street Needs From FERC,” published in R. J. Rudden Financial, LLC’s *Energy Capital Markets Report*, September 2002

“A Balanced Look at Balance Sheets,” published in R.J. Rudden Financial, LLC’s *Energy Capital Markets Report*, June 2002

“From Wires To Riches: Shareholder Value Creation In The T&D Business,” April 2002 (co-authored).

“Assessment of Retail Choice Programs,” presented at the American Gas Association Rate and Strategic Issues Committee Conference, March 2002

“Value Creation With Transmission Assets,” quoted in *Electrical World’s Special Edition Quarter 1, 2002*, March 2002

“The Remarkable Story on Enron,” published in Scudder’s *Annual End of Year Issue*, December 2001

EDUCATION

New York University, B.S., Accounting, 1976

Harvard Business School, MBA, 1981

Expert Testimony Submitted by Howard S. Gorman				
Jurisdiction	Docket	Client	Date	Subject Matter
New York	12-E-0201	Niagara Mohawk Power Corporation	2012	Electric class cost of service; revenue allocation
Rhode Island	RIPUC 4323	Narragansett Electric	2012	Electric class cost of service
New York	11-E-0590	Village of Rockville Centre	2011	Electric revenue requirements; rate design; sales forecast
New York	11-G-0142	Chautauqua Utilities, Inc.	2011	Gas revenue requirements, rate design
Pennsylvania	R-2010-2179103	Kellogg Company (intervener)	2010	Water class cost of service; revenue allocation
Pennsylvania	R-2010-2179522	Duquesne Light Company	2010	Electric class cost of service; revenue allocation; rate design
Pennsylvania	R-2010-2172662	Wellsboro Electric Company	2010	Electric revenue requirements, class cost of service, revenue allocation, rate design
Pennsylvania	R-2010-2172665	Citizens' Electric Company of Lewisburg, PA	2010	Electric revenue requirements, class cost of service, revenue allocation, rate design
Pennsylvania	R-2010-2174470	Valley Energy, Inc.	2010	Gas revenue requirements, rate design
Pennsylvania	R-2010-2161592	PECO Energy (Gas)	2010	Gas class cost of service; revenue allocation; rate design
Pennsylvania	R-2010-2161575	PECO Energy (Electric)	2010	Electric class cost of service; revenue allocation; rate design
New York	10-E-0050	Niagara Mohawk Power Corporation	2010	Electric class cost of service
New York	09-E-0862	Jamestown Board of Public Utilities	2009	Electric revenue requirements
Pennsylvania	R-2009 2139884	Philadelphia Gas Works	2009	Gas class cost of service; revenue allocation

Expert Testimony Submitted by Howard S. Gorman				
Jurisdiction	Docket	Client	Date	Subject Matter
Rhode Island	RIPUC 4065	Narragansett Electric	2009	Electric class cost of service; revenue allocation; rate design
Massachusetts	DPU 09-39	Massachusetts Electric and Nantucket Electric	2009	Electric revenue requirements; adjustment mechanisms; class cost of service; revenue allocation; rate design
Pennsylvania	R-2008-2028394	PECO Energy (Gas)	2008	Gas class cost of service; revenue allocation; rate design
Pennsylvania	R-00072350	Wellsboro Electric Company	2007	Electric revenue requirements; rate design
Pennsylvania	R-00072348	Citizens' Electric Company of Lewisburg, PA	2007	Electric revenue requirements; rate design
Pennsylvania	R-00072349	Valley Energy, Inc.	2007	Gas revenue requirements; rate design
Pennsylvania	R-00061931	Philadelphia Gas Works	2006	Gas class cost of service; revenue allocation; rate design
New York	06-E-0911	Village of Freeport	2006	Electric revenue requirements; rate design
Ontario	EB-2007-0905 et al	Ontario Power Generation Inc.	2006, 2010	Electric Cost allocation methodology
Pennsylvania	R-00061346	Duquesne Light Company	2006	Electric class cost of service; revenue allocation; rate design
Ontario	EB-2005-0378 et al	Hydro One Networks Inc.	2005, 2006, 2008, 2009, 2010, 2012	Electric Transmission and Distribution Cost allocation; OH capitalization rates
New York	03-E-1568	Village of Rockville Centre	2003	Electric revenue requirements; rate design; sales forecast

Expert Testimony Submitted by Howard S. Gorman				
Jurisdiction	Docket	Client	Date	Subject Matter
New Jersey	ER020805 06 et al	Gerdau AmeriSteel aka Co-Steel (intervenor)	2002	Electric cost allocation and rate design; industrial rates
New Jersey	ER020503 03 et al	Gerdau AmeriSteel aka Co-Steel (intervenor)	2002	Electric cost allocation and rate design; industrial rates
Pennsylvania	M- 00021612	Philadelphia Gas Works	2002	Gas rate unbundling
Pennsylvania	R- 00017034	Philadelphia Gas Works	2002	Gas class cost of service
Pennsylvania	R- 00006042	Philadelphia Gas Works	2001	Gas class cost of service; recovery of fixed costs

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Granite State Electric Company
Attachment HSG-2
Marginal Cost Study

Line	Schedule	Reference
1	Total Marginal Costs	
2	Marginal Costs- Summary	Sch. HSG- 1
3		
4	Demand-related Marginal Costs	
5	Marginal Demand-Related Costs	Sch. HSG- 2
6	Primary and Secondary Distribution Capital Costs	Sch. HSG- 3
7	Marginal Demand-related Capital Cost	Sch. HSG- 3A
8	Capital Additions- Demand-related	Sch. HSG- 3B
9	Distribution System Primary-Secondary Split	Sch. HSG- 3C
10	Distribution System Additions for Growth	Sch. HSG- 3D
11	Capital Additions- Street Lighting Plant	Sch. HSG- 3E
12		
13	Customer-related Marginal Costs	
14	Marginal Customer-Related Costs	Sch. HSG- 4
15	Services and Meters Capital Costs	Sch. HSG- 5
16	Weighted Metering, Billing and Collections Costs	Sch. HSG- 6
17	Metering, Billing and Collections Costs Per Customer	Sch. HSG- 6A
18	Historical Metering, Billing and Collections Costs	Sch. HSG- 6B
19		
20	Computation of Rate Class Demands	
21	Rate Class Demands	Sch. HSG- 7
22		
23	Level Carrying Charges	
24	Level Carrying Charge Rates	Sch. HSG- 8
25	Level Carrying Charge Rates- Components	Sch. HSG- 8A
26	O&M Costs	Sch. HSG- 9
27	Other Plant-related Costs	Sch. HSG- 10
28	A&G Costs	Sch. HSG- 11
29	Level Carrying Charge Rate- Distribution Plant	Sch. HSG- 12
30	Level Carrying Charge Rate- Line Transformers	Sch. HSG- 13
31	Level Carrying Charge Rate- Services	Sch. HSG- 14
32	Level Carrying Charge Rate- Meters	Sch. HSG- 15
33	Level Carrying Charge Rate- Street Lights	Sch. HSG- 16
34	Cost Inflation Indices	Sch. HSG- 17

Sum_M
Sch. 1
vFINAL

Granite State Electric Company
Marginal Cost Study
Marginal Costs- Summary

Line	Rate Class	Rate Code	Demand Costs			Customer Costs			Total Costs
			Annual Cost per kW	Non-Coincident Peak Demands	Annual Marginal Demand Cost	Annual Cost per Customer	Customers-Rate Year Forecast	Annual Marginal Customer Cost	Total Annual Cost
			(A) <i>Sch. 2</i>	(B) <i>Sch. 7</i>	(C) = (A) * (B)	(D) <i>Sch. 4</i>	(E)	(F) = (D) * (E)	(G) = (C) + (F)
1	Domestic	D	\$120.84	77,098	\$9,316,614	\$180.64	34,485	\$6,229,440	\$15,546,054
2	Domestic-Opt. Peak	D-10	\$120.84	1,409	170,306	\$180.64	413	74,599	244,905
3	General TOU	G-1	\$108.16	78,783	8,521,124	\$503.08	122	61,453	8,582,578
4	General Long Hour	G-2	\$120.79	34,007	4,107,627	\$341.00	853	290,716	4,398,343
5	General Service	G-3	\$120.84	22,502	2,719,225	\$187.70	5,515	1,035,155	3,754,380
6	Outdoor Lighting	M	\$120.84	1,129	136,403	\$9,269.77	99	917,708	1,054,110
7	Limited All Electric	T	\$120.84	4,742	573,018	\$180.64	1,191	215,192	788,210
8	Ltd Comm Space	V	\$120.84	67	8,102	\$87.65	19	1,680	9,782
9	Total			<u>219,737</u>	<u>\$25,552,419</u>		<u>42,697</u>	<u>\$8,825,943</u>	<u>\$34,378,362</u>
				219,737		Check	42,697		

MDemC **Granite State Electric Company**
Sch. 2 **Marginal Cost Study**
vFINAL **Marginal Demand-Related Costs**

Line	Rate Class	Rate Code	Capital Cost per kW		LCCR (1)		Annual per kW Demand Costs (2)	Monthly per kW Demand Costs (2)
			Primary/Secondary Distribution	Transformers	Primary / Secondary	Line Transformers		
			(A)	(B)	(C)	(D)	(E) = (A*C)+ (B*E)	(F) = (E)/12
1			<i>Sch. 3</i>	<i>Sch. 3</i>	<i>Sch. 8</i>	<i>Sch. 8</i>		
	<i>Source:</i>							
2	Domestic	D	\$459.30	\$104.92	23.25%	12.78%	\$120.84	\$10.07
3	Domestic-Opt. Peak	D-10	\$459.30	\$104.92	23.25%	12.78%	\$120.84	\$10.07
4	General TOU	G-1	\$424.28	\$69.91	23.25%	12.78%	\$108.16	\$9.01
5	General Long Hour	G-2	\$459.16	\$104.78	23.25%	12.78%	\$120.79	\$10.07
6	General Service	G-3	\$459.30	\$104.92	23.25%	12.78%	\$120.84	\$10.07
7	Outdoor Lighting	M	\$459.30	\$104.92	23.25%	12.78%	\$120.84	\$10.07
8	Limited All Electric	T	\$459.30	\$104.92	23.25%	12.78%	\$120.84	\$10.07
9	Ltd Comm Space	V	\$459.30	\$104.92	23.25%	12.78%	\$120.84	\$10.07

11 (1) Level Carrying Charge Rate includes Return on rate base, Income tax, O&M costs, A&G costs, Property tax and Insurance

12 (2) Includes Uncollectibles expense adder of 0.54% (Sch. 6B)

DemCap_ **Granite State Electric Company**
Sch. 3 **Marginal Cost Study**
vFINAL **Primary and Secondary Distribution Capital Costs**

Line	Rate Class	Rate Code	Primary Distribution	Non-Coincident Peak Demands	Secondary Distribution Used	Secondary Distribution	Distribution Capital Costs	Line Transformers	Line Transformers Capital Costs
Capital Cost Per kW, Current \$									
1	Source:		<i>Sch. 3A</i>	<i>Sch. 7</i>				<i>Sch. 3A</i>	
2	Domestic	D	\$354.38	77,098	100.0%	\$104.92	\$459.30	\$83.24	\$104.92
3	Domestic-Opt. Peak	D-10	\$354.38	1,409	100.0%	\$104.92	\$459.30	\$83.24	\$104.92
4	General TOU	G-1	\$354.38	78,783	66.6%	\$69.91	\$424.28	\$55.46	\$69.91
5	General Long Hour	G-2	\$354.38	34,007	99.9%	\$104.78	\$459.16	\$83.13	\$104.78
6	General Service	G-3	\$354.38	22,502	100.0%	\$104.92	\$459.30	\$83.24	\$104.92
7	Outdoor Lighting	M	\$354.38	1,129	100.0%	\$104.92	\$459.30	\$83.24	\$104.92
8	Limited All Electric	T	\$354.38	4,742	100.0%	\$104.92	\$459.30	\$83.24	\$104.92
9	Ltd Comm Space	V	\$354.38	67	100.0%	\$104.92	\$459.30	\$83.24	\$104.92
10				<u>219,737</u>					
11									
12	Overall average			<i>Sch. 3A</i>	1.136	\$92.35		\$73.26	
13	Cost for 100% Secondary					\$104.92		\$83.24	
14									
15	Expected total cost		<i>Line 12 X Line10</i>				\$20,291,919	\$16,098,746	
16	Total cost distributed						\$20,291,919	\$16,098,746	
17									

MDemCap **Granite State Electric Company**
Sch. 3A **Marginal Cost Study**
vFINAL **Marginal Demand-related Capital Cost**

Source: Sch. 3B

Line	Year	Cumulative Investment in Current \$000s			All-Time To Date	Cost per kW			
		Primary	Secondary	Line Xfmr	System Peak MW	Primary	Secondary	Line Xfmr	
1	1997	\$2,058	\$690	\$246	129,000	\$16	\$5	\$2	
2	1998	3,326	1,286	745	142,000	\$23	\$9	\$5	
3	1999	4,664	1,825	1,112	146,062	\$32	\$12	\$8	
4	2000	4,912	1,927	1,155	146,062	\$34	\$13	\$8	
5	2001	7,083	2,266	1,359	164,475	\$43	\$14	\$8	
6	2002	10,502	3,110	2,073	177,380	\$59	\$18	\$12	
7	2003	11,666	3,735	2,742	177,380	\$66	\$21	\$15	
8	2004	13,370	3,918	3,249	177,380	\$75	\$22	\$18	
9	2005	17,475	4,665	3,728	191,871	\$91	\$24	\$19	
10	2006	19,161	5,074	3,981	195,419	\$98	\$26	\$20	
11	2007	22,104	6,023	4,713	195,419	\$113	\$31	\$24	
12	2008	23,725	6,643	4,985	195,419	\$121	\$34	\$26	
13	2009	25,117	7,136	5,200	195,419	\$129	\$37	\$27	
14	2010	26,813	7,554	5,426	196,540	\$136	\$38	\$28	
15	2011	27,835	7,932	5,574	202,705	\$137	\$39	\$27	
16	2012	29,003	8,283	5,868	202,705	\$143	\$41	\$29	
17									
18	Statistical Analysis								
19	Slope= \$ / kW	\$354.38	\$92.35	\$73.26					
20	R-Squared	88.34%	86.34%	89.82%					
21	P-Test	8.07E-22	1.81E-23	1.38E-23					
22	(Probability of no correlation)								

CapAdd_M **Granite State Electric Company**
 Sch. 3B **Marginal Cost Study**
 vFINAL **Capital Additions- Demand-related**
Amounts in \$000s

Granite State Electric Company
 Docket DE 13-063
 Schedule HSG-3B
 Page 1 of 2

Line	Description	Acct	Sch. 3C Primary %	Source: Form 1								
				2011	2010	2009	2008	2007	2006	2005	2004	
1	Land and land rights	360	100%	68	217	0	99	34	77	6	6	
2	Structures and improvements	361	100%	0	0	0	0	0	0	54	0	
3	Station equipment	362	100%	164	2,116	583	417	541	1,755	1,573	1,232	
4	Poles, towers and fixtures	364	59%	968	1,108	1,298	1,164	1,254	1,159	392	49	
5	Overhead conductors, devices	365	71%	1,545	2,700	1,491	2,545	2,429	2,274	1,187	367	
6	Underground conduit	366	80%	132	34	186	117	449	343	350	293	
7	Underground conductors, devices	367	88%	626	205	513	207	1,268	1,424	704	230	
8	Line transformers	368	0%	370	682	465	552	1,123	850	421	586	
9	Total			<u>3,873</u>	<u>7,062</u>	<u>4,536</u>	<u>5,101</u>	<u>7,098</u>	<u>7,882</u>	<u>4,687</u>	<u>2,763</u>	
10	Additions at Historic Cost											
11	Primary			2,558	5,117	3,007	3,291	4,518	5,660	3,609	1,966	
12	Secondary			945	1,263	1,064	1,258	1,457	1,372	657	211	
13	Line Transformers			370	682	465	552	1,123	850	421	586	
14	Total			<u>3,873</u>	<u>7,062</u>	<u>4,536</u>	<u>5,101</u>	<u>7,098</u>	<u>7,882</u>	<u>4,687</u>	<u>2,763</u>	
15	Cost inflation- Handy Whitman			1.04	1.08	1.11	1.15	1.29	1.43	1.57	1.70	
16	Additions at Current Cost											
17	Primary		Total	2,649	5,547	3,350	3,799	5,806	8,106	5,663	3,349	
18	Secondary			979	1,369	1,185	1,453	1,873	1,965	1,030	360	
19	Line Transformers			383	739	518	637	1,443	1,217	661	998	
20	Total			<u>4,012</u>	<u>7,655</u>	<u>5,053</u>	<u>5,890</u>	<u>9,123</u>	<u>11,288</u>	<u>7,354</u>	<u>4,708</u>	
21												
22	Portion of Additions Due to Growth			Sch. 3D	38.6%	30.6%	41.5%	42.7%	50.7%	20.8%	72.5%	50.9%
23	Current Cost of Additions Due to Growth			Total								
24	Primary	67.2%	29,003	1,022	1,696	1,392	1,621	2,943	1,686	4,106	1,703	
25	Secondary	19.2%	8,283	378	419	492	620	949	409	747	183	
26	Line Transformers	13.6%	5,868	148	226	215	272	732	253	479	508	
27	Total	100.0%	43,154	<u>1,547</u>	<u>2,341</u>	<u>2,099</u>	<u>2,513</u>	<u>4,624</u>	<u>2,348</u>	<u>5,332</u>	<u>2,394</u>	
28	Cumulative Current Cost of Additions Due to Growth											
29	Primary			27,835	26,813	25,117	23,725	22,104	19,161	17,475	13,370	
30	Secondary			7,932	7,554	7,136	6,643	6,023	5,074	4,665	3,918	
31	Line Transformers			5,574	5,426	5,200	4,985	4,713	3,981	3,728	3,249	
32	Total			<u>41,341</u>	<u>39,793</u>	<u>37,453</u>	<u>35,354</u>	<u>32,840</u>	<u>28,217</u>	<u>25,869</u>	<u>20,537</u>	

CapAdd_M **Granite State Electric Company**
 Sch. 3B **Marginal Cost Study**
 vFINAL **Capital Additions- Demand-related**
Amounts in \$000s

Granite State Electric Company
 Docket DE 13-063
 Schedule HSG-3B
 Page 2 of 2

Line	Description	Acct	Sch. 3C Primary %	2003	2002	2001	2000	1999	1998	1997	1996
1	Land and land rights	360	100%	18	294	19	134	6	8	8	
2	Structures and improvements	361	100%	0	0	150	0	0	0	0	
3	Station equipment	362	100%	42	342	1,790	208	150	22	467	
4	Poles, towers and fixtures	364	59%	775	554	605	1,201	783	785	778	
5	Overhead conductors, devices	365	71%	851	459	500	1,170	625	871	944	
6	Underground conduit	366	80%	(286)	655	462	106	331	107	334	
7	Underground conductors, devices	367	88%	83	449	781	166	149	115	177	
8	Line transformers	368	0%	554	461	350	367	400	511	242	
9	Total			2,037	3,214	4,657	3,352	2,444	2,419	2,950	
10	Additions at Historic Cost										
11	Primary			965	2,208	3,727	2,111	1,457	1,298	2,028	32,057
12	Secondary			518	545	580	874	587	610	680	11,521
13	Line Transformers			554	461	350	367	400	511	242	9,447
14	Total			2,037	3,214	4,657	3,352	2,444	2,419	2,950	53,025
15	Cost inflation- Handy Whitman			1.79	1.82	1.88	1.94	1.97	2.00	2.05	2.05
16	Additions at Current Cost										
17	Primary		Total	1,723	4,014	7,015	4,102	2,877	2,591	4,153	65,644
18	Secondary			926	991	1,092	1,698	1,159	1,217	1,393	23,592
19	Line Transformers			990	838	659	713	790	1,020	496	19,345
20	Total			3,639	5,843	8,766	6,513	4,826	4,827	6,041	108,581
21											
22	Portion of Additions Due to Growth			Sch. 3D	67.6%	85.2%	30.9%	6.0%	46.5%	48.9%	49.6%
23	Current Cost of Additions Due to Growth			Total							
24	Primary	67.2%	29,003	1,164	3,419	2,171	248	1,338	1,268	2,058	
25	Secondary	19.2%	8,283	626	844	338	103	539	596	690	
26	Line Transformers	13.6%	5,868	669	714	204	43	367	499	246	
27	Total	100.0%	43,154	2,459	4,977	2,713	394	2,244	2,363	2,994	
28	Cumulative Current Cost of Additions Due to Growth										
29	Primary			11,666	10,502	7,083	4,912	4,664	3,326	2,058	
30	Secondary			3,735	3,110	2,266	1,927	1,825	1,286	690	
31	Line Transformers			2,742	2,073	1,359	1,155	1,112	745	246	
32	Total			18,143	15,685	10,708	7,995	7,601	5,357	2,994	

PriSec_M
Sch. 3C
vFINAL

Granite State Electric Company
Marginal Cost Study
Distribution System Primary-Secondary Split

Line

Account 364- Poles, Towers and Fixtures				
	Function	Conductor Rating	Circuit Miles	%
1				
2				
3	Subtransmission	>15kV	9	0.6%
4	Primary	2.4kV to 15kV	906	58.0%
5	Secondary	> 2.4kV	648	41.5%
6			<u>1,563</u>	<u>100.0%</u>
7				
Account 365- Overhead Conductors and Devices				
	Function	Conductor Rating	Conductor Miles	%
8				
9				
10	Subtransmission	>15kV	26	1.1%
11	Primary	2.4kV to 15kV	1,595	70.3%
12	Secondary	> 2.4kV	648	28.6%
13			<u>2,269</u>	<u>100.0%</u>
14				
Account 366- Underground Conduits				
	Function	Conduit Rating	Conduit Miles	%
15				
16				
17	Subtransmission	>15kV	5	4.5%
18	Primary	2.4kV to 15kV	77	75.7%
19	Secondary	> 2.4kV	20	19.8%
20			<u>102</u>	<u>100.0%</u>
21				
Account 367- Underground Conductors				
	Function	Conductor Rating	Conductor Miles (a)	%
22				
23				
24	Subtransmission	>15kV	16	4.3%
25	Primary	2.4kV to 15kV	321	83.6%
26	Secondary	> 2.4kV	47	12.2%
27			<u>384</u>	<u>100.0%</u>
28	(a) Excluding Neutrals			

CapEXG_ Granite State Electric Company
Sch. 3D Marginal Cost Study
vFINAL Distribution System Additions for Growth

Line	Description	Total	2012	2011	2010	2009	2008	2007	2006	2005
1	New Business - Commercial	7,058,386	490,088	485,002	362,619	312,632	443,572	481,448	376,338	296,742
2	New Business - Residential	10,158,805	479,335	542,747	468,432	702,527	1,352,460	729,744	455,525	642,089
3	Less: Service Drops	(4,783,750)	(394,750)	(453,000)	(391,000)	(389,000)	(346,000)	(292,000)	(248,000)	(440,000)
4	Transformers Materials	4,452,004	243,504	239,434	284,870	400,553	582,868	359,499	338,940	244,661
5	Less: Asset replacement portion	(1,484,001)	(81,168)	(79,811)	(94,957)	(133,518)	(194,289)	(119,833)	(112,980)	(81,554)
6	Load Relief	13,706,110	1,076,197	759,433	1,529,253	991,165	337,863	2,438,713	829,531	2,736,090
7	Total Capital for Growth	<u>29,107,554</u>	<u>1,813,206</u>	<u>1,493,805</u>	<u>2,159,217</u>	<u>1,884,359</u>	<u>2,176,474</u>	<u>3,597,571</u>	<u>1,639,354</u>	<u>3,398,028</u>
8										
9	Distribution Capital Additions	67,158,885	3,083,885	3,873,000	7,062,000	4,536,000	5,101,000	7,098,000	7,882,000	4,687,000
10	<i>From Sch. 3B</i>									
11	Portion of Distribution Capital Additions Due to Growth	43.3%	58.8%	38.6%	30.6%	41.5%	42.7%	50.7%	20.8%	72.5%

CapEXG_ Granite State Electric Company
Sch. 3D Marginal Cost Study
vFINAL Distribution System Additions for Growth

Line	Description	Total	2004	2003	2002	2001	2000	1999	1998	1997
1	New Business - Commercial	7,058,386	245,429	267,487	316,639	825,000	264,000	722,390	596,000	573,000
2	New Business - Residential	10,158,805	1,253,512	1,056,213	786,202	309,000	77,000	375,019	242,000	687,000
3	Less: Service Drops	(4,783,750)	(381,000)	(291,000)	(161,000)	(104,000)	(252,000)	(298,000)	(154,000)	(189,000)
4	Transformers Materials	4,452,004	(26)	392,676	225,126	239,000	49,000	267,899	378,000	206,000
5	Less: Asset replacement portion	(1,484,001)	9	(130,892)	(75,042)	(79,667)	(16,333)	(89,300)	(126,000)	(68,667)
6	Load Relief	13,706,110	287,158	81,968	1,645,565	252,000	81,000	158,174	248,000	254,000
7	Total Capital for Growth	<u>29,107,554</u>	<u>1,405,082</u>	<u>1,376,452</u>	<u>2,737,490</u>	<u>1,441,333</u>	<u>202,667</u>	<u>1,136,182</u>	<u>1,184,000</u>	<u>1,462,333</u>
8										
9	Distribution Capital Additions	67,158,885	2,763,000	2,037,000	3,214,000	4,657,000	3,352,000	2,444,000	2,419,000	2,950,000
10	<i>From Sch. 3B</i>									
11	Portion of Distribution Capital Additions Due to Growth	43.3%	50.9%	67.6%	85.2%	30.9%	6.0%	46.5%	48.9%	49.6%

SL_P_M **Granite State Electric Company**
Sch. 3E **Marginal Cost Study**
vFINAL **Capital Additions- Street Lighting Plant**
Amounts in \$000s

<i>Balance 12/31 Source: Form 1</i>												
Line	Description	Acct	Primary %	2011	2011	2010	2009	2008	2007	2006	2005	2004
1	Street Lighting and Signals	360	0%	4,284	371	211	(42)	279	185	128	101	39
2	Total			4,284	371	211	(42)	279	185	128	101	39
3												
4	Additions at Historic Cost			12/31/96								
5	Secondary			2,056	371	211	(42)	279	185	128	101	39
6				2,056	371	211	(42)	279	185	128	101	39
7	Cost inflation- Handy Whitman			2.05	1.04	1.08	1.11	1.15	1.29	1.43	1.57	1.70
8												
9	Additions at Current Cost		Total	12/31/96								
10	Secondary			7,514	4,210	384	229	(47)	322	238	158	66
11				7,514	4,210	384	229	(47)	322	238	158	66
12	Number of customers					99						

SL_P_M **Granite State Electric Company**
Sch. 3E **Marginal Cost Study**
vFINAL **Capital Additions- Street Lighting Plant**
Amounts in \$000s

Line	Description	Acct	Primary %	Balance 12/31							
				2011	2003	2002	2001	2000	1999	1998	1997
1	Street Lighting and Signals	360	0%	4,284	169	117	169	108	153	120	119
2	Total			4,284	169	117	169	108	153	120	119
3											
4	Additions at Historic Cost			12/31/96							
5	Secondary			2,056	169	117	169	108	153	120	119
6				2,056	169	117	169	108	153	120	119
7	Cost inflation- Handy Whitman			2.05	1.79	1.82	1.88	1.94	1.97	2.00	2.05
8											
9	Additions at Current Cost		Total	12/31/96							
10	Secondary		7,514	4,210	302	213	318	210	302	239	244
11			7,514	4,210	302	213	318	210	302	239	244
12	Number of customers		99								

Customer: **Granite State Electric Company**
Sch. 4 **Marginal Cost Study**
vFINAL **Marginal Customer-Related Costs**

Line	Rate Class	Services			Meters			Metering, Billing, Collections (2)	Annual per Customer (H) = (C) + (F) + (G)	Monthly per Customer (I) = (H)/12
		Capital Cost per Customer (A)	LCCR (1) (B)	Annual Cost (2) (C) = (A) * (B)	Capital Cost per Customer (D)	LCCR (1) (E)	Annual Cost (2) (F) = (D) * (E)			
1	<i>Source:</i>	<i>Sch. 5</i>	<i>Sch. 8</i>		<i>Sch. 5</i>	<i>Sch. 8</i>		<i>Sch. 6</i>		
2	Domestic	\$565.67	12.77%	\$72.64	\$111.33	13.41%	\$15.01	\$92.99	\$180.64	\$15.05
3	Domestic-Opt. Peak	\$565.67	12.77%	\$72.64	\$111.33	13.41%	\$15.01	\$92.99	\$180.64	\$15.05
4	General TOU	\$658.00	12.77%	\$84.50	\$1,725.33	13.41%	\$232.61	\$185.98	\$503.08	\$41.92
5	General Long Hour	\$658.00	12.77%	\$84.50	\$868.00	13.41%	\$117.02	\$139.48	\$341.00	\$28.42
6	General Service	\$565.67	12.77%	\$72.64	\$163.67	13.41%	\$22.07	\$92.99	\$187.70	\$15.64
7	Outdoor Lighting (3)	\$75,904	11.96%	\$9,130				\$139.48	\$9,270	\$772
8	Limited All Electric	\$565.67	12.77%	\$72.64	\$111.33	13.41%	\$15.01	\$92.99	\$180.64	\$15.05
9	Ltd Comm Space	\$565.67	12.77%	\$72.64	\$111.33	13.41%	\$15.01	-	\$87.65	\$7.30

11 (1) Level Carrying Charge Rate includes Return on rate base, Income tax, O&M costs, A&G costs, Property tax and Insurance

12 (2) Includes Uncollectibles expense adder of 0.54% (Sch. 6B)

13 (3) Capital cost from Sch. 3E, based on 99 customers; LCCR is for Lighting only

14

ServMtrCa **Granite State Electric Company**
Sch. 5 **Marginal Cost Study**
vFINAL **Services and Meters Capital Costs**

Line	Rate Class	In-cludes	Customers	Current Cost per Service (a)	Services per Customer	Services Cost per Customer	Total Services Cost	Current Cost per Meter (a)	Total Meters Cost
1	Domestic	D	34,485	\$566	1.00	\$566	19,507,179	\$111	3,839,362
2	Domestic-Opt. Peak	D-10	413	\$566	1.00	\$566	233,604	\$111	45,977
3	General TOU	G-1	122	\$658	1.00	\$658	80,377	\$1,725	210,756
4	General Long Hour	G-2	853	\$658	1.00	\$658	560,965	\$868	739,997
5	General Service	G-3	5,515	\$566	1.00	\$566	3,119,687	\$164	902,632
6	Outdoor Lighting	M	99						-
7	Limited All Electric	T	1,191	\$566	1.00	\$566	673,862	\$111	132,628
8	Ltd Comm Space	V	19	\$566	1.00	\$566	10,842	\$111	2,134
9			<u>42,697</u>				<u>24,186,516</u>		<u>5,873,487</u>

10

11 Outdoor Lighting *From Sch. 3E* 7,514,498

12

13 (a) Current costs were not available for Granite State.

14 Recent costs from rate cases filed for other utilities in the Northeast were used as proxies.

WtdCustOI **Granite State Electric Company**
Sch. 6 **Marginal Cost Study**
vFINAL **Weighted Metering, Billing and Collections Costs**

Line	Rate Class	Code	Customers	Weight	Weighted Customers	Customer-related OM Costs	Customer-related OM per Customer
1	Customer Accounts						
2	Domestic	D	34,485	1.00	34,009	3,189,452	\$92.49
3	Domestic-Opt. Peak	D-10	413	1.00	407	38,195	\$92.49
4	General TOU	G-1	122	2.00	241	22,595	\$184.97
5	General Long Hour	G-2	853	1.50	1,261	118,272	\$138.73
6	General Service	G-3	5,515	1.00	5,439	510,073	\$92.49
7	Outdoor Lighting	M	99	1.50	146	13,734	\$138.73
8	Limited All Electric	T	1,191	1.00	1,175	110,177	\$92.49
9	Ltd Comm Space	V		1.00		-	
10			<u>42,678</u>	0.99	<u>42,678</u>	<u>4,002,500</u>	\$93.78
11							
12	Customer Accounts Cost per Customer					<i>Source: Sch. 6A</i>	\$93.78
13							

MCustOM, **Granite State Electric Company**
Sch. 6A **Marginal Cost Study**
vFINAL **Metering, Billing and Collections Costs Per Customer**

Line	Year	Customers	Costs		
			Historic \$000s	Current \$000s	GDP Inflator
1	1997	35,910	\$1,705	\$2,514	1.47
2	1998	36,501	1,246	1,796	1.44
3	1999	37,031	1,518	2,136	1.41
4	2000	37,650	2,072	2,793	1.35
5	2001	38,118	1,435	1,855	1.29
6	2002	39,172	1,472	1,855	1.26
7	2003	39,711	1,262	1,532	1.21
8	2004	40,261	1,115	1,318	1.18
9	2005	40,824	1,082	1,238	1.14
10	2006	41,582	1,259	1,397	1.11
11	2007	41,386	1,361	1,482	1.09
12	2008	41,878	1,672	1,759	1.05
13	2009	42,107	1,717	1,818	1.06
14	2010	42,308	1,615	1,684	1.04
15	2011	42,630	1,348	1,368	1.02
16	2012	42,697	2,040	2,040	1.00
17					
18			Customer Accounts		
19		Customer-related Cost per Customer		\$47.77	Last 1 years
20		A&G Adder	Sch. 9	96.32%	
21		Total Customer-related Cost per Customer		\$93.78	
22					
23		Statistical Analysis- R-Squared		46.45%	

OM_Cust_ **Granite State Electric Company**
Sch. 6B **Marginal Cost Study**
vFINAL **Historical Metering, Billing and Collections Cost**
Amounts in \$000s

Source: Form 1

Line	Description	Acct	2011	2010	2009	2008	2007	2006	2005	2004	2003
1	Supervision	901	30	49	68	96	79	58	62	77	131
2	Meter reading	902	211	208	194	192	208	214	227	207	230
3	Customer records & collection	903	919	1,146	1,227	952	784	694	628	644	821
4	Miscellaneous customer expense	905	5	15	26	88	41	8	3	3	0
5	Customer service- supervision	907	1	(1)	1	7	4	2	0	0	0
6	Customer assistance	908	70	63	56	268	332	256	273	253	208
7	Customer service- miscellaneous	910	112	135	145	270	162	219	94	121	28
8	Less: Customer assistance prior to 2009					(201)	(249)	(192)	(205)	(190)	(156)
9			<u>1,348</u>	<u>1,615</u>	<u>1,717</u>	<u>1,672</u>	<u>1,361</u>	<u>1,259</u>	<u>1,082</u>	<u>1,115</u>	<u>1,262</u>
10											
11	Uncollectibles expense	904	563	363	775	553	550	244	123	252	340
12											

OM_Cust_ **Granite State Electric Company**
Sch. 6B **Marginal Cost Study**
vFINAL **Historical Metering, Billing and Collections Cost**
Amounts in \$000s

Line	Description	Acct	2002	2001	2000	1999	1998	1997
1	Supervision	901	99	69	60	43	40	101
2	Meter reading	902	370	311	346	321	364	339
3	Customer records & collection	903	873	918	1,492	949	701	1,089
4	Miscellaneous customer expense	905	0	0	0	0	0	2
5	Customer service- supervision	907	5	3	3	5	2	3
6	Customer assistance	908	467	1,651	1,691	1,846	2,074	2,283
7	Customer service- miscellaneous	910	55	51	86	108	35	57
8	Less: Customer assistance prior to 2009		(397)	(1,568)	(1,606)	(1,754)	(1,970)	(2,169)
9			<u>1,472</u>	<u>1,435</u>	<u>2,072</u>	<u>1,518</u>	<u>1,246</u>	<u>1,705</u>
10								
11	Uncollectibles expense	904	469	180	215	145	240	244
12								

Demands **Granite State Electric Company**
Sch. 7 **Marginal Cost Study**
vFINAL **Rate Class Demands**
Load Factor Weights

Line	Rate Class	Rate Code	Weight= 20.0%				Weight= 20.0%			
			Historic Year Ended 12/31/2012				Historic Year Ended 12/31/2011			
			MWh	Non-Coincident Peak	NCP Mth	Load Factor	MWh	Non-Coincident Peak	NCP Mth	Load Factor
			(A1)	(B1)	(C1)=(A1)/ [(B1) X 8760]				(C1)=(A1)/ [(B1) X 8760]	
1	Domestic	D	273,670	75,938	Jul	41.14%	274,491	69,929	Dec	44.81%
2	Domestic-Opt. Peak	D-10	5,472	1,518	Jul	41.14%	5,648	1,439	Dec	44.81%
3	General TOU	G-1	362,045	76,385	Aug	54.11%	354,726	77,407	Aug	52.31%
4	General Long Hour	G-2	154,157	32,471	Jul	54.19%	159,789	35,474	Jul	51.42%
5	General Service	G-3	92,009	20,901	Jun	50.25%	92,519	23,501	Jul	44.94%
6	Outdoor Lighting	M	4,654	1,152	Jan	46.13%	4,756	1,137	Jan	47.75%
7	Limited All Electric	T	18,462	4,940	Jul	42.66%	19,687	5,013	Dec	44.83%
8	Ltd Comm Space	V	290	66	Jun	50.25%	308	78	Jul	44.94%
9	Total		910,759	213,371		48.73%	911,923	213,978		48.65%
10			910,759			8760	911,923			8760
11	Residential		608,211	129,757		53.51%	607,034	136,383		50.81%
12	Domestic	D	273,670	75,938		93.09%	274,491	69,929		92.75%
13	Domestic-Opt. Peak	D-10	5,472	1,518		1.861%	5,648	1,439		1.908%
14	Ltd All Elec- Res	T	14,836	4,117		5.046%	15,815	4,029		5.344%
15			293,978	81,573		100.000%	295,954	75,397		100.000%
16			293,978	81,573		41.14%	295,954	75,397		44.81%
17										
18	Small C&I									
19	General Service	G-3	92,009	20,901		95.918%	92,519	23,501		95.677%
20	Ltd All Elec- Comm	T	3,626	824		3.780%	3,872	984		4.004%
21	Ltd Comm Space	V	290	66		0.302%	308	78		0.318%
22			95,925	21,790		100.000%	96,699	24,563		100.000%
23			95,842	21,790		50.21%	96,699	24,563		44.94%
24										

Demands **Granite State Electric C**
Sch. 7 **Marginal Cost Study**
vFINAL **Rate Class Demands**
Load Factor Weights

Line	Rate Class	Rate Code	Weight= 20.0%				Weight= 20.0%			
			Historic Year Ended 12/31/2010				Historic Year Ended 12/31/2009			
			MWh	Non-Coincident Peak	NCP Mth	Load Factor	MWh	Non-Coincident Peak	NCP Mth	Load Factor
			(A2)	(B2)	(C2)=(A2)/ [(B2) X 8760]	(A3)	(B3)	(C3)=(A3)/ [(B3) X 8760]		
1	Domestic	D	271,472	77,917	Jul 39.77%	260,693	71,981	Jan 41.34%		
2	Domestic-Opt. Peak	D-10	5,668	1,627	Jul 39.77%	5,751	1,588	Jan 41.34%		
3	General TOU	G-1	332,879	68,360	Jun 55.59%	331,051	69,315	Aug 54.52%		
4	General Long Hour	G-2	158,477	34,951	May 51.76%	153,434	32,919	Aug 53.21%		
5	General Service	G-3	91,985	22,612	Sep 46.44%	91,443	20,409	Aug 51.15%		
6	Outdoor Lighting	M	4,959	1,186	Jan 47.73%	4,977	1,190	Jan 47.75%		
7	Limited All Electric	T	20,179	5,637	Jul 40.87%	21,619	5,756	Jan 42.88%		
8	Ltd Comm Space	V	347	85	Sep 46.44%	332	74	Aug 51.15%		
9	Total		<u>885,967</u>	<u>212,375</u>	47.62%	<u>869,299</u>	<u>203,231</u>	48.83%		
10			885,967		8760	869,299		8760		
11	<u>Residential</u>		583,341	125,923	52.88%	575,928	122,643	53.61%		
12	Domestic	D	271,472	77,917	92.48%	260,693	71,981	91.78%		
13	Domestic-Opt. Peak	D-10	5,668	1,627	1.931%	5,751	1,588	2.025%		
14	Ltd All Elec- Res	T	16,417	4,712	5.593%	17,590	4,857	6.193%		
15			<u>293,557</u>	<u>84,256</u>	100.000%	<u>284,034</u>	<u>78,425</u>	100.000%		
16			293,557	84,256	39.77%	284,034	78,425	41.34%		
17										
18	<u>Small C&I</u>									
19	General Service	G-3	91,985	22,612	95.724%	91,443	20,409	95.449%		
20	Ltd All Elec- Comm	T	3,762	925	3.915%	4,028	899	4.205%		
21	Ltd Comm Space	V	347	85	0.361%	332	74	0.346%		
22			<u>96,094</u>	<u>23,622</u>	100.000%	<u>95,803</u>	<u>21,382</u>	100.000%		
23			96,094	23,622	46.44%	95,803	21,382	51.15%		
24										

Demands **Granite State Electric C**
Sch. 7 **Marginal Cost Study**
vFINAL **Rate Class Demands**
Load Factor Weights

Line	Rate Class	Rate Code	Weight= 20.0%				Normalized Rate Year		
			Historic Year Ended 12/31/2008				Average Load Factor	MWh	Non-Coincident Peak
			MWh	Non-Coincident Peak	NCP Mth	Load Factor	(D)= Average(C1.C4)	(E)	(F)=(E)/ [(D) X 8760]
			(A4)	(B4)	(C4)=(A4)/ [(B4) X 8760]				
1	Domestic	D	259,981	71,931	Jun	41.26%	41.66%	281,396	77,098
2	Domestic-Opt. Peak	D-10	5,888	1,629	Jun	41.26%	41.66%	5,144	1,409
3	General TOU	G-1	339,510	79,344	Jul	48.85%	53.07%	366,293	78,783
4	General Long Hour	G-2	161,274	35,750	Jun	51.50%	52.42%	156,146	34,007
5	General Service	G-3	94,429	25,000	Jun	43.12%	47.18%	93,001	22,502
6	Outdoor Lighting	M	5,018	1,196	Jan	47.89%	47.45%	4,692	1,129
7	Limited All Electric	T	22,554	6,191	Jun	41.59%	42.56%	17,681	4,742
8	Ltd Comm Space	V	348	92	Jun	43.12%	47.18%	277	67
9	Total		889,002	221,134		45.89%	47.94%	924,629	219,737
10			889,002			8760	8760	924,629	
11	<u>Residential</u>		595,214	140,094		48.50%	From Sch. 19		To Sch. 1
12	Domestic	D	259,981	71,931		91.45%			To Sch. 3
13	Domestic-Opt. Peak	D-10	5,888	1,629		2.071%			
14	Ltd All Elec- Res	T	18,418	5,096		6.479%			
15			284,286	78,656		100.000%			
16			284,286	78,656		41.26%			
17									
18	<u>Small C&I</u>								
19	General Service	G-3	94,429	25,000		95.467%			
20	Ltd All Elec- Comm	T	4,136	1,095		4.182%			
21	Ltd Comm Space	V	348	92		0.352%			
22			98,913	26,187		100.000%			
23			98,913	26,187		43.12%			
24									

LCCR_M **Granite State Electric Company**
Sch. 8 **Marginal Cost Study**
vFINAL **Level Carrying Charge Rates**

Line	Account Title	Account	Reference	Balance 12/31/2011	Weight	Tax Life if DDB	DDB Rate	Regulatory Book Life	Salvage Value	Level Carrying Charge Rate (LCCR)
1	Distribution Plant									
<i>Source: Alliance Consulting</i>										
2	Station Equipment	362		17,362,914	19%			39	(20.0%)	
3	Poles, Towers and Fixtures	364		25,627,618	28%			35	(50.0%)	
4	Overhead Conductors and Devices	365		34,849,460	38%			40	(45.0%)	
5	Underground Conduit	366		4,577,090	5%			50	(10.0%)	
6	Underground Conductors & Devices	367		9,726,252	11%			41	(50.0%)	
7	Weighted Primary/Secondary Plant	362-367	Sch. 12	<u>92,143,335</u>	<u>100%</u>	20	150%	39.0	(40.5%)	23.25%
8										
9	Line Transformers	368	Sch. 13			20	150%	37	(50.0%)	12.78%
10	Services	369	Sch. 14			20	150%	45	(75.0%)	12.77%
11	Meters	370	Sch. 15			20	150%	22	(20.0%)	13.41%
12	Street Lights	373	Sch. 16			20	150%	30	(50.0%)	11.96%
13										
14	FIT Method	DDB								
15	SIT Method	DDB								
16										
17	LCCR Cost Parameters									
18				O&M Expense		Other Plant	Municipal tax, Property insurance, Other			Work Cap / MS / Prepay
19	<i>Applied to==></i>			<u>Gross plant / Inflated</u>		<u>Gross Plant</u>				<u>O&M</u>
20	<i>Source==></i>			<u>Sch. 9</u>		<u>Sch. 10</u>				
21	Primary/Secondary			8.15%		1.77%		Materials & supplies/ Prep		1,257,419
22	Transformers			0.25%		1.77%		O&M Sch. 9		7,583,671
23	Services			1.42%		0.21%		% of O&M		16.6%
24	Meters			1.94%		0.21%				
25	Street Lights			0.99%						

LCCRC: **Granite State Electric Company**
Sch. 8A **Marginal Cost Study**
vFINAL **Level Carrying Charge Rates- Components**

Line	LCCR Component	Distribution Plant		Line Transformers		Services		Meters		Street Lights	
		LCCR Per \$1000 Investment	% of Total	LCCR Per \$1000 Investment	% of Total	LCCR Per \$1000 Investment	% of Total	LCCR Per \$1000 Investment	% of Total	LCCR Per \$1000 Investment	% of Total
1	Return on Rate Base	45.42	4.54%	40.55	4.05%	41.37	4.14%	36.82	3.68%	36.45	3.64%
2	Depreciation	34.67	3.47%	38.73	3.87%	38.11	3.81%	45.49	4.55%	45.80	4.58%
3	Income taxes	30.87	3.09%	27.56	2.76%	28.12	2.81%	25.03	2.50%	24.78	2.48%
4	O&M cost	103.83	10.38%	3.18	0.32%	18.05	1.80%	24.68	2.47%	12.62	1.26%
5	Property tax / Insurance	17.74	1.77%	17.74	1.77%	2.07	0.21%	2.07	0.21%	0.00	0.00%
6		<u>232.53</u>	<u>23.25%</u>	<u>127.76</u>	<u>12.78%</u>	<u>127.73</u>	<u>12.77%</u>	<u>134.09</u>	<u>13.41%</u>	<u>119.64</u>	<u>11.96%</u>
7	LCCR Rate		23.25%		12.78%		12.77%		13.41%		11.96%
8											

Line	Account Description	Account No.	Total	% Services	Primary / Secondary	Line Transformers	Services	Meters	Street Lights	Other
1	COST VALUES- Current Costs				175,254,348	31,947,845	24,186,516	5,873,487	7,514,498	
2	<i>Source</i>				<i>Sch. 3B</i>	<i>Sch. 3B</i>	<i>Sch. 5</i>	<i>Sch. 5</i>	<i>Sch. 3E</i>	
3	Operating & Maintenance Expense									
4	Supervision & Eng	580	133,593							133,593
5	Load Dispatching	581	862,896		862,896					
6	Substations	582	179,574		179,574					
7	Overhead Lines	583	713,894		713,894					
8	Underground Lines	584	79,327		79,327					
9	Outdoor Lighting	585	3,442						3,442	
10	Electric Meters	586	50,384					50,384		
11	Customer Installation	587	15,349							15,349
12	Miscellaneous Expenses	588	589,575							589,575
13	Rents	589	2,161							2,161
14	Supervision & Eng	590	14							14
15	Structures	591	1,583		1,583					
16	Substations	592	35,596		35,596					
17	Overhead Lines	593.0	1,574,328	10%	1,416,895		157,433			
18	OH Lines-Trouble	593.1	469,390	5%	469,390					
19	OH Lines-Veg Mgmt	593.2	1,161,275		1,161,275					
20	Underground Lines	594	42,041		42,041					
21	Line Transformers	595	36,605			36,605				
22	Outdoor Lighting	596	30,745						30,745	
23	Maintenance expense- Meters	597	1,900					1,900		
24	Property insurance (Storm Fund)	924	2,800,000		2,800,000					
25	Less: SRA (recovery of deficit balance)		(1,200,000)		(1,200,000)					
26	<i>Total Operating & Maint Expense</i>	<i>TRUE</i>	<i>7,583,671</i>		<i>6,562,470</i>	<i>36,605</i>	<i>157,433</i>	<i>52,284</i>	<i>34,187</i>	<i>740,693</i>
27	Re-allocate Other				710,330	3,962	17,041	5,659	3,700	
28	<i>Total Operating & Maint Expense</i>	<i>TRUE</i>	<i>7,583,671</i>		<i>7,272,800</i>	<i>40,567</i>	<i>174,473</i>	<i>57,943</i>	<i>37,887</i>	
29										
30	O&M Rates as % of Plant Cost	Line 28 / Line 1			4.15%	0.13%	0.72%	0.99%	0.50%	
31	A&G Adder	96.32% <i>Source: Sch. 11</i>			96.32%	96.32%	96.32%	96.32%	96.32%	
32	Carried to LCCR_M and included in LCCR calculations				8.15%	0.25%	1.42%	1.94%	0.99%	

OtherPlant_ **Granite State Electric Company**
Sch. 10 **Marginal Cost Study**
vFINAL **Other Plant-related Costs**

Line	Description	Account No.	Primary / Secondary Distribution and Transformers	Services and Meters
1	Municipal taxes	408.3	3,184,358	
2	Injuries and Damage (Insurance expense)	925	480,388	480,388
3	Maintenance of General Plant	935	10,718	10,718
4			<u>3,675,463</u>	<u>491,105</u>
5				
6	Net Plant for Tax Bases	<i>From Sch. 9</i>	<u>207,202,193</u>	<u>237,262,195</u>
7				
8	Other Plant-related Costs as % of Plant Cost		1.77%	0.21%
9				

AG_M **Granite State Electric Company**
Sch. 11 **Marginal Cost Study**
vFINAL **A&G Costs**
Amounts in \$000s

Source: Form 1

Line	Description	Acct	2011	2010	2009	2008	2007	2006	2005	2004	2003	
1	Administration and General Salaries	920	1,851	1,386	1,256	858	793	716	691	677	771	
2	Office Supplies and Expenses	921	1,022	1,091	1,063	842	568	796	617	707	924	
3	Outside Services Employed	923	569	469	253	120	33	180	114	240	530	
4	Property Insurance	924	<i>Included on Sch. 9</i>									
5	Injuries and Damage	925	<i>Included on Sch. 10</i>									
6	Employee Pensions and Benefits	926	2,090	1,820	1,797	1,458	1,440	1,358	1,253	1,606	3,128	
7	Less: Amortize Pension asset											
8	Regulatory Commission Expenses	928	255	839	571	447	442	537	345	244	228	
9	Miscellaneous General Expenses	930	60	94	135	152	57	12	64	138	20	
10	Rents	931	190	209	313	380	306	276	123	183	146	
11	Maintenance of General Plant	935	<i>Included on Sch. 10</i>									
12	Payroll taxes	408PR	137	132	126	138	118	128	111	85	126	
13			<u>6,174</u>	<u>6,040</u>	<u>5,514</u>	<u>4,395</u>	<u>3,757</u>	<u>4,003</u>	<u>3,318</u>	<u>3,880</u>	<u>5,873</u>	
14	O&M Expenses											
15	Distribution O&M		5,816	3,593	5,940	5,595	6,035	4,321	2,949	4,008	3,573	
16	Property Insurance (Storm)		490	302	122	123	55	33	61	24	10	
17	Distribution O&M	Sch. 6B	6,306	3,895	6,062	5,718	6,090	4,354	3,010	4,032	3,583	
18	Customer	Sch. 6B	1,348	1,615	1,717	1,672	1,361	1,259	1,082	1,115	1,262	
19			<u>7,654</u>	<u>5,510</u>	<u>7,779</u>	<u>7,390</u>	<u>7,451</u>	<u>5,613</u>	<u>4,092</u>	<u>5,147</u>	<u>4,845</u>	
20			80.7%	109.6%	70.9%	59.5%	50.4%	71.3%	81.1%	75.4%	121.2%	
21	A&G Adder to O&M Costs											
22	All 15 years	Line 13 / line	% of O&M Expenses									
23	Last 5 years		% of O&M Expenses									
24	Last 3 years		% of O&M Expenses									
25	Last 1 years		% of O&M Expenses									
26	GDP Inflator		1.02	1.04	1.06	1.05	1.09	1.11	1.14	1.18	1.21	
27	Salaries & Wages charged to income		2,080	2,004	1,924	2,099	1,799	1,947	1,685	1,296	1,914	
28	Payroll tax %		<u>6.57%</u>	<u>6.57%</u>	<u>6.57%</u>	<u>6.57%</u>	<u>6.57%</u>	<u>6.57%</u>	<u>6.57%</u>	<u>6.57%</u>	<u>6.57%</u>	
29												
30	Distribution Plant		<u>133,552</u>	<u>129,413</u>	<u>121,834</u>	<u>117,894</u>	<u>112,954</u>	<u>105,724</u>	<u>97,832</u>	<u>92,593</u>	<u>89,880</u>	

AG_M **Granite State Electric Company**
Sch. 11 **Marginal Cost Study**
vFINAL **A&G Costs**
Amounts in \$000s

Line	Description	Acct	2002	2001	2000	1999	1998	1997
1	Administration and General Salaries	920	830	805	867	707	737	730
2	Office Supplies and Expenses	921	934	1,178	1,255	1,217	1,270	1,085
3	Outside Services Employed	923	490	631	218	151	45	35
4	Property Insurance	924						
5	Injuries and Damage	925						
6	Employee Pensions and Benefits	926	915	463	793	1,072	1,207	1,437
7	Less: Amortize Pension asset							
8	Regulatory Commission Expenses	928	219	185	540	4	274	338
9	Miscellaneous General Expenses	930	48	55	72	76	60	145
10	Rents	931	134	117	113	149	180	172
11	Maintenance of General Plant	935						
12	Payroll taxes	408PR	144	125	135	130	131	168
13			<u>3,714</u>	<u>3,559</u>	<u>3,993</u>	<u>3,506</u>	<u>3,904</u>	<u>4,110</u>
14	O&M Expenses							
15	Distribution O&M		3,370	3,821	3,910	3,737	2,997	3,092
16	Property Insurance (Storm)		30	7	9	6	6	7
17	Distribution O&M	Sch. 6B	3,400	3,828	3,919	3,743	3,003	3,099
18	Customer	Sch. 6B	1,472	1,435	2,072	1,518	1,246	1,705
19			<u>4,872</u>	<u>5,263</u>	<u>5,991</u>	<u>5,261</u>	<u>4,249</u>	<u>4,804</u>
20			76.2%	67.6%	66.7%	66.6%	91.9%	85.5%
21	A&G Adder to O&M Costs							
22	All 15 years	Line 13 / line						
23	Last 5 years							
24	Last 3 years							
25	Last 1 years							
26	GDP Inflation		1.26	1.29	1.35	1.41	1.44	1.47
27	Salaries & Wages charged to income		2,189	1,909	2,060	1,987	1,994	2,553
28	Payroll tax %		6.57%	6.57%	6.57%	6.57%	6.57%	6.57%
29								
30	Distribution Plant		<u>87,358</u>	<u>82,884</u>	<u>78,728</u>	<u>75,266</u>	<u>72,407</u>	<u>69,792</u>

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DistribL_ Granite State Electric Company
Sch. 12 Marginal Cost Study
vFINAL Level Carrying Charge Rate- Distribution Plant

Line							
1							
2	Original Cost			Federal Tax			
3	Original Cost \$	Cost	\$1,000	FIT Basis \$	FIT_Basis	\$1,000	
4	Depreciable life years	Depr_Life	39.0	FIT depreciation yrs	FIT_Life	20	
5	Salvage %	Salvage	(40%)	FIT rate	FIT_Rate	35.00%	
6	Depreciable basis	DeprBasis	\$1,404.69	FIT Gross-up	FIT_Mult	53.85%	
7	Annual depreciation	AnnualDepr	\$36.00	FIT DDB Rate	FDB_Rate	150%	
8	Year in service	Start_Yr	2012	FIT DDB %	FDBpct	7.50%	
9	Depr Year 1	D_Yr1	100%	FIT Method	FIT_DDB	TRUE	
10				FIT Year 1	F_Yr1	50%	
11							
12	Annual Costs			State Tax			
13	O&M	OM_pct	8.15%	Gross plant / inflated	SIT Basis \$	SIT_Basis	\$1,000
14	Property tax and Other	Prop_pct	1.77%	Gross plant	SIT depreciation yrs	SIT_Life	20
15	Work Cap/MS/Prepay in Rate Base	WC_MS_pct	28.91%	O&M	SIT rate	SIT_Rate	8.50%
16	Inflation rate	Inflation	1.90%	101.90%	SIT Gross-up	SIT_Mult	9.29%
17					SIT DDB Rate	SDB_Rate	200%
18	Cost of Capital				SIT DDB %	SDBpct	10.00%
19	Wtd Avg Cost of Capital	WACC	8.32%		SIT Method	SIT_DDB	TRUE
20	Wtd Return on Equity	WEqu	10.50%		SIT Year 1	S_Yr1	50%
21							
22							

23	NPV- Revenue Req	\$2,774	NPV- Levelized Charge	\$2,773
24	NPV- Plant	\$11,927	Inflation Adjustmen	7.07%
25	Economic Carrying Charge Rate	19.61% (ECCR)	Levelized Carrying Charge Rate (LCCR)	23.25%

Year	rYear	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
Year Number	rYearNum	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
30	Original Cost	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	
31	Depreciation expense	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	
32	Accum. depreciator	36.00	71.99	107.99	143.99	179.98	215.98	251.97	287.97	323.97	359.96	395.96	431.96	467.95	503.95	539.94	575.94	611.94	647.93	
33	Net plant	964.00	928.01	892.01	856.01	820.02	784.02	748.03	712.03	676.03	640.04	604.04	568.04	532.05	496.05	460.06	424.06	388.06	352.07	
34	Inflation Factor	1.0000	1.0190	1.0384	1.0581	1.0782	1.0987	1.1196	1.1408	1.1625	1.1846	1.2071	1.2300	1.2534	1.2772	1.3015	1.3262	1.3514	1.3771	
35	Levelized Charge	196.14	199.86	203.66	207.53	211.47	215.49	219.59	223.76	228.01	232.34	236.76	241.25	245.84	250.51	255.27	260.12	265.06	270.10	
36																				
37	Rate Base																			
38	Original Cost	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	
39	Accum. depreciator	(36.00)	(71.99)	(107.99)	(143.99)	(179.98)	(215.98)	(251.97)	(287.97)	(323.97)	(359.96)	(395.96)	(431.96)	(467.95)	(503.95)	(539.94)	(575.94)	(611.94)	(647.93)	
40	ADIT- Federal	(0.53)	(13.19)	(23.97)	(32.98)	(40.38)	(46.28)	(50.79)	(54.02)	(57.04)	(60.05)	(63.07)	(66.09)	(69.10)	(72.12)	(75.14)	(78.15)	(81.17)	(84.19)	
41	ADIT- State	(1.19)	(6.21)	(10.41)	(13.89)	(16.72)	(18.96)	(20.67)	(21.90)	(22.70)	(23.12)	(23.19)	(23.09)	(23.00)	(22.90)	(22.80)	(22.71)	(22.61)	(22.52)	
42	Work Cap/MS/Prepay	28.91%	23.55	24.00	24.46	24.92	25.39	25.88	26.37	26.87	27.38	27.90	28.43	28.97	29.52	30.08	30.65	31.24	31.83	
43	Rate Base	rRateBase	985.84	932.61	882.09	834.06	788.31	744.66	702.93	662.98	623.67	584.77	546.21	507.84	469.47	431.11	392.77	354.43	316.11	
44																				
45	Return on Rate Base	rReturn	82.02	77.59	73.39	69.39	65.59	61.96	58.48	55.16	51.89	48.65	45.45	42.25	39.06	35.87	32.68	29.49	26.30	
46	Return on Equity	rROE	103.51	97.92	92.62	87.58	82.77	78.19	73.81	69.61	65.49	61.40	57.35	53.32	49.29	45.27	41.24	37.22	33.19	
47																				
48	Revenue Requiremen																			
49	Return on Rate Base		82.02	77.59	73.39	69.39	65.59	61.96	58.48	55.16	51.89	48.65	45.45	42.25	39.06	35.87	32.68	29.49	26.30	
50	Depreciation expense		36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	
51	FIT- Total		55.74	52.73	49.87	47.16	44.57	42.10	39.74	37.48	35.26	33.06	30.88	28.71	26.54	24.37	22.21	20.04	17.87	
52	SIT- Total		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
53	O&M		81.47	83.02	84.59	86.20	87.84	89.51	91.21	92.94	94.71	96.51	98.34	100.21	102.11	104.05	106.03	108.04	110.10	
54	Property tax		17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	
55																				
56	Revenue Requiremen	rRevReq	272.97	267.08	261.60	256.50	251.74	247.31	243.18	239.33	235.60	231.97	228.41	224.92	221.46	218.04	214.66	211.32	208.02	
57																				

DistribL_ Granite State Electric Company
Sch. 12 Marginal Cost Study
vFINAL Level Carrying Charge Rate- Distribution Plant

Line		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
58	FIT																		
59	Return on Equity	103.51	97.92	92.62	87.58	82.77	78.19	73.81	69.61	65.49	61.40	57.35	53.32	49.29	45.27	41.24	37.22	33.19	29.17
60	Depreciation expense	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
61	SIT Current	(1.29)	(5.47)	(4.59)	(3.79)	(3.08)	(2.44)	(1.86)	(1.34)	(0.87)	(0.45)	(0.07)	0.11	0.11	0.11	0.11	0.11	0.11	0.11
62	FIT Depr Allowance	(37.50)	(72.19)	(66.77)	(61.77)	(57.13)	(52.85)	(48.88)	(45.22)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)
63	FIT Taxable Income	<i>rFIT_Income</i>	100.72	56.26	57.25	58.01	58.56	58.90	59.06	59.05	56.00	52.34	48.67	44.82	40.79	36.76	32.74	28.71	24.69
64																			
65	FIT Current	<i>rFIT_Curr</i>	54.23	30.29	30.83	31.24	31.53	31.72	31.80	30.15	28.18	26.21	24.13	21.96	19.80	17.63	15.46	13.29	11.13
66	FIT Total	<i>rFIT_Total</i>	55.74	52.73	49.87	47.16	44.57	42.10	39.74	37.48	35.26	33.06	30.88	28.71	26.54	24.37	22.21	20.04	17.87
67																			
68	FIT Depreciation Allowance																		
69	FIT Deprec SL	<i>rFIT_SL</i>	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
70	FIT Deprec DDB	<i>rFIT_DDB</i>	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
71	FIT Deprec Allow	<i>rFITDep</i>	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
72																			
73	FIT Basis	<i>rFITBasis</i>	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77
74																			
75	FIT Deprec DDB Bal	<i>rFIT_DDB_Bal</i>	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77
76	FIT Remaining Years	<i>rFIT_RemY</i>	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50
77																			
78	FIT Deferred	<i>rFIT_Defd</i>	0.53	12.67	10.77	9.02	7.40	5.90	4.51	3.23	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02	3.02
79	FIT ADIT	<i>rFIT_ADIT</i>	0.53	13.19	23.97	32.98	40.38	46.28	50.79	54.02	57.04	60.05	63.07	66.09	69.10	72.12	75.14	78.15	81.17
80																			
81	SIT																		
82	Return on Equity	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%
83	Depreciation expense	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
84	SIT Depr Allowance	(50.00)	(95.00)	(85.50)	(76.95)	(69.26)	(62.33)	(56.10)	(50.49)	(45.44)	(40.89)	(36.80)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)
85	SIT Taxable Income	<i>rSIT_Income</i>	(13.90)	(58.90)	(49.40)	(40.85)	(33.15)	(26.23)	(20.00)	(14.39)	(9.34)	(4.79)	(0.70)	1.23	1.23	1.23	1.23	1.23	1.23
86																			
87	SIT Current	<i>rSIT_Curr</i>	(1.29)	(5.47)	(4.59)	(3.79)	(3.08)	(2.44)	(1.86)	(1.34)	(0.87)	(0.45)	(0.07)	0.11	0.11	0.11	0.11	0.11	0.11
88	SIT Total	<i>rSIT_Total</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
89																			
90	SIT Depreciation Allowance																		
91	SIT Deprec SL	<i>rSIT_SL</i>	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
92	SIT Deprec DDB	<i>rSIT_DDB</i>	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87
93	SIT Deprec Allow	<i>rSITDep</i>	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87
94																			
95	SIT Basis	<i>rSITBasis</i>	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91
96																			
97	SIT Deprec DDB Bal	<i>rSIT_DDB_Bal</i>	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91
98	SIT Remaining Years	<i>rSIT_RemY</i>	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50
99																			
100	SIT Deferred	<i>rSIT_Defd</i>	1.19	5.02	4.21	3.48	2.83	2.24	1.71	1.23	0.80	0.42	0.07	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)	(0.10)
101	SIT ADIT	<i>rSIT_ADIT</i>	1.19	6.21	10.41	13.89	16.72	18.96	20.67	21.90	22.70	23.12	23.19	23.09	23.00	22.90	22.80	22.71	22.61

TransL_N **Granite State Electric Company**
Sch. 13 **Marginal Cost Study**
vFINAL **Level Carrying Charge Rate- Line Transformers**

1	Line						
2	Original Cost			Federal Tax			
3	Original Cost \$	Cost	\$1,000	FIT Basis \$	FIT_Basis	\$1,000	
4	Depreciable life years	Depr_Life	37.0	FIT depreciation yrs	FIT_Life	20	
5	Salvage %	Salvage	(50%)	FIT rate	FIT_Rate	35.00%	
6	Depreciable basis	DeprBasis	\$1,500.00	FIT Gross-up	FIT_Mult	53.85%	
7	Annual depreciation	AnnualDepr	\$40.54	FIT DDB Rate	FDB_Rate	150%	
8	Year in service	Start_Yr	2012	FIT DDB %	FDBpct	7.50%	
9	Depr Year 1	D_Yr1	100%	FIT Method	FIT_DDB	TRUE	
10				FIT Year 1	F_Yr1	50%	
11	Annual Costs			State Tax			
12		Applied to		SIT Basis \$	SIT_Basis	\$1,000	
13	O&M	OM_pct	0.25%	Gross plant / inflated	SIT_Life	20	
14	Property tax and Other	Prop_pct	1.77%	Gross plant	SIT depreciation yrs	20	
15	Work Cap/MS/Prepay in Rate Base		28.91%	O&M	SIT rate	8.50%	
16	Inflation rate	Inflation	1.90%	101.90%	SIT Gross-up	SIT_Mult	9.29%
17					SIT DDB Rate	SDB_Rate	200%
18	Cost of Capital				SIT DDB %	SDBpct	10.00%
19	Wtd Avg Cost of Capital	WACC	8.32%		SIT Method	SIT_DDB	TRUE
20	Wtd Return on Equity	WEqu	10.50%		SIT Year 1	S_Yr1	50%
21							

23	NPV- Revenue Req	\$1,524	NPV- Levelized Charge	\$1,524
24	NPV- Plant	\$11,927	Inflation Adjustmen	7.17%
25	Economic Carrying Charge Rate	10.92% (ECCR)	Levelized Carrying Charge Rate (LCCR)	12.78%

27	Year	rYear	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
28	Year Number	rYearNum	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
29	Original Cost	rCost	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00		
31	Depreciation expense	rDepExp	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54		
32	Accum. depreciator	rAccumDep	40.54	81.08	121.62	162.16	202.70	243.24	283.78	324.32	364.86	405.41	445.95	486.49	527.03	567.57	608.11	648.65	689.19	729.73		
33	Net plant	rNetPlant	959.46	918.92	878.38	837.84	797.30	756.76	716.22	675.68	635.14	594.59	554.05	513.51	472.97	432.43	391.89	351.35	310.81	270.27		
34	Inflation Factor	rInflation	1.0000	1.0190	1.0384	1.0581	1.0782	1.0987	1.1196	1.1408	1.1625	1.1846	1.2071	1.2300	1.2534	1.2772	1.3015	1.3262	1.3514	1.3771		
35	Levelized Charge	rLevel	109.22	111.29	113.41	115.56	117.76	120.00	122.28	124.60	126.97	129.38	131.84	134.34	136.90	139.50	142.15	144.85	147.60	150.40		
36																						
37	Rate Base																					
38	Original Cost		1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00		
39	Accum. depreciator		(40.54)	(81.08)	(121.62)	(162.16)	(202.70)	(243.24)	(283.78)	(324.32)	(364.86)	(405.41)	(445.95)	(486.49)	(527.03)	(567.57)	(608.11)	(648.65)	(689.19)	(729.73)		
40	ADIT- Federal		1.06	(10.01)	(19.19)	(26.62)	(32.43)	(36.74)	(39.66)	(41.29)	(42.72)	(44.15)	(45.57)	(47.00)	(48.43)	(49.85)	(51.28)	(52.70)	(54.13)	(55.56)		
41	ADIT- State		(0.80)	(5.43)	(9.25)	(12.35)	(14.79)	(16.64)	(17.96)	(18.81)	(19.23)	(19.26)	(18.94)	(18.46)	(17.97)	(17.49)	(17.01)	(16.53)	(16.05)	(15.56)		
42	Work Cap/MS/Prepay	28.91%	0.72	0.73	0.75	0.76	0.78	0.79	0.81	0.82	0.84	0.85	0.87	0.89	0.90	0.92	0.94	0.96	0.97	0.99		
43	Rate Base	rRateBase	960.44	904.21	850.68	799.63	750.85	704.17	659.40	616.39	574.03	532.04	490.41	448.94	407.48	366.01	324.54	283.08	241.61	200.14		
44																						
45	Return on Rate Base	rReturn	79.91	75.23	70.78	66.53	62.47	58.59	54.86	51.28	47.76	44.27	40.80	37.35	33.90	30.45	27.00	23.55	20.10	16.65		
46	Return on Equity	rROE	100.85	94.94	89.32	83.96	78.84	73.94	69.24	64.72	60.27	55.86	51.49	47.14	42.78	38.43	34.08	29.72	25.37	21.01		
47																						
48	Revenue Requiremen																					
49	Return on Rate Base		79.91	75.23	70.78	66.53	62.47	58.59	54.86	51.28	47.76	44.27	40.80	37.35	33.90	30.45	27.00	23.55	20.10	16.65		
50	Depreciation expense		40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54		
51	FIT- Total		54.30	51.12	48.10	45.21	42.45	39.81	37.28	34.85	32.45	30.08	27.73	25.38	23.04	20.69	18.35	16.00	13.66	11.32		
52	SIT- Total		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
53	O&M		2.49	2.54	2.59	2.64	2.69	2.74	2.79	2.84	2.90	2.95	3.01	3.07	3.12	3.18	3.24	3.31	3.37	3.43		
54	Property tax		17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74		
55																						
56	Revenue Requiremen	rRevReq	194.99	187.18	179.75	172.67	165.90	159.43	153.22	147.27	141.40	135.59	129.83	124.09	118.35	112.62	106.88	101.15	95.42	89.69		
57																						

TransL_N Granite State Electric Company
Sch. 13 Marginal Cost Study
vFINAL Level Carrying Charge Rate- Line Transformers

Line		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
58	FIT																		
59	Return on Equity	100.85	94.94	89.32	83.96	78.84	73.94	69.24	64.72	60.27	55.86	51.49	47.14	42.78	38.43	34.08	29.72	25.37	21.01
60	Depreciation expense	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54
61	SIT Current	(0.87)	(5.05)	(4.17)	(3.37)	(2.66)	(2.01)	(1.44)	(0.91)	(0.45)	(0.02)	0.36	0.54	0.54	0.54	0.54	0.54	0.54	0.54
62	FIT Depr Allowance	(37.50)	(72.19)	(66.77)	(61.77)	(57.13)	(52.85)	(48.88)	(45.22)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)
63	FIT Taxable Income	103.02	58.25	58.92	59.36	59.59	59.62	59.46	59.13	55.75	51.77	47.78	43.60	39.25	34.89	30.54	26.18	21.83	17.48
64																			
65	FIT Current	55.47	31.36	31.73	31.96	32.09	32.10	32.02	31.84	30.02	27.87	25.73	23.48	21.13	18.79	16.44	14.10	11.76	9.41
66	FIT Total	54.30	51.12	48.10	45.21	42.45	39.81	37.28	34.85	32.45	30.08	27.73	25.38	23.04	20.69	18.35	16.00	13.66	11.32
67																			
68	FIT Depreciation Allowance																		
69	FIT Deprec SL	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
70	FIT Deprec DDB	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
71	FIT Deprec Allow	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
72																			
73	FIT Basis	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15
74																			
75	FIT Deprec DDB Bal	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15
76	FIT Remaining Years	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50
77																			
78	FIT Deferred	(1.06)	11.08	9.18	7.43	5.81	4.31	2.92	1.64	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43	1.43
79	FIT ADIT	(1.06)	10.01	19.19	26.62	32.43	36.74	39.66	41.29	42.72	44.15	45.57	47.00	48.43	49.85	51.28	52.70	54.13	55.56
80																			
81	SIT																		
82	Return on Equity	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%
83	Depreciation expense	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54	40.54
84	SIT Depr Allowance	(50.00)	(95.00)	(85.50)	(76.95)	(69.26)	(62.33)	(56.10)	(50.49)	(45.44)	(40.89)	(36.80)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)
85	SIT Taxable Income	(9.35)	(54.35)	(44.85)	(36.30)	(28.61)	(21.68)	(15.45)	(9.84)	(4.79)	(0.25)	3.84	5.78	5.78	5.78	5.78	5.78	5.78	5.78
86																			
87	SIT Current	(0.87)	(5.05)	(4.17)	(3.37)	(2.66)	(2.01)	(1.44)	(0.91)	(0.45)	(0.02)	0.36	0.54	0.54	0.54	0.54	0.54	0.54	0.54
88	SIT Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
89																			
90	SIT Depreciation Allowance																		
91	SIT Deprec SL	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
92	SIT Deprec DDB	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87	34.87
93	SIT Deprec Allow	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87	34.87
94																			
95	SIT Basis	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04
96																			
97	SIT Deprec DDB Bal	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04
98	SIT Remaining Years	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50
99																			
100	SIT Deferred	0.80	4.63	3.82	3.09	2.44	1.85	1.32	0.85	0.42	0.03	(0.32)	(0.48)	(0.48)	(0.48)	(0.48)	(0.48)	(0.48)	(0.48)
101	SIT ADIT	0.80	5.43	9.25	12.35	14.79	16.64	17.96	18.81	19.23	19.26	18.94	18.46	17.97	17.49	17.01	16.53	16.05	15.56

ServiceL Granite State Electric Company
Sch. 14 Marginal Cost Study
vFINAL Level Carrying Charge Rate- Services

Line																						
1																						
2	Original Cost			Federal Tax																		
3	Original Cost \$	Cost	\$1,000	FIT Basis \$	FIT_Basis	\$1,000																
4	Depreciable life years	Depr_Life	45.0	FIT depreciation yrs	FIT_Life	20																
5	Salvage %	Salvage	(75%)	FIT rate	FIT_Rate	35.00%																
6	Depreciable basis	DeprBasis	\$1,750.00	FIT Gross-up	FIT_Mult	53.85%																
7	Annual depreciation	AnnualDepr	\$38.89	FIT DDB Rate	FDB_Rate	150%																
8	Year in service	Start_Yr	2012	FIT DDB %	FDBpct	7.50%																
9	Depr Year 1	D_Yr1	100%	FIT Method	FIT_DDB	TRUE																
10				FIT Year 1	F_Yr1	50%																
11																						
12	Annual Costs			State Tax																		
13	O&M	OM_pct	1.42%	Gross plant / inflated	SIT Basis \$	SIT_Basis	\$1,000															
14	Property tax and Other	Prop_pct	0.21%	Gross plant	SIT depreciation yrs	SIT_Life	20															
15	Work Cap/MS/Prepay in Rate Base		28.91%	O&M	SIT rate	SIT_Rate	8.50%															
16	Inflation rate	Inflation	1.90%	101.90%	SIT Gross-up	SIT_Mult	9.29%															
17					SIT DDB Rate	SDB_Rate	200%															
18	Cost of Capital				SIT DDB %	SDBpct	10.00%															
19	Wtd Avg Cost of Capital	WACC	8.32%		SIT Method	SIT_DDB	TRUE															
20	Wtd Return on Equity	WEqu	10.50%		SIT Year 1	S_Yr1	50%															
21																						
22																						
23	NPV- Revenue Req		\$1,523	NPV- Levelized Charge		\$1,523																
24	NPV- Plant		\$11,927	Inflation Adjustmen		6.86%																
25	Economic Carrying Charge Rate		10.45% (ECCR)	Levelized Carrying Charge Rate (LCCR)		12.77%																
26																						
27	Year	rYear		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
28	Year Number	rYearNum		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
29	Original Cost	rCost		1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
30	Depreciation expense	rDepExp		38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89
31	Accum. depreciator	rAccumDep		38.89	77.78	116.67	155.56	194.44	233.33	272.22	311.11	350.00	388.89	427.78	466.67	505.56	544.44	583.33	622.22	661.11	700.00	
32	Net plant	rNetPlant		961.11	922.22	883.33	844.44	805.56	766.67	727.78	688.89	650.00	611.11	572.22	533.33	494.44	455.56	416.67	377.78	338.89	300.00	
33	Inflation Factor	rInflation		1.0000	1.0190	1.0384	1.0581	1.0782	1.0987	1.1196	1.1408	1.1625	1.1846	1.2071	1.2300	1.2534	1.2772	1.3015	1.3262	1.3514	1.3771	
34	Levelized Charge	rLevel		104.49	106.48	108.50	110.56	112.66	114.80	116.98	119.21	121.47	123.78	126.13	128.53	130.97	133.46	136.00	138.58	141.21	143.89	
35																						
36																						
37	Rate Base																					
38	Original Cost			1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	
39	Accum. depreciator			(38.89)	(77.78)	(116.67)	(155.56)	(194.44)	(233.33)	(272.22)	(311.11)	(350.00)	(388.89)	(427.78)	(466.67)	(505.56)	(544.44)	(583.33)	(622.22)	(661.11)	(700.00)	
40	ADIT- Federal			0.49	(11.17)	(20.93)	(28.93)	(35.32)	(40.21)	(43.70)	(45.92)	(47.92)	(49.93)	(51.93)	(53.94)	(55.94)	(57.94)	(59.95)	(61.95)	(63.96)	(65.96)	
41	ADIT- State			(0.94)	(5.71)	(9.68)	(12.91)	(15.49)	(17.48)	(18.95)	(19.93)	(20.49)	(20.66)	(20.48)	(20.14)	(19.80)	(19.46)	(19.12)	(18.77)	(18.43)	(18.09)	
42	Work Cap/MS/Prepay	28.91%		4.09	4.17	4.25	4.33	4.41	4.50	4.58	4.67	4.76	4.85	4.94	5.04	5.13	5.23	5.33	5.43	5.53	5.64	
43	Rate Base	rRateBase		964.75	909.51	856.98	806.93	759.16	713.47	669.71	627.71	586.35	545.37	504.75	464.29	423.84	383.38	342.93	302.48	262.03	221.59	
44																						
45	Return on Rate Base	rReturn		80.27	75.67	71.30	67.14	63.16	59.36	55.72	52.23	48.78	45.38	42.00	38.63	35.26	31.90	28.53	25.17	21.80	18.44	
46	Return on Equity	rROE		101.30	95.50	89.98	84.73	79.71	74.91	70.32	65.91	61.57	57.26	53.00	48.75	44.50	40.26	36.01	31.76	27.51	23.27	
47																						
48	Revenue Requirements																					
49	Return on Rate Base			80.27	75.67	71.30	67.14	63.16	59.36	55.72	52.23	48.78	45.38	42.00	38.63	35.26	31.90	28.53	25.17	21.80	18.44	
50	Depreciation expense			38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	
51	FIT- Total			54.55	51.42	48.45	45.62	42.92	40.34	37.86	35.49	33.15	30.83	28.54	26.25	23.96	21.68	19.39	17.10	14.81	12.53	
52	SIT- Total			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
53	O&M			14.16	14.43	14.70	14.98	15.27	15.56	15.85	16.16	16.46	16.78	17.09	17.42	17.75	18.09	18.43	18.78	19.14	19.50	
54	Property tax			2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	
55																						
56	Revenue Requirements	rRevReq		189.94	182.49	175.43	168.71	162.32	156.23	150.41	144.84	139.37	133.95	128.60	123.27	117.94	112.63	107.32	102.02	96.72	91.43	
57																						

Service: **Granite State Electric Company**
Sch. 14 **Marginal Cost Study**
vFINAL **Level Carrying Charge Rate- Services**

Line		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
58	FIT																		
59	Return on Equity	101.30	95.50	89.98	84.73	79.71	74.91	70.32	65.91	61.57	57.26	53.00	48.75	44.50	40.26	36.01	31.76	27.51	23.27
60	Depreciation expense	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89
61	SIT Current	(1.02)	(5.20)	(4.32)	(3.53)	(2.81)	(2.17)	(1.59)	(1.07)	(0.60)	(0.18)	0.20	0.38	0.38	0.38	0.38	0.38	0.38	0.38
62	FIT Depr Allowance	(37.50)	(72.19)	(66.77)	(61.77)	(57.13)	(52.85)	(48.88)	(45.22)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)
63	FIT Taxable Income	101.66	57.00	57.78	58.33	58.66	58.79	58.74	58.51	55.24	51.36	47.48	43.41	39.16	34.91	30.66	26.42	22.17	17.92
64																			
65	FIT Current	54.74	30.69	31.11	31.41	31.58	31.65	31.63	31.51	29.75	27.66	25.56	23.37	21.09	18.80	16.51	14.22	11.94	9.65
66	FIT Total	54.55	51.42	48.45	45.62	42.92	40.34	37.86	35.49	33.15	30.83	28.54	26.25	23.96	21.68	19.39	17.10	14.81	12.53
67																			
68	FIT Depreciation Allowance																		
69	FIT Deprec SL	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
70	FIT Deprec DDB	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
71	FIT Deprec Allow	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
72																			
73	FIT Basis	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15
74																			
75	FIT Deprec DDB Bal	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15
76	FIT Remaining Years	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50
77																			
78	FIT Deferred	(0.49)	11.65	9.76	8.01	6.39	4.89	3.50	2.22	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
79	FIT ADIT	(0.49)	11.17	20.93	28.93	35.32	40.21	43.70	45.92	47.92	49.93	51.93	53.94	55.94	57.94	59.95	61.95	63.96	65.96
80																			
81	SIT																		
82	Return on Equity	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%
83	Depreciation expense	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89	38.89
84	SIT Depr Allowance	(50.00)	(95.00)	(85.50)	(76.95)	(69.26)	(62.33)	(56.10)	(50.49)	(45.44)	(40.89)	(36.80)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)
85	SIT Taxable Income	(11.01)	(56.01)	(46.51)	(37.96)	(30.26)	(23.34)	(17.10)	(11.49)	(6.44)	(1.90)	2.19	4.13	4.13	4.13	4.13	4.13	4.13	4.13
86																			
87	SIT Current	(1.02)	(5.20)	(4.32)	(3.53)	(2.81)	(2.17)	(1.59)	(1.07)	(0.60)	(0.18)	0.20	0.38	0.38	0.38	0.38	0.38	0.38	0.38
88	SIT Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
89																			
90	SIT Depreciation Allowance																		
91	SIT Deprec SL	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
92	SIT Deprec DDB	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87	34.87
93	SIT Deprec Allow	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87	34.87
94																			
95	SIT Basis	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04
96																			
97	SIT Deprec DDB Bal	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04
98	SIT Remaining Years	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50
99																			
100	SIT Deferred	0.94	4.77	3.96	3.24	2.58	1.99	1.46	0.99	0.56	0.17	(0.18)	(0.34)	(0.34)	(0.34)	(0.34)	(0.34)	(0.34)	(0.34)
101	SIT ADIT	0.94	5.71	9.68	12.91	15.49	17.48	18.95	19.93	20.49	20.66	20.48	20.14	19.80	19.46	19.12	18.77	18.43	18.09

MeterL_ Granite State Electric Company
Sch. 15 Marginal Cost Study
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Line	Original Cost			Federal Tax			
2	Original Cost \$	Cost	\$1,000	FIT Basis \$	FIT_Basis	\$1,000	
4	Depreciable life years	Depr_Life	22.0	FIT depreciation yrs	FIT_Life	20	
5	Salvage %	Salvage	(20%)	FIT rate	FIT_Rate	35.00%	
6	Depreciable basis	DeprBasis	\$1,200.00	FIT Gross-up	FIT_Mult	53.85%	
7	Annual depreciation	AnnualDepr	\$54.55	FIT DDB Rate	FDB_Rate	150%	
8	Year in service	Start_Yr	2012	FIT DDB %	FDBpct	7.50%	
9	Depr Year 1	D_Yr1	100%	FIT Method	FIT_DDB	TRUE	
10				FIT Year 1	F_Yr1	50%	
12	Annual Costs	Applied to		State Tax			
13	O&M	OM_pct	1.94%	Gross plant / inflated	SIT Basis \$	SIT_Basis	\$1,000
14	Property tax and Other	Prop_pct	0.21%	Gross plant	SIT depreciation yrs	SIT_Life	20
15	Work Cap/MS/Prepay in Rate Base		28.91%	O&M	SIT rate	SIT_Rate	8.50%
16	Inflation rate	Inflation	1.90%	101.90%	SIT Gross-up	SIT_Mult	9.29%
17					SIT DDB Rate	SDB_Rate	200%
18	Cost of Capital				SIT DDB %	SDBpct	10.00%
19	Wtd Avg Cost of Capital	WACC	8.32%		SIT Method	SIT_DDB	TRUE
20	Wtd Return on Equity	WEqu	10.50%		SIT Year 1	S_Yr1	50%

23	NPV- Revenue Req	\$1,599	NPV- Levelized Charge	\$1,599
24	NPV- Plant	\$11,927	Inflation Adjustmen	8.68%
25	Economic Carrying Charge Rate	13.89% (ECCR)	Levelized Carrying Charge Rate (LCCR)	13.41%

Year	rYear	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Year Number	rYearNum	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
29	Original Cost	rCost	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
31	Depreciation expense	rDepExp	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55
32	Accum. depreciator	rAccumDep	54.55	109.09	163.64	218.18	272.73	327.27	381.82	436.36	490.91	545.45	600.00	654.55	709.09	763.64	818.18	872.73	927.27
33	Net plant	rNetPlant	945.45	890.91	836.36	781.82	727.27	672.73	618.18	563.64	509.09	454.55	400.00	345.45	290.91	236.36	181.82	127.27	72.73
34	Inflation Factor	rInflation	1.0000	1.0190	1.0384	1.0581	1.0782	1.0987	1.1196	1.1408	1.1625	1.1846	1.2071	1.2300	1.2534	1.2772	1.3015	1.3262	1.3514
35	Levelized Charge	rLevel	138.90	141.54	144.23	146.97	149.76	152.61	155.51	158.46	161.47	164.54	167.67	170.85	174.10	177.41	180.78	184.21	187.71
37	Rate Base																		
38	Original Cost		1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00
39	Accum. depreciator		(54.55)	(109.09)	(163.64)	(218.18)	(272.73)	(327.27)	(381.82)	(436.36)	(490.91)	(545.45)	(600.00)	(654.55)	(709.09)	(763.64)	(818.18)	(872.73)	(927.27)
40	ADIT- Federal		5.97	(0.21)	(4.49)	(7.02)	(7.92)	(7.33)	(5.35)	(2.08)	1.39	4.87	8.35	11.82	15.30	18.77	22.25	25.72	29.20
41	ADIT- State		0.39	(3.05)	(5.68)	(7.59)	(8.84)	(9.50)	(9.63)	(9.29)	(8.51)	(7.35)	(5.84)	(4.17)	(2.50)	(0.83)	0.85	2.52	4.19
42	Work Cap/MS/Prepay	28.91%	5.60	5.71	5.81	5.92	6.04	6.15	6.27	6.39	6.51	6.63	6.76	6.89	7.02	7.15	7.29	7.43	7.57
43	Rate Base	rRateBase	957.41	893.35	832.01	773.14	716.55	662.05	609.47	558.66	508.48	458.70	409.26	359.99	310.72	261.46	212.20	162.94	113.68
44																			
45	Return on Rate Base	rReturn	79.66	74.33	69.22	64.33	59.62	55.08	50.71	46.48	42.31	38.16	34.05	29.95	25.85	21.75	17.65	13.56	9.46
46	Return on Equity	rROE	100.53	93.80	87.36	81.18	75.24	69.52	63.99	58.66	53.39	48.16	42.97	37.80	32.63	27.45	22.28	17.11	11.94
47																			
48	Revenue Requiremen																		
49	Return on Rate Base		79.66	74.33	69.22	64.33	59.62	55.08	50.71	46.48	42.31	38.16	34.05	29.95	25.85	21.75	17.65	13.56	9.46
50	Depreciation expense		54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55
51	FIT- Total		54.13	50.51	47.04	43.71	40.51	37.43	34.46	31.59	28.75	25.93	23.14	20.35	17.57	14.78	12.00	9.21	6.43
52	SIT- Total		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
53	O&M		19.37	19.74	20.11	20.49	20.88	21.28	21.68	22.09	22.51	22.94	23.38	23.82	24.27	24.74	25.21	25.68	26.17
54	Property tax		2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
55																			
56	Revenue Requiremen	rRevReq	209.78	201.20	193.00	185.15	177.64	170.42	163.47	156.79	150.19	143.66	137.19	130.75	124.32	117.90	111.48	105.08	98.68
57																			92.30

MeterL Granite State Electric Company
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Line		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
58	FIT																		
59	Return on Equity	100.53	93.80	87.36	81.18	75.24	69.52	63.99	58.66	53.39	48.16	42.97	37.80	32.63	27.45	22.28	17.11	11.94	6.77
60	Depreciation expense	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55
61	SIT Current	0.43	(3.75)	(2.87)	(2.07)	(1.36)	(0.71)	(0.13)	0.39	0.86	1.28	1.66	1.84	1.84	1.84	1.84	1.84	1.84	1.84
62	FIT Depr Allowance	(37.50)	(72.19)	(66.77)	(61.77)	(57.13)	(52.85)	(48.88)	(45.22)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)
63	FIT Taxable Income	118.01	72.41	72.27	71.89	71.29	70.50	69.52	68.37	64.18	59.37	54.56	49.57	44.39	39.22	34.05	28.88	23.70	18.53
64																			
65	FIT Current	63.54	38.99	38.91	38.71	38.39	37.96	37.43	36.82	34.56	31.97	29.38	26.69	23.90	21.12	18.33	15.55	12.76	9.98
66	FIT Total	54.13	50.51	47.04	43.71	40.51	37.43	34.46	31.59	28.75	25.93	23.14	20.35	17.57	14.78	12.00	9.21	6.43	3.64
67																			
68	FIT Depreciation Allowance																		
69	FIT Deprec SL	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
70	FIT Deprec DDB	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
71	FIT Deprec Allow	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62
72																			
73	FIT Basis	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15
74																			
75	FIT Deprec DDB Bal	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15
76	FIT Remaining Years	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50
77																			
78	FIT Deferred	(5.97)	6.17	4.28	2.53	0.91	(0.59)	(1.98)	(3.26)	(3.48)	(3.48)	(3.48)	(3.48)	(3.48)	(3.48)	(3.48)	(3.48)	(3.48)	(3.48)
79	FIT ADIT	(5.97)	0.21	4.49	7.02	7.92	7.33	5.35	2.08	(1.39)	(4.87)	(8.35)	(11.82)	(15.30)	(18.77)	(22.25)	(25.72)	(29.20)	(32.67)
80																			
81	SIT																		
82	Return on Equity	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%
83	Depreciation expense	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55	54.55
84	SIT Depr Allowance	(50.00)	(95.00)	(85.50)	(76.95)	(69.26)	(62.33)	(56.10)	(50.49)	(45.44)	(40.89)	(36.80)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)
85	SIT Taxable Income	4.65	(40.35)	(30.85)	(22.30)	(14.60)	(7.68)	(1.45)	4.16	9.21	13.76	17.85	19.78	19.78	19.78	19.78	19.78	19.78	19.78
86																			
87	SIT Current	0.43	(3.75)	(2.87)	(2.07)	(1.36)	(0.71)	(0.13)	0.39	0.86	1.28	1.66	1.84	1.84	1.84	1.84	1.84	1.84	1.84
88	SIT Total	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
89																			
90	SIT Depreciation Allowance																		
91	SIT Deprec SL	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
92	SIT Deprec DDB	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87	34.87
93	SIT Deprec Allow	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87	34.87
94																			
95	SIT Basis	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04
96																			
97	SIT Deprec DDB Bal	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04
98	SIT Remaining Years	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50
99																			
100	SIT Deferred	(0.39)	3.44	2.63	1.90	1.25	0.66	0.13	(0.34)	(0.77)	(1.16)	(1.51)	(1.67)	(1.67)	(1.67)	(1.67)	(1.67)	(1.67)	(1.67)
101	SIT ADIT	(0.39)	3.05	5.68	7.59	8.84	9.50	9.63	9.29	8.51	7.35	5.84	4.17	2.50	0.83	(0.85)	(2.52)	(4.19)	(5.86)

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1	Line			Federal Tax		
2	Original Cost			FIT Basis \$		
3	Original Cost \$	Cost	\$1,000	FIT Basis \$	FIT_Basis	\$1,000
4	Depreciable life years	Depr_Life	30.0	FIT depreciation yrs	FIT_Life	20
5	Salvage %	Salvage	(50%)	FIT rate	FIT_Rate	35.00%
6	Depreciable basis	DeprBasis	\$1,500.00	FIT Gross-up	FIT_Mult	53.85%
7	Annual depreciation	AnnualDepr	\$50.00	FIT DDB Rate	FDB_Rate	150%
8	Year in service	Start_Yr	2012	FIT DDB %	FDBpct	7.50%
9	Depr Year 1	D_Yr1	100%	FIT Method	FIT_DDB	TRUE
10				FIT Year 1	F_Yr1	50%
11	Annual Costs Applied to			State Tax		
12	O&M	OM_pct	0.99%	Gross plant / inflated	SIT Basis \$	SIT_Basis
13	Property tax and Other	Prop_pct	0.00%	Gross plant	SIT depreciation yrs	SIT_Life
14	Work Cap/MS/Prepay in Rate Base		28.91%	O&M	SIT rate	SIT_Rate
15	Inflation rate	Inflation	1.90%	101.90%	SIT Gross-up	SIT_Mult
16					SIT DDB Rate	SDB_Rate
17	Cost of Capital				SIT DDB %	SDBpct
18	Wtd Avg Cost of Capital	WACC	8.32%		SIT Method	SIT_DDB
19	Wtd Return on Equity	WEqu	10.50%		SIT Year 1	S_Yr1
20						50%

23	NPV- Revenue Req	\$1,427	NPV- Levelized Charge	\$1,427
24	NPV- Plant	\$11,927	Inflation Adjustmen	7.64%
25	Economic Carrying Charge Rate	10.91% (ECCR)	Levelized Carrying Charge Rate (LCCR)	11.96%

27	Year	rYear	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
28	Year Number	rYearNum	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
29	Original Cost	rCost	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00		
30	Depreciation expense	rDepExp	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
31	Accum. depreciator	rAccumDep	50.00	100.00	150.00	200.00	250.00	300.00	350.00	400.00	450.00	500.00	550.00	600.00	650.00	700.00	750.00	800.00	850.00	900.00		
32	Net plant	rNetPlant	950.00	900.00	850.00	800.00	750.00	700.00	650.00	600.00	550.00	500.00	450.00	400.00	350.00	300.00	250.00	200.00	150.00	100.00		
33	Inflation Factor	rInflation	1.0000	1.0190	1.0384	1.0581	1.0782	1.0987	1.1196	1.1408	1.1625	1.1846	1.2071	1.2300	1.2534	1.2772	1.3015	1.3262	1.3514	1.3771		
34	Levelized Charge	rLevel	109.06	111.13	113.24	115.39	117.58	119.82	122.09	124.41	126.78	129.19	131.64	134.14	136.69	139.29	141.94	144.63	147.38	150.18		
35																						
36	Rate Base																					
37	Original Cost		1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00		
38	Accum. depreciator		(50.00)	(100.00)	(150.00)	(200.00)	(250.00)	(300.00)	(350.00)	(400.00)	(450.00)	(500.00)	(550.00)	(600.00)	(650.00)	(700.00)	(750.00)	(800.00)	(850.00)	(900.00)		
39	ADIT- Federal		4.38	(3.39)	(9.26)	(13.38)	(15.88)	(16.87)	(16.48)	(14.81)	(12.92)	(11.04)	(9.15)	(7.27)	(5.39)	(3.50)	(1.62)	0.27	2.15	4.04		
40	ADIT- State		0.00	(3.83)	(6.84)	(9.13)	(10.77)	(11.82)	(12.34)	(12.38)	(11.99)	(11.22)	(10.09)	(8.81)	(7.52)	(6.24)	(4.95)	(3.66)	(2.38)	(1.09)		
41	Work Cap/MS/Prepay	28.91%	2.86	2.92	2.97	3.03	3.09	3.14	3.20	3.26	3.33	3.39	3.45	3.52	3.59	3.65	3.72	3.79	3.87	3.94		
42	Rate Base	rRateBase	957.24	895.70	836.87	780.52	726.44	674.45	624.39	576.08	528.41	481.13	434.21	387.44	340.68	293.92	247.16	200.40	153.64	106.89		
43																						
44	Return on Rate Base	rReturn	79.64	74.52	69.63	64.94	60.44	56.11	51.95	47.93	43.96	40.03	36.13	32.24	28.34	24.45	20.56	16.67	12.78	8.89		
45	Return on Equity	rROE	100.51	94.05	87.87	81.95	76.28	70.82	65.56	60.49	55.48	50.52	45.59	40.68	35.77	30.86	25.95	21.04	16.13	11.22		
46																						
47	Revenue Requiremen																					
48	Return on Rate Base		79.64	74.52	69.63	64.94	60.44	56.11	51.95	47.93	43.96	40.03	36.13	32.24	28.34	24.45	20.56	16.67	12.78	8.89		
49	Depreciation expense		50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
50	FIT- Total		54.12	50.64	47.32	44.13	41.07	38.13	35.30	32.57	29.88	27.20	24.55	21.91	19.26	16.62	13.97	11.33	8.69	6.04		
51	SIT- Total		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
52	O&M		9.90	10.09	10.28	10.47	10.67	10.87	11.08	11.29	11.51	11.73	11.95	12.17	12.41	12.64	12.88	13.13	13.38	13.63		
53	Property tax		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
54																						
55	Revenue Requiremen	rRevReq	193.67	185.26	177.23	169.55	162.19	155.13	148.34	141.80	135.36	128.97	122.63	116.33	110.02	103.72	97.43	91.14	84.86	78.58		
56																						
57																						

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Line		2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029		
58	FIT																				
59	Return on Equity	100.51	94.05	87.87	81.95	76.28	70.82	65.56	60.49	55.48	50.52	45.59	40.68	35.77	30.86	25.95	21.04	16.13	11.22		
60	Depreciation expense	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
61	SIT Current	0.01	(4.17)	(3.29)	(2.49)	(1.78)	(1.14)	(0.56)	(0.04)	0.43	0.86	1.24	1.42	1.42	1.42	1.42	1.42	1.42	1.42		
62	FIT Depr Allowance	(37.50)	(72.19)	(66.77)	(61.77)	(57.13)	(52.85)	(48.88)	(45.22)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)	(44.62)		
63	FIT Taxable Income	<i>rFIT_Income</i>	113.02	67.69	67.81	67.69	67.36	66.83	66.12	65.23	61.30	56.76	52.21	47.48	42.57	37.66	32.75	27.84	22.93	18.02	
64																					
65	FIT Current	<i>rFIT_Curr</i>	60.86	36.45	36.51	36.45	36.27	35.99	35.60	35.13	33.01	30.56	28.11	25.57	22.92	20.28	17.64	14.99	12.35	9.70	
66	FIT Total	<i>rFIT_Total</i>	54.12	50.64	47.32	44.13	41.07	38.13	35.30	32.57	29.88	27.20	24.55	21.91	19.26	16.62	13.97	11.33	8.69	6.04	
67																					
68	FIT Depreciation Allowance																				
69	FIT Deprec SL	<i>rFIT_SL</i>	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
70	FIT Deprec DDB	<i>rFIT_DDB</i>	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62		
71	FIT Deprec Allow	<i>rFITDep</i>	37.50	72.19	66.77	61.77	57.13	52.85	48.88	45.22	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62	44.62		
72																					
73	FIT Basis	<i>rFITBasis</i>	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15	111.54
74																					
75	FIT Deprec DDB Bal	<i>rFIT_DDB_Bal</i>	1,000.00	962.50	890.31	823.54	761.77	704.64	651.79	602.91	557.69	513.07	468.46	423.84	379.23	334.61	290.00	245.38	200.77	156.15	111.54
76	FIT Remaining Years	<i>rFIT_RemY</i>	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50	2.50
77																					
78	FIT Deferred	<i>rFIT_Defd</i>	(4.38)	7.77	5.87	4.12	2.50	1.00	(0.39)	(1.67)	(1.88)	(1.88)	(1.88)	(1.88)	(1.88)	(1.88)	(1.88)	(1.88)	(1.88)		
79	FIT ADIT	<i>rFIT_ADIT</i>	(4.38)	3.39	9.26	13.38	15.88	16.87	16.48	14.81	12.92	11.04	9.15	7.27	5.39	3.50	1.62	(0.27)	(2.15)	(4.04)	
80																					
81	SIT																				
82	Return on Equity	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%	10.50%		
83	Depreciation expense	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
84	SIT Depr Allowance	(50.00)	(95.00)	(85.50)	(76.95)	(69.26)	(62.33)	(56.10)	(50.49)	(45.44)	(40.89)	(36.80)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)	(34.87)		
85	SIT Taxable Income	<i>rSIT_Income</i>	0.10	(44.90)	(35.40)	(26.85)	(19.15)	(12.22)	(5.99)	(0.38)	4.67	9.21	13.30	15.24	15.24	15.24	15.24	15.24	15.24		
86																					
87	SIT Current	<i>rSIT_Curr</i>	0.01	(4.17)	(3.29)	(2.49)	(1.78)	(1.14)	(0.56)	(0.04)	0.43	0.86	1.24	1.42	1.42	1.42	1.42	1.42	1.42		
88	SIT Total	<i>rSIT_Total</i>	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
89																					
90	SIT Depreciation Allowance																				
91	SIT Deprec SL	<i>rSIT_SL</i>	25.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00		
92	SIT Deprec DDB	<i>rSIT_DDB</i>	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87		
93	SIT Deprec Allow	<i>rSITDep</i>	50.00	95.00	85.50	76.95	69.26	62.33	56.10	50.49	45.44	40.89	36.80	34.87	34.87	34.87	34.87	34.87	34.87		
94																					
95	SIT Basis	<i>rSITBasis</i>	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04	87.17
96																					
97	SIT Deprec DDB Bal	<i>rSIT_DDB_Bal</i>	1,000.00	950.00	855.00	769.50	692.55	623.30	560.97	504.87	454.38	408.94	368.05	331.24	296.38	261.51	226.64	191.77	156.91	122.04	87.17
98	SIT Remaining Years	<i>rSIT_RemY</i>	20.50	19.50	18.50	17.50	16.50	15.50	14.50	13.50	12.50	11.50	10.50	9.50	8.50	7.50	6.50	5.50	4.50	3.50	2.50
99																					
100	SIT Deferred	<i>rSIT_Defd</i>	0.00	3.83	3.02	2.29	1.64	1.05	0.52	0.04	(0.39)	(0.77)	(1.12)	(1.29)	(1.29)	(1.29)	(1.29)	(1.29)	(1.29)		
101	SIT ADIT	<i>rSIT_ADIT</i>	0.00	3.83	6.84	9.13	10.77	11.82	12.34	12.38	11.99	11.22	10.09	8.81	7.52	6.24	4.95	3.66	2.38	1.09	

HW_M **Granite State Electric Company**
Sch. 17 **Marginal Cost Study**
vFINAL **Cost Inflation Indices**

Ln		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		
	Year	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	
3																												
4	Transmission Plant																											
5	Total Transmission Plant	291	304	305	315	307	316	325	326	332	341	352	355	357	358	364	366	375	377	379	378	380	399	404	408	415	416	
6																												
7	Distribution Plant																											
8	Total Distribution Plant	275	281	281	291	284	290	297	297	301	307	314	316	320	322	323	326	332	334	337	336	338	346	352	354	363	368	
9	Annual	2.39		2.32		2.32		2.24		2.19		2.11		2.07		2.05		2.00		1.97		1.94		1.88		1.82		
10																												
11	GDP Cost Index	139		145		149		153		155		159		163		168		172		176		184		191.5		196.5		
12	GDP Cost Deflator	1.78		1.71		1.67		1.62		1.60		1.56		1.52		1.47		1.44		1.41		1.35		1.29		1.26		
13	Source: Bureau of Labor Statistics series CUURA103SA0 (CPI, All urban consumers, Boston-Brockton-Nashua, MA-NH-ME-CT, 1982-1984=100)																											
14																												

HW_M **Granite State Electric Compa**
Sch. 17 **Marginal Cost Study**
vFINAL **Cost Inflation Indices**

Ln	Year	Cost Index Numbers																					
		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012			
		Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul	Jan	Jul		
3	Transmission Plant																						
5	Total Transmission Plant	419	416	429	455	474	486	509	523	549	564	604	629	642	610	636	638	654	669	675	682.4		
7	Distribution Plant																						
8	Total Distribution Plant	371	373	382	398	419	428	455	473	513	521	575	576	602	591	609	617	634	649	667	662		
9	Annual	1.79		1.70		1.57		1.43		1.29		1.15		1.11		1.08		1.04		1.00			
11	GDP Cost Index	203.9		209.5		216.4		223.1		227.4		235.4		233.8		237.4		243.9		247.6	247.6		
12	GDP Cost Deflator	1.21		1.18		1.14		1.11		1.09		1.05		1.06		1.04		1.02		1.00			
13	Source: Bureau of Labor Statistics ser																						
14																							

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**Granite State Electric Company
Attachment HSG-3
Revenue Allocation and Rates**

Line	Schedule	Reference
1	Revenue Allocation for Permanent Rates	
2	Revenue Allocation Using Marginal Costs	Sch. HSG- 18
3	Revenue at Current Rates- Normalized	Sch. HSG- 19
4	Total Revenue	Sch. HSG- 19A
5	Revenue at Proposed Rates- Normalized	Sch. HSG- 20
6		
7	Bill Impacts for Permanent Rates	
8	Comparison of Rates- Current vs. Proposed	Sch. HSG- 21
9	Bill Impacts- Rate D	Sch. HSG- 21A
10	Bill Impacts- Rate D10	Sch. HSG- 21B
11	Bill Impacts- Rate G1	Sch. HSG- 21C
12	Bill Impacts- Rate G1 with HVM / HVD	Sch. HSG- 21D
13	Bill Impacts- Rate G2	Sch. HSG- 21E
14	Bill Impacts- Rate G3	Sch. HSG- 21F
15	Bill Impacts- Rate T	Sch. HSG- 21G
16	Bill Impacts- Rate V	Sch. HSG- 21H
17	Bill Impacts- Rate M	Sch. HSG- 21I

RevAlloc. **Granite State Electric Company**

Sch. 18 **Revenue Allocation and Rates**

vFINAL **Revenue Allocation Using Marginal Costs**

Marginal vFINAL using RRM vFINAL dated 2013-03-15

Line	Description	Source	Rate:								
			Total	D Domestic	D-10 Domestic- Opt. Peak	G-1 General TOU	G-2 General Long Hour	G-3 General Service	M Outdoor Lighting	T Limited All Electric	V Ltd Comm Space
1	Marginal Demand	Sch. 1	25,552,419	9,316,614	170,306	8,521,124	4,107,627	2,719,225	136,403	573,018	8,102
2	Marginal Customer	Sch. 1	8,825,943	6,229,440	74,599	61,453	290,716	1,035,155	917,708	215,192	1,680
3	Total Annual Costs		34,378,362	15,546,054	244,905	8,582,578	4,398,343	3,754,380	1,054,110	788,210	9,782
4											
5	Total Revenue Requirement	RR-1	40,840,699								
6	Less: Other revenue	RR-2	2,006,658								
7	Revenue requirement for rates		38,834,041								
8											
9	Proportional increase	13%	4,455,679	2,014,879	31,741	1,112,363	570,056	486,594	136,620	102,158	1,268
10	Revenue allocation- preliminary		38,834,041	17,560,933	276,647	9,694,941	4,968,400	4,240,974	1,190,730	890,368	11,049
11			24,665,101								
12	Revenue at current rates	Sch. 19	24,665,101	11,979,447	133,499	4,986,358	3,068,341	3,446,059	582,429	460,428	8,540
13	Preliminary increase (decrease)		14,168,940	5,581,486	143,148	4,708,582	1,900,059	794,915	608,301	429,940	2,510
14	Preliminary increase %		57.45%	47%	107%	94%	62%	23%	104%	93%	29%
15	Preliminary increase- relative		1.00	0.81	1.87	1.64	1.08	0.40	1.82	1.63	0.51
16											
17	Revenue at current rates		24,665,101	11,979,447	133,499	4,986,358	3,068,341	3,446,059	582,429	460,428	8,540
18	Preliminary increase (decrease)		14,168,940	5,581,486	143,148	4,708,582	1,900,059	794,915	608,301	429,940	2,510
19	Adjust to minimum increase	0.0%	0	0	0	0	0	0	0	0	0
20	Adjust to maximum increase	1.500	(746,976)	0	(28,115)	(411,940)	0	0	(273,723)	(33,198)	0
21	Final adjustment		746,976	390,466	0	0	0	355,791	0	0	720
22	Proposed revenue allocation		38,834,041	17,951,398	248,532	9,283,001	4,968,400	4,596,765	917,007	857,169	11,769
23	Proposed increase		14,168,940	5,971,952	115,033	4,296,642	1,900,059	1,150,705	334,578	396,741	3,229
24	Proposed increase %		57%	50%	86%	86%	62%	33%	57%	86%	38%
25	Proposed increase- relative		1.00	0.87	1.50	1.50	1.08	0.58	1.00	1.50	0.66
26											
27	Proposed revenue / Proportional Adjusted marginal cost	Line 22 /line 10	100.00%	102%	90%	96%	100%	108%	77%	96%	107%
28	Difference to Revenue requirement		\$0								

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CurrRates. **Granite State Electric Company**
Sch. 19 **Revenue Allocation and Rates**
vFINAL **Revenue at Current Rates- Normalized**

Line	Description	Includes	Customer Charge			Demand Charge			kWh-Based Charge		
			Annual Bills	Monthly Charge	Customer Chg Revenue	Billing Demand	Demand Charge	Demand Chg Revenue	kWh Deliveries X 1000	kWh-Based Chg	kWh-Based Chg Revenue
1	Domestic	D	416,486	\$4.36	1,815,879				280,551,600	See below	9,687,027
2	Domestic Off Peak 6	D-6							844,165	\$0.01703	14,376
3	Domestic-Opt. Peak	D-10	4,924	\$7.49	36,881				5,143,867	See below	87,461
4	General TOU	G-1	1,480	\$93.37	138,171	945,924	\$4.07	3,849,910	366,292,878	See below	423,184
5	General Long Hour	G-2	10,524	\$24.98	262,886	529,643	\$4.49	2,378,098	156,145,724	\$0.00086	134,285
6	General Service	G-3	66,111	\$5.52	364,932				93,001,126	\$0.03144	2,923,955
7	Outdoor Lighting	M	1,188		-				4,691,956	From Lighting	573,702
8	Limited All Electric	T	13,777	\$5.64	77,700				17,681,017	\$0.02073	366,527
9	Ltd Comm Space	V	240		-				277,086	\$0.02905	8,049
10			<u>514,729</u>		<u>2,696,449</u>	<u>1,475,567</u>		<u>6,228,008</u>	<u>924,629,419</u>		<u>14,218,568</u>
11			522,102						924,629,419		
12	<u>Domestic</u>										
13	Residential							Block 1	87,251,729	\$0.01703	1,485,897
14								Block 2	176,118,865	\$0.04348	7,657,648
15								Step 2	309,815	\$0.04348	13,471
16								Step 3 (Farm)	1,042,639	\$0.02618	27,296
17	Resi Peak Off Peak							On Peak	3,320,031	\$0.03037	100,829
18								Off Peak	1,652,618	\$0.01631	26,954
19	Resi Low Inc							On Peak	145,113	\$0.03037	4,407
20	Residential Low Inc							Off Peak	74,993	\$0.01703	1,277
21								Block 1	3,523,520	\$0.01703	60,006
22								Block 2	7,112,276	\$0.04348	309,242
23									<u>280,551,600</u>		<u>9,687,027</u>
24									281,395,765		
25											
26	<u>Domestic Off Peak 6</u>							All kWh	844,165		
27											
28	<u>Domestic-Opt. Peak</u>										
29	Residential TOU	D15-IH						On Peak	1,775,044	\$0.04821	85,575
30	Resi TOU Low Inc	D51-D56-IH						Off Peak	3,368,823	\$0.00056	1,887
31	Resi TOU Low Inc Wtr	D61-D66-IH							<u>5,143,867</u>		<u>87,461</u>
32									5,143,867		
33	<u>General TOU</u>										
34	On-Peak	G-1 On						On Peak	163,954,858	\$0.00189	309,875
35	Off-Peak	G-1 Off						Off Peak	202,338,020	\$0.00056	113,309
36									<u>366,292,878</u>		<u>423,184</u>

CurrRates. **Granite State Electric Company**
Sch. 19 **Revenue Allocation and Rates**
vFINAL **Revenue at Current Rates- Norm**

Line	Description	Includes	Adders / Default	Storm	High Voltage Metering	High Voltage Delivery	Interruptible Credits	Optional Demand	Total Distribution Revenue	HVM %	HVD kW	Commodity
1	Domestic	D	(151,498)	625,630			(13,394)		11,963,644			18,452,384
2	Domestic Off Peak 6	D-6	(456)	1,882					15,803			56,279
3	Domestic-Opt. Peak	D-10	(2,315)	11,471					133,499			380,338
4	General TOU	G-1	(135,528)	816,833	(54,064)	(78,918)		26,771	4,986,358	52.5%	315,672	5,886,656
5	General Long Hour	G-2	(57,774)	348,205	(662)	(181)		3,483	3,068,341	0.7%	725	6,421,624
6	General Service	G-3	(50,221)	207,393					3,446,059			5,304,662
7	Outdoor Lighting	M	(1,736)	10,463					582,429			139,626
8	Limited All Electric	T	(7,780)	39,429			(15,448)		460,428			1,273,655
9	Ltd Comm Space	V	(127)	618					8,540			18,779
10			<u>(407,434)</u>	<u>2,061,924</u>	<u>(54,726)</u>	<u>(79,099)</u>	<u>(28,842)</u>	<u>30,255</u>	<u>24,665,101</u>		<u>316,397</u>	<u>37,934,003</u>
11											<i>312,727</i>	<i>37,934,003</i>
12	<u>Domestic</u>											
13	Residential			\$0.00223	(1.0%)	(\$0.25)						
14												
15												
16												
17	Resi Peak Off Peak											
18												
19	Resi Low Inc											
20	Residential Low Inc											
21												
22												
23												
24												
25												
26	<u>Domestic Off Peak 6</u>											
27												
28	<u>Domestic-Opt. Peak</u>											
29	Residential TOU	D15-IH										
30	Resi TOU Low Inc	D51-D56-I										
31	Resi TOU Low Inc Wtr	D61-D66-I										
32												
33	<u>General TOU</u>											
34	On-Peak	G-1 On										
35	Off-Peak	G-1 Off										
36												

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TotalRev_ **Granite State Electric Company**
Sch. 19A **Revenue Allocation and Rates**
vFINAL **Total Revenue**

Line	Description	In-cludes	Annual Bills		Demand kW		kWh Deliveries X 1000		Distribution Revenue	
			Actual 2012	Normal-ized	Actual 2012	Normal-ized	Actual 2012	Normalized	Actual 2012	Normalized
1	Domestic	D	411,084	416,486			272,848,622	280,551,600	11,527,071	11,963,644
2	Domestic Off Peak 6	D-6	-	-			820,987	844,165	15,088	15,803
3	Domestic-Opt. Peak	D-10	5,258	4,924			5,472,389	5,143,867	140,152	133,499
4	General TOU	G-1	1,504	1,480	934,953	945,924	362,044,643	366,292,878	4,829,657	4,986,358
5	General Long Hour	G-2	10,156	10,524	522,899	529,643	154,157,409	156,145,724	2,978,274	3,068,341
6	General Service	G-3	66,437	66,111			92,009,362	93,001,126	3,386,824	3,446,059
7	Outdoor Lighting	M					4,654,454	4,691,956	580,766	582,429
8	Limited All Electric	T	14,218	13,777			18,461,561	17,681,017	473,244	460,428
9	Ltd Comm Space	V	228	240			289,719	277,086	8,838	8,540
10			<u>508,885</u>	<u>513,541</u>	<u>1,457,852</u>	<u>1,475,567</u>	<u>910,759,146</u>	<u>924,629,419</u>	<u>23,939,914</u>	<u>24,665,101</u>
11										
12	Distribution revenue- calculated								23,939,914	
13	Distribution revenue- difference to GL								(70,745)	
14	Commodity								36,665,612	
15	Transmission								15,218,970	
16	Transition								117,251	
17	System Benefits								303,243	
18	Tax								283,642	
19	EAP								965,880	
20	Border / Fairpoint								165,571	
21	Miscellaneous revenue								166,926	
22									<u>77,756,265</u>	
23	Per Revenue Requirements								<u>77,756,745</u>	
24	Difference								<u>(481)</u>	
25										

Line	Description	Includes	Customer Charge							
			Current Rates Revenue	Revenue Allocation	Proposed Distribution Increase	Annual Bills	Current Charge	Monthly Marginal Cost	Proposed Rate	Customer Charge Revenue
			(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
			Sch. 18	Sch. 18	(B) X (A)-1	Sch. 1	Tariff	Sch. 4	Input	(D) X (G)
1	Domestic	D	\$11,979,447	\$17,951,398	49.85%	416,486	\$4.36	\$15.05	\$11.00	\$4,581,345
2	Domestic Off Peak 6	D-6								-
3	Domestic-Opt. Peak	D-10	133,499	248,532	86.17%	4,924	\$7.49	\$15.05	\$11.00	54,165
4	General TOU	G-1	4,986,358	9,283,001	86.17%	1,480	\$93.37	\$41.92	\$300.00	443,946
5	General Long Hour	G-2	3,068,341	4,968,400	61.92%	10,524	\$24.98	\$28.42	\$50.00	526,194
6	General Service	G-3	3,446,059	4,596,765	33.39%	66,111	\$5.52	\$15.64	\$11.00	727,219
7	Outdoor Lighting	M	582,429	917,007	57.45%	1,188				
8	Limited All Electric	T	460,428	857,169	86.17%	13,777	\$5.64	\$15.05	\$11.00	151,542
9	Ltd Comm Space	V	8,540	11,769	37.81%	240		\$7.30	\$0.00	-
10			<u>\$24,665,101</u>	<u>\$38,834,041</u>	57.45%	<u>514,729</u>				<u>\$6,484,411</u>
11										
12	<u>Domestic</u>									
13	Residential	D05								
14										
15										
16										
17	Resi Peak Off Peak	D0516HR								
18										
19	Resi Low Inc	D7116HR								
20	Residential Low Inc	D71-76								
21										
22										
23										
24										
25	<u>Domestic-Opt. Peak</u>									
26	Residential TOU	D15-IH								
27	Resi TOU Low Inc	D51-D56-IH								
28	Resi TOU Low Inc Wtr	D61-D66-IH								
29										
30	<u>General TOU</u>									
31	On-Peak	G-1 On								
32	Off-Peak	G-1 Off								
33										

Line	Description	Includes	Demand Charge					kWh-Based Charge			
			Billing Demand	Current Charge	Cost per kW-Month	Proposed Rate	Demand Charge Revenue	Balance of Revenue Allocation	kWh Deliveries X 1000	Proposed Rate	kWh-Based Chg Revenue
			(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)
			<i>Sch. 1</i>	<i>Tariff</i>	<i>Sch. 2</i>	<i>Input</i>	<i>(I) X (L)</i>	<i>(B)-(H)-(M)</i>		<i>Rate to produce target revenue</i>	<i>(O) X (P)</i>
1	Domestic	D			\$10.07			\$13,370,053	280,551,600	See below	13,030,764
2	Domestic Off Peak 6	D-6			\$10.07			-	844,165	\$0.03470	29,293
3	Domestic-Opt. Peak	D-10			\$10.07			194,367	5,143,867	See below	187,519
4	General TOU	G-1	945,924	\$4.07	\$9.01	\$7.12	\$6,734,977	2,104,077	366,292,878	See below	1,769,291
5	General Long Hour	G-2	529,643	\$4.49	\$10.07	\$7.18	3,802,838	639,368	156,145,724	\$0.00271	423,155
6	General Service	G-3			\$10.07			3,869,545	93,001,126	\$0.04043	3,760,036
7	Outdoor Lighting	M			\$10.07			917,007	4,691,956		910,350
8	Limited All Electric	T			\$10.07			705,627	17,681,017	\$0.03999	707,064
9	Ltd Comm Space	V			\$10.07			11,769	277,086	\$0.04118	11,410
10			<u>1,475,567</u>				<u>\$10,537,815</u>	<u>\$21,811,814</u>	<u>924,629,419</u>		<u>\$20,828,882</u>
11									924,629,419	150%	Rate D Incline
12	<u>Domestic</u>										
13	Residential	D05					Block 1		87,251,729	\$0.03470	3,027,635
14							Block 2		176,118,865	\$0.05205	9,166,987
15							Step 2		309,815	\$0.05205	16,126
16							Step 3 (Farm)		1,042,639	\$0.05334	55,614
17	Resi Peak Off Peak	D0516HR					On Peak		3,320,031	\$0.06188	205,443
18							Off Peak		1,652,618	\$0.03323	54,917
19	Resi Low Inc	D7116HR					On Peak		145,113	\$0.06188	8,980
20	Residential Low Inc	D71-76					Off Peak		74,993	\$0.03470	2,602
21							Block 1		3,523,520	\$0.03470	122,266
22							Block 2		7,112,276	\$0.05205	370,194
23									<u>280,551,600</u>		<u>13,030,764</u>
24											
25	<u>Domestic-Opt. Peak</u>										
26	Residential TOU	D15-IH					On Peak		1,775,044	\$0.10401	184,622
27	Resi TOU Low Inc	D51-D56-					Off Peak		3,368,823	\$0.00086	2,897
28	Resi TOU Low Inc Wtr	D61-D66-							<u>5,143,867</u>		<u>187,519</u>
29											
30	<u>General TOU</u>										
31	On-Peak	G-1 On					On Peak		163,954,858	\$0.00973	1,595,281
32	Off-Peak	G-1 Off					Off Peak		202,338,020	\$0.00086	174,011
33									<u>366,292,878</u>		<u>1,769,291</u>

Line	Description	Includes	Adders / Default	Storm	Rate Case Expense	High Voltage Metering	High Voltage Delivery	Interruptible Credits	Optional Demand	Total Distribution Revenue	Difference to Target		
			(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)		
			<i>(O) X 0.00130 (O) X 0.00042</i>									<i>Sum (H), (M), (Q) to (X)</i>	<i>(Y) - (B) To nearest \$000</i>
1	Domestic	D	(151,498)	364,717	117,832			(21,088)		17,922,072	(29,000)		
2	Domestic Off Peak 6	D-6	(456)	1,097	355					30,289	30,000		
3	Domestic-Opt. Peak	D-10	(2,315)	6,687	2,160					248,217	0		
4	General TOU	G-1	(135,528)	476,181	153,843	(77,883)	(124,253)		42,150	9,282,725	0		
5	General Long Hour	G-2	(57,774)	202,989	65,581	(805)	(285)		5,485	4,967,378	(1,000)		
6	General Service	G-3	(50,221)	120,901	39,060					4,596,996	0		
7	Outdoor Lighting	M	(1,736)	6,100	1,971					916,684	0		
8	Limited All Electric	T	(7,780)	22,985	7,426			(24,323)		856,915	0		
9	Ltd Comm Space	V	(127)	360	116					11,760	(10)		
10			(407,434)	1,202,018	388,344	(78,688)	(124,538)	(45,411)	47,635	38,833,035	(10)		
11				<i>RR-3-10</i>	<i>RR-3-16</i>	<i>Sch. 19</i>	<i>Sch. 18</i>	<i>Sch. 18</i>	<i>Sch. 18</i>	<i>38,834,041</i>	<i>(1,006)</i>		
12	<u>Domestic</u>		<i>Amount-</i>	1,200,000	390,000	<i>Same %</i>	<i>Overall inc.=</i>	<i>Overall increase=</i>					
13	Residential	D05	<i>Rate=</i>	\$0.00130	\$0.00042	(1.0%)	(\$0.39)	57.45%	57.45%				
14													
15													
16													
17	Resi Peak Off Peak	D0516HR											
18													
19	Resi Low Inc	D7116HR											
20	Residential Low Inc	D71-76											
21													
22													
23													
24													
25	<u>Domestic-Opt. Peak</u>												
26	Residential TOU	D15-IH											
27	Resi TOU Low Inc	D51-D56-											
28	Resi TOU Low Inc Wtr	D61-D66-											
29													
30	<u>General TOU</u>												
31	On-Peak	G-1 On											
32	Off-Peak	G-1 Off											
33													

0800

Compare, **Granite State Electric Company**
Sch. 21 **Revenue Allocation and Rates**
vFINAL **Comparison of Rates- Current vs. Proposed**

Line	Description	In-cludes	Overall Revenue Increase	Customer Charge			All Demand-Based Charges			All kWh-Based Charges			Current Rates Proposed Rates								
				Current Rate	Proposed Rate	In-crease	Current Rate	Proposed Rate	In-crease	Current Rate	Proposed Rate	In-crease	% of Revenue			Cus-tomer	kWh	De-mand	Cus-tomer	kWh	De-mand
													(K)	(L)	(M)						
				(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)		
Sch. 20	Sch. 20	Sch. 20	[(C)/ (B)]-1	Sch. 19	Sch. 20	[(F)/ (E)]-1	Sch. 19	Sch. 20	[(I)/ (H)]-1	Sch. 19			Sch. 20								
1	Domestic	D	50%	\$4.36	\$11.00	152%				(a) \$0.03622	\$0.04763	31%	15%	85%		26%	74%				
2	Domestic Off Peak 6	D-6								\$0.01872	\$0.03588	92%	-	100%		-	100%				
3	Domestic-Opt. Peak	D-10	86%	\$7.49	\$11.00	47%				(a) \$0.01878	\$0.03772	101%	28%	72%		22%	78%				
4	General TOU	G-1	86%	\$93.37	\$300.00	221%	\$3.96	\$6.95	76%	(a) \$0.00302	\$0.00618	105%	3%	22%	75%	5%	24%	71%			
5	General Long Hour	G-2	62%	\$24.98	\$50.00	100%	\$4.49	\$7.19	60%	\$0.00272	\$0.00406	49%	9%	14%	78%	11%	13%	77%			
6	General Service	G-3	33%	\$5.52	\$ 11.00	99%				\$0.03313	\$0.04161	26%	11%	89%		16%	84%				
7	Outdoor Lighting	M											-	100%		-	100%				
8	Limited All Electric	T	86%	\$5.64	\$11.00	95%				\$0.02252	\$0.04127	83%	17%	83%		18%	82%				
9	Ltd Comm Space	V	38%							\$0.03082	\$0.04244	38%	-	100%		-	100%				
10																					
11	Overall		57%							(a) Averages			11%	64%	25%	17%	57%	27%			

Bill_D_R Granite State Electric Company
Sch. 21A Revenue Allocation and Rates
vFINAL Bill Impacts- Rate D

Line	Monthly Usage- kWh	Current Rates				Proposed Rates				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$4.36	\$0.00	\$0.00	\$4.36	\$11.00	\$0.00	\$0.00	\$11.00	\$6.64	152.3%	152.3%
2	5	\$4.44	\$0.13	\$0.38	\$4.95	\$11.17	\$0.13	\$0.38	\$11.68	\$6.73	147.1%	135.9%
3	10	\$4.52	\$0.26	\$0.75	\$5.54	\$11.35	\$0.25	\$0.75	\$12.35	\$6.81	142.3%	123.0%
4	25	\$4.77	\$0.65	\$1.88	\$7.31	\$11.86	\$0.63	\$1.88	\$14.38	\$7.07	130.3%	96.7%
5	50	\$5.18	\$1.31	\$3.76	\$10.25	\$12.73	\$1.26	\$3.76	\$17.75	\$7.50	115.5%	73.1%
6	100	\$6.01	\$2.61	\$7.53	\$16.15	\$14.46	\$2.52	\$7.53	\$24.50	\$8.36	96.9%	51.7%
7	200	\$7.66	\$5.23	\$15.05	\$27.94	\$17.92	\$5.04	\$15.05	\$38.01	\$10.07	78.2%	36.1%
8	300	\$10.63	\$7.84	\$22.58	\$41.05	\$22.24	\$7.56	\$22.58	\$52.38	\$11.33	61.4%	27.6%
9	400	\$14.92	\$10.46	\$30.10	\$55.48	\$27.43	\$10.08	\$30.10	\$67.62	\$12.14	47.8%	21.9%
10	500 Typical bill	\$19.22	\$13.07	\$37.63	\$69.91	\$32.63	\$12.61	\$37.63	\$82.86	\$12.95	40.1%	18.5%
11	600	\$23.51	\$15.68	\$45.15	\$84.35	\$37.82	\$15.13	\$45.15	\$98.10	\$13.75	35.1%	16.3%
12	674 Average	\$26.69	\$17.62	\$50.72	\$95.03	\$41.66	\$16.99	\$50.72	\$109.37	\$14.35	32.4%	15.1%
13	700	\$27.81	\$18.30	\$52.68	\$98.78	\$43.01	\$17.65	\$52.68	\$113.34	\$14.56	31.6%	14.7%
14	800	\$32.10	\$20.91	\$60.20	\$113.21	\$48.21	\$20.17	\$60.20	\$128.57	\$15.36	29.0%	13.6%
15	900	\$36.39	\$23.53	\$67.73	\$127.64	\$53.40	\$22.69	\$67.73	\$143.81	\$16.17	27.0%	12.7%
16	1000	\$40.69	\$26.14	\$75.25	\$142.08	\$58.59	\$25.21	\$75.25	\$159.05	\$16.98	25.4%	11.9%
17	1500	\$62.16	\$39.21	\$112.88	\$214.24	\$84.56	\$37.82	\$112.88	\$235.25	\$21.01	20.7%	9.8%
18	2000	\$83.63	\$52.28	\$150.50	\$286.41	\$110.52	\$50.42	\$150.50	\$311.44	\$25.04	18.4%	8.7%
19	3000	\$126.57	\$78.42	\$225.75	\$430.74	\$162.45	\$75.63	\$225.75	\$463.83	\$33.10	16.1%	7.7%
20	4000	\$169.51	\$104.56	\$301.00	\$575.07	\$214.38	\$100.84	\$301.00	\$616.22	\$41.16	15.0%	7.2%
21	5000	\$212.45	\$130.70	\$376.25	\$719.40	\$266.31	\$126.05	\$376.25	\$768.61	\$49.22	14.3%	6.8%
22												

Bill_D_R Granite State Electric Company
Sch. 21A Revenue Allocation and Rates
vFINAL Bill Impacts- Rate D

Line	Monthly Usage- kWh	Current Rates				Proposed Rates				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
23	Rates											
24	Distribution Charges		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
25	Customer Charge	\$4.36				\$11.00						
26	First 250 kWh	\$0.01703	\$0.01649	\$0.02614	\$0.04263	\$0.03470	\$0.03458	\$0.02521	\$0.05979			
27	Excess 250 kWh	\$0.04348	\$0.04294	\$0.02614	\$0.06908	\$0.05205	\$0.05193	\$0.02521	\$0.07714			
28												
29	Per kWh- All kWh											
30	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
31	Rate Case expense			Distribution		\$0.00042						
32	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
33	Transmission Charge	\$0.01856		Other Delivery		\$0.01856						
34	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
35	Stranded Cost Recovery	\$0.00150		Other Delivery		\$0.00150						
36	REP	(\$0.00037)		Distribution		(\$0.00037)						
37	Default Service Reclas	<u>(0.00017)</u>		Distribution		<u>(0.00017)</u>						
38		<u>\$0.02560</u>				<u>\$0.02509</u>						
39	Commodity, Default Service	\$0.07525				\$0.07525						

Bill_D10_ Granite State Electric Company
Sch. 21B Revenue Allocation and Rates
vFINAL Bill Impacts- Rate D10

Line	Monthly Usage- kWh	Current Rates				Proposed Rates				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$7.49	\$0.00	\$0.00	\$7.49	\$11.00	\$0.00	\$0.00	\$11.00	\$3.51	46.9%	46.9%
2	5	\$7.59	\$0.12	\$0.38	\$8.08	\$11.21	\$0.12	\$0.38	\$11.70	\$3.62	47.0%	44.8%
3	10	\$7.63	\$0.24	\$0.75	\$8.63	\$11.32	\$0.23	\$0.75	\$12.30	\$3.67	46.6%	42.6%
4	25	\$7.92	\$0.61	\$1.88	\$10.41	\$11.95	\$0.58	\$1.88	\$14.41	\$4.00	46.9%	38.5%
5	50	\$8.31	\$1.22	\$3.76	\$13.28	\$12.80	\$1.17	\$3.76	\$17.73	\$4.44	46.7%	33.4%
6	100	\$9.17	\$2.43	\$7.53	\$19.12	\$14.69	\$2.34	\$7.53	\$24.56	\$5.43	46.8%	28.4%
7	200	\$10.80	\$4.86	\$15.05	\$30.71	\$18.28	\$4.68	\$15.05	\$38.01	\$7.30	46.6%	23.8%
8	300	\$12.48	\$7.29	\$22.58	\$42.35	\$21.98	\$7.01	\$22.58	\$51.57	\$9.22	46.6%	21.8%
9	400	\$14.11	\$9.72	\$30.10	\$53.93	\$25.57	\$9.35	\$30.10	\$65.02	\$11.09	46.5%	20.6%
10	500	\$15.79	\$12.16	\$37.63	\$65.57	\$29.26	\$11.69	\$37.63	\$78.57	\$13.01	46.5%	19.8%
11	600	\$17.42	\$14.59	\$45.15	\$77.16	\$32.85	\$14.03	\$45.15	\$92.03	\$14.87	46.5%	19.3%
12	700	\$19.10	\$17.02	\$52.68	\$88.79	\$36.54	\$16.37	\$52.68	\$105.58	\$16.79	46.5%	18.9%
13	800	\$20.73	\$19.45	\$60.20	\$100.38	\$40.13	\$18.70	\$60.20	\$119.04	\$18.66	46.4%	18.6%
14	900	\$22.41	\$21.88	\$67.73	\$112.01	\$43.83	\$21.04	\$67.73	\$132.59	\$20.58	46.5%	18.4%
15	1000	\$24.04	\$24.31	\$75.25	\$123.60	\$47.42	\$23.38	\$75.25	\$146.05	\$22.45	46.4%	18.2%
16	1500	\$32.34	\$36.47	\$112.88	\$181.68	\$65.68	\$35.07	\$112.88	\$213.62	\$31.94	46.4%	17.6%
17	2000	\$40.59	\$48.62	\$150.50	\$239.71	\$83.83	\$46.76	\$150.50	\$281.09	\$41.39	46.4%	17.3%
18	3000	\$57.14	\$72.93	\$225.75	\$355.82	\$120.25	\$70.14	\$225.75	\$416.14	\$60.32	46.4%	17.0%
19	4000	\$73.69	\$97.24	\$301.00	\$471.93	\$156.67	\$93.52	\$301.00	\$551.19	\$79.26	46.4%	16.8%
20	5000	\$90.24	\$121.55	\$376.25	\$588.04	\$193.08	\$116.90	\$376.25	\$686.23	\$98.20	46.4%	16.7%
21												

Bill_D10_ Granite State Electric Company
Sch. 21B Revenue Allocation and Rates
vFINAL Bill Impacts- Rate D10

Line	Monthly Usage- kWh	Current Rates			Proposed Rates			Increase				
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
22	Rates											
23	Distribution Charges		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
24	Customer Charge	\$7.49				\$11.00						
25	On Peak	\$0.04821	\$0.04776	\$0.02431	\$0.07207	\$0.10401	\$0.10398	\$0.02338	\$0.12736			
26	Off Peak	\$0.00056	\$0.00011	\$0.02431	\$0.02442	\$0.00086	\$0.00083	\$0.02338	\$0.02421			
27												
28	Per kWh- All kWh											
29	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
30	Rate Case expense			Distribution		\$0.00042						
31	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
32	Transmission Charge	\$0.01672		Other Delivery		\$0.01672						
33	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
34	Stranded Cost Recovery	\$0.00151		Other Delivery		\$0.00151						
35	REP	(\$0.00037)		Distribution		(\$0.00037)						
36	Default Service Reclass	<u>(0.00008)</u>		Distribution		<u>(0.00008)</u>						
37		<u>\$0.02386</u>				<u>\$0.02335</u>						
38	Commodity, Default Service	\$0.07525				\$0.07525						

Bill_G1_R Granite State Electric Company
Sch. 21C Revenue Allocation and Rates
vFINAL Bill Impacts- Rate G1

Line	Load Factor	Demand	Current Rates				Proposed Rates				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	25%	150	\$725	\$701	\$1,819	\$3,245	\$1,502	\$676	\$1,819	\$3,996	\$751	52.6%	23.1%
2	25%	200	\$936	\$935	\$2,425	\$4,296	\$1,902	\$901	\$2,425	\$5,228	\$932	49.8%	21.7%
3	25%	400	\$1,779	\$1,870	\$4,849	\$8,498	\$3,504	\$1,802	\$4,849	\$10,156	\$1,658	45.4%	19.5%
4	25%	550	\$2,411	\$2,572	\$6,668	\$11,650	\$4,706	\$2,478	\$6,668	\$13,852	\$2,202	44.2%	18.9%
5	25%	700	\$3,043	\$3,273	\$8,486	\$14,802	\$5,907	\$3,154	\$8,486	\$17,548	\$2,746	43.5%	18.6%
6	25%	1000	\$4,307	\$4,676	\$12,123	\$21,106	\$8,311	\$4,506	\$12,123	\$24,940	\$3,834	42.7%	18.2%
7	25%	2500	\$10,627	\$11,689	\$30,309	\$52,624	\$20,327	\$11,265	\$30,309	\$61,900	\$9,276	41.6%	17.6%
8													
9	35%	200	\$948	\$1,309	\$3,395	\$5,651	\$1,973	\$1,262	\$3,395	\$6,630	\$978	43.4%	17.3%
10	35%	250	\$1,161	\$1,636	\$4,243	\$7,041	\$2,392	\$1,577	\$4,243	\$8,212	\$1,171	41.9%	16.6%
11	35%	400	\$1,802	\$2,618	\$6,789	\$11,209	\$3,647	\$2,523	\$6,789	\$12,959	\$1,750	39.6%	15.6%
12	35%	550	\$2,442	\$3,600	\$9,335	\$15,378	\$4,902	\$3,470	\$9,335	\$17,706	\$2,329	38.5%	15.1%
13	35%	700	\$3,083	\$4,582	\$11,881	\$19,546	\$6,157	\$4,416	\$11,881	\$22,454	\$2,908	37.9%	14.9%
14	35%	1000	\$4,364	\$6,546	\$16,973	\$27,883	\$8,667	\$6,308	\$16,973	\$31,948	\$4,065	37.3%	14.6%
15	35%	2500	\$10,770	\$16,365	\$42,432	\$69,567	\$21,217	\$15,771	\$42,432	\$79,420	\$9,853	36.3%	14.2%
16													
17	50%	200	\$965	\$1,870	\$4,849	\$7,684	\$2,080	\$1,802	\$4,849	\$8,732	\$1,048	37.0%	13.6%
18	50%	250	\$1,183	\$2,338	\$6,062	\$9,582	\$2,525	\$2,253	\$6,062	\$10,840	\$1,258	35.7%	13.1%
19	50%	300	\$1,400	\$2,805	\$7,274	\$11,480	\$2,970	\$2,704	\$7,274	\$12,948	\$1,468	34.9%	12.8%
20	50%	400	\$1,836	\$3,741	\$9,699	\$15,275	\$3,861	\$3,605	\$9,699	\$17,164	\$1,889	33.9%	12.4%
21	50%	550	\$2,490	\$5,143	\$13,336	\$20,969	\$5,196	\$4,957	\$13,336	\$23,488	\$2,519	33.0%	12.0%
22	50%	1000	\$4,450	\$9,351	\$24,247	\$38,048	\$9,201	\$9,012	\$24,247	\$42,460	\$4,412	32.0%	11.6%
23	50%	2500	\$10,985	\$23,378	\$60,617	\$94,981	\$22,553	\$22,530	\$60,617	\$105,700	\$10,720	31.2%	11.3%
24													
25	60%	200	\$976	\$2,244	\$5,819	\$9,040	\$2,152	\$2,163	\$5,819	\$10,134	\$1,094	34.0%	12.1%
26	60%	300	\$1,418	\$3,366	\$8,729	\$13,513	\$3,077	\$3,244	\$8,729	\$15,050	\$1,538	32.1%	11.4%
27	60%	400	\$1,859	\$4,489	\$11,639	\$17,986	\$4,003	\$4,326	\$11,639	\$19,967	\$1,981	31.2%	11.0%
28	60%	550	\$2,521	\$6,172	\$16,003	\$24,696	\$5,392	\$5,948	\$16,003	\$27,342	\$2,647	30.4%	10.7%
29	60%	700	\$3,183	\$7,855	\$20,367	\$31,406	\$6,780	\$7,570	\$20,367	\$34,718	\$3,312	30.0%	10.5%
30	60%	1000	\$4,507	\$11,222	\$29,096	\$44,825	\$9,558	\$10,814	\$29,096	\$49,468	\$4,643	29.5%	10.4%
31	60%	2500	\$11,128	\$28,054	\$72,741	\$111,923	\$23,444	\$27,036	\$72,741	\$123,220	\$11,297	28.8%	10.1%

Bill_G1_R Granite State Electric Company
Sch. 21C Revenue Allocation and Rates
vFINAL Bill Impacts- Rate G1

Line	Load Factor	Demand	Current Rates				Proposed Rates				Increase			
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %	
32														
33	75%	200	\$993	\$2,805	\$7,274	\$11,073	\$2,258	\$2,704	\$7,274	\$12,236	\$1,163	30.6%	10.5%	
34	75%	300	\$1,443	\$4,208	\$10,911	\$16,563	\$3,238	\$4,055	\$10,911	\$18,204	\$1,641	29.0%	9.9%	
35	75%	400	\$1,893	\$5,611	\$14,548	\$22,052	\$4,217	\$5,407	\$14,548	\$24,172	\$2,120	28.2%	9.6%	
36	75%	550	\$2,568	\$7,715	\$20,004	\$30,287	\$5,686	\$7,435	\$20,004	\$33,124	\$2,837	27.6%	9.4%	
37	75%	700	\$3,243	\$9,819	\$25,459	\$38,522	\$7,154	\$9,462	\$25,459	\$42,076	\$3,555	27.2%	9.2%	
38	75%	1000	\$4,593	\$14,027	\$36,370	\$54,991	\$10,092	\$13,518	\$36,370	\$59,980	\$4,989	26.8%	9.1%	
39	75%	2500	\$11,343	\$35,067	\$90,926	\$137,337	\$24,780	\$33,794	\$90,926	\$149,500	\$12,164	26.2%	8.9%	
40														
41	Rates													
42	Distribution Charges			Tariff	Other Deliv	Total		Tariff	Other Deliv	Total				
43	Customer Charge		\$93.37				\$300.00							
44	On-Peak kWh		\$0.00189	\$0.00152	\$0.02562	\$0.02714	\$0.00973	\$0.00978	\$0.02469	\$0.03447				
45	Off-Peak kWh		\$0.00056	\$0.00019	\$0.02562	\$0.02581	\$0.00086	\$0.00091	\$0.02469	\$0.02560				
46	Demand Charge		\$4.07				\$7.12							
47														
48														
49	Per kWh- All kWh													
50	Storm Recovery		\$0.00223				\$0.00130							
51	Rate Case expense						\$0.00042							
52	Electricity Consumption Tax		\$0.00055				\$0.00055							
53	Transmission Charge		\$0.01804				\$0.01804							
54	System Benefits Charge		\$0.00330				\$0.00330							
55	Stranded Cost Recovery		\$0.00150				\$0.00150							
56	REP		(\$0.00037)				(\$0.00037)							
57	Default Service Reclass		0.00000				0.00000							
58			<u>\$0.02525</u>				<u>\$0.02474</u>							
59	Commodity, Default Service		\$0.06643				\$0.06643							
60														
61														

Bill_G1_H Granite State Electric Company
Sch. 21D Revenue Allocation and Rates
vFINAL Bill Impacts- Rate G1 with HVM / HVD

Line	Load Factor	Demand	Current Rates				Proposed Rates				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
1	25%	150	\$681	\$694	\$1,819	\$3,194	\$1,417	\$681	\$1,819	\$3,916	\$722	52.5%	22.6%
2	25%	200	\$877	\$926	\$2,425	\$4,228	\$1,790	\$907	\$2,425	\$5,122	\$894	49.6%	21.2%
3	25%	400	\$1,662	\$1,852	\$4,849	\$8,363	\$3,283	\$1,815	\$4,849	\$9,947	\$1,584	45.1%	18.9%
4	25%	550	\$2,250	\$2,546	\$6,668	\$11,464	\$4,403	\$2,495	\$6,668	\$13,566	\$2,102	43.8%	18.3%
5	25%	700	\$2,839	\$3,240	\$8,486	\$14,566	\$5,522	\$3,176	\$8,486	\$17,185	\$2,619	43.1%	18.0%
6	25%	1000	\$4,016	\$4,629	\$12,123	\$20,768	\$7,762	\$4,537	\$12,123	\$24,422	\$3,654	42.3%	17.6%
7	25%	2500	\$9,902	\$11,572	\$30,309	\$51,783	\$18,959	\$11,342	\$30,309	\$60,610	\$8,827	41.1%	17.0%
8													
9	35%	200	\$889	\$1,296	\$3,395	\$5,579	\$1,854	\$1,270	\$3,395	\$6,519	\$940	43.0%	16.9%
10	35%	250	\$1,088	\$1,620	\$4,243	\$6,951	\$2,244	\$1,588	\$4,243	\$8,075	\$1,124	41.5%	16.2%
11	35%	400	\$1,685	\$2,592	\$6,789	\$11,066	\$3,412	\$2,541	\$6,789	\$12,742	\$1,676	39.2%	15.1%
12	35%	550	\$2,282	\$3,564	\$9,335	\$15,181	\$4,580	\$3,493	\$9,335	\$17,408	\$2,227	38.1%	14.7%
13	35%	700	\$2,879	\$4,536	\$11,881	\$19,296	\$5,748	\$4,446	\$11,881	\$22,075	\$2,779	37.5%	14.4%
14	35%	1000	\$4,073	\$6,480	\$16,973	\$27,526	\$8,084	\$6,351	\$16,973	\$31,409	\$3,882	36.8%	14.1%
15	35%	2500	\$10,044	\$16,201	\$42,432	\$68,677	\$19,765	\$15,879	\$42,432	\$78,076	\$9,399	35.8%	13.7%
16													
17	45%	200	\$900	\$1,666	\$4,364	\$6,931	\$1,919	\$1,633	\$4,364	\$7,917	\$986	38.4%	14.2%
18	45%	250	\$1,102	\$2,083	\$5,456	\$8,640	\$2,324	\$2,042	\$5,456	\$9,822	\$1,181	37.1%	13.7%
19	45%	300	\$1,304	\$2,500	\$6,547	\$10,350	\$2,730	\$2,450	\$6,547	\$11,726	\$1,377	36.2%	13.3%
20	45%	400	\$1,707	\$3,333	\$8,729	\$13,769	\$3,541	\$3,266	\$8,729	\$15,536	\$1,767	35.1%	12.8%
21	45%	550	\$2,313	\$4,583	\$12,002	\$18,898	\$4,757	\$4,491	\$12,002	\$21,251	\$2,353	34.1%	12.5%
22	45%	1000	\$4,130	\$8,332	\$21,822	\$34,284	\$8,407	\$8,166	\$21,822	\$38,395	\$4,111	33.0%	12.0%
23	45%	2500	\$10,185	\$20,830	\$54,556	\$85,571	\$20,571	\$20,415	\$54,556	\$95,542	\$9,971	32.1%	11.7%
24													
25	60%	200	\$917	\$2,222	\$5,819	\$8,958	\$2,016	\$2,178	\$5,819	\$10,013	\$1,055	33.6%	11.8%
26	60%	300	\$1,329	\$3,333	\$8,729	\$13,391	\$2,875	\$3,266	\$8,729	\$14,870	\$1,479	31.7%	11.0%
27	60%	400	\$1,741	\$4,444	\$11,639	\$17,824	\$3,734	\$4,355	\$11,639	\$19,728	\$1,904	30.8%	10.7%
28	60%	550	\$2,360	\$6,110	\$16,003	\$24,473	\$5,023	\$5,989	\$16,003	\$27,015	\$2,542	30.0%	10.4%
29	60%	700	\$2,978	\$7,777	\$20,367	\$31,122	\$6,312	\$7,622	\$20,367	\$34,301	\$3,179	29.6%	10.2%
30	60%	1000	\$4,215	\$11,109	\$29,096	\$44,420	\$8,890	\$10,888	\$29,096	\$48,875	\$4,454	29.1%	10.0%
31	60%	2500	\$10,398	\$27,773	\$72,741	\$110,912	\$21,780	\$27,220	\$72,741	\$121,741	\$10,829	28.4%	9.8%

Bill_G1_H Granite State Electric Company
Sch. 21D Revenue Allocation and Rates
vFINAL Bill Impacts- Rate G1 with HVM / HVD

Line	Load Factor	Demand	Current Rates				Proposed Rates				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
32													
33	75%	200	\$934	\$2,777	\$7,274	\$10,985	\$2,112	\$2,722	\$7,274	\$12,108	\$1,123	30.3%	10.2%
34	75%	300	\$1,355	\$4,166	\$10,911	\$16,432	\$3,020	\$4,083	\$10,911	\$18,014	\$1,582	28.7%	9.6%
35	75%	400	\$1,775	\$5,555	\$14,548	\$21,878	\$3,928	\$5,444	\$14,548	\$23,920	\$2,042	27.9%	9.3%
36	75%	550	\$2,407	\$7,638	\$20,004	\$30,048	\$5,289	\$7,486	\$20,004	\$32,779	\$2,731	27.2%	9.1%
37	75%	700	\$3,038	\$9,721	\$25,459	\$38,218	\$6,651	\$9,527	\$25,459	\$41,637	\$3,420	26.8%	8.9%
38	75%	1000	\$4,300	\$13,887	\$36,370	\$54,557	\$9,374	\$13,610	\$36,370	\$59,354	\$4,797	26.4%	8.8%
39	75%	2500	\$10,611	\$34,717	\$90,926	\$136,254	\$22,989	\$34,026	\$90,926	\$147,940	\$11,687	25.8%	8.6%
40													
41	Rates												
42	Distribution Charges			Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
43	Customer Charge		\$93.37				\$300.00						
44	On-Peak kWh		\$0.00189	\$0.00152	\$0.02562	\$0.02714	\$0.00973	\$0.00936	\$0.02511	\$0.03447			
45	Off-Peak kWh		\$0.00056	\$0.00019	\$0.02562	\$0.02581	\$0.00086	\$0.00049	\$0.02511	\$0.02560			
46	Demand Charge net of		(\$0.25)	\$3.82		(\$0.39)	\$6.73						
47	HVM Discount		(1.0%)	99.0%		(1.0%)	99.0%						
48													
49	Per kWh- All kWh												
50	Storm Recovery		\$0.00223				\$0.00130						
51	Rate Case expense		\$0.00000				\$0.00042						
52	Electricity Consumption Tax		\$0.00055				\$0.00055						
53	Transmission Charge		\$0.01804				\$0.01804						
54	System Benefits Charge		\$0.00330				\$0.00330						
55	Stranded Cost Recovery		\$0.00150				\$0.00150						
56	REP		(\$0.00037)				(\$0.00037)						
57	Default Service Reclass		\$0.00000				\$0.00000						
58			<u>\$0.02525</u>				<u>\$0.02474</u>						
59	Commodity, Default Service		\$0.06643				\$0.06643						
60													

Bill_G2_R Granite State Electric Company
Sch. 21E Revenue Allocation and Rates
vFINAL Bill Impacts- Rate G2

Line	Load Factor	Demand	Current Rates				Proposed Rates				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
1	25%	20	\$116.57	\$100.23	\$242.47	\$459.27	\$203.67	\$96.83	\$242.47	\$542.98	\$83.71	38.6%	18.2%
2	25%	30	\$162.36	\$150.34	\$363.70	\$676.41	\$280.51	\$145.25	\$363.70	\$789.47	\$113.06	36.2%	16.7%
3	25%	50	\$253.95	\$250.57	\$606.17	\$1,110.70	\$434.19	\$242.09	\$606.17	\$1,282.45	\$171.75	34.0%	15.5%
4	25%	75	\$368.44	\$375.86	\$909.26	\$1,653.56	\$626.28	\$363.13	\$909.26	\$1,898.67	\$245.11	32.9%	14.8%
5	25%	100	\$482.92	\$501.15	\$1,212.35	\$2,196.42	\$818.37	\$484.17	\$1,212.35	\$2,514.89	\$318.48	32.4%	14.5%
6	25%	200	\$940.87	\$1,002.29	\$2,424.70	\$4,367.85	\$1,586.74	\$968.35	\$2,424.70	\$4,979.78	\$611.93	31.5%	14.0%
7													
8	30%	20	\$116.93	\$120.27	\$290.96	\$528.16	\$205.69	\$116.20	\$290.96	\$612.85	\$84.69	35.7%	16.0%
9	30%	30	\$162.90	\$180.41	\$436.45	\$779.76	\$283.53	\$174.30	\$436.45	\$894.28	\$114.52	33.4%	14.7%
10	30%	50	\$254.85	\$300.69	\$727.41	\$1,282.94	\$439.22	\$290.50	\$727.41	\$1,457.13	\$174.19	31.4%	13.6%
11	30%	75	\$369.78	\$451.03	\$1,091.11	\$1,911.92	\$633.83	\$435.76	\$1,091.11	\$2,160.70	\$248.78	30.3%	13.0%
12	30%	100	\$484.71	\$601.37	\$1,454.82	\$2,540.90	\$828.44	\$581.01	\$1,454.82	\$2,864.27	\$323.37	29.8%	12.7%
13	30%	200	\$944.44	\$1,202.75	\$2,909.63	\$5,056.82	\$1,606.89	\$1,162.01	\$2,909.63	\$5,678.54	\$621.71	29.0%	12.3%
14													
15	40%	20	\$117.64	\$160.37	\$387.95	\$665.96	\$209.72	\$154.94	\$387.95	\$752.60	\$86.65	31.2%	13.0%
16	40%	30	\$163.97	\$240.55	\$581.93	\$986.45	\$289.58	\$232.40	\$581.93	\$1,103.91	\$117.46	29.0%	11.9%
17	40%	50	\$256.63	\$400.92	\$969.88	\$1,627.43	\$449.30	\$387.34	\$969.88	\$1,806.51	\$179.08	27.2%	11.0%
18	40%	75	\$372.46	\$601.37	\$1,454.82	\$2,428.65	\$648.94	\$581.01	\$1,454.82	\$2,684.77	\$256.12	26.3%	10.5%
19	40%	100	\$488.29	\$801.83	\$1,939.76	\$3,229.88	\$848.59	\$774.68	\$1,939.76	\$3,563.02	\$333.15	25.8%	10.3%
20	40%	200	\$951.60	\$1,603.66	\$3,879.51	\$6,434.77	\$1,647.18	\$1,549.35	\$3,879.51	\$7,076.05	\$641.28	25.1%	10.0%
21													
22	50%	20	\$118.36	\$200.46	\$484.94	\$803.75	\$213.75	\$193.67	\$484.94	\$892.36	\$88.60	27.8%	11.0%
23	50%	30	\$165.05	\$300.69	\$727.41	\$1,193.14	\$295.62	\$290.50	\$727.41	\$1,313.53	\$120.39	25.9%	10.1%
24	50%	50	\$258.42	\$501.15	\$1,212.35	\$1,971.92	\$459.37	\$484.17	\$1,212.35	\$2,155.89	\$183.98	24.2%	9.3%
25	50%	75	\$375.14	\$751.72	\$1,818.52	\$2,945.38	\$664.06	\$726.26	\$1,818.52	\$3,208.84	\$263.45	23.4%	8.9%
26	50%	100	\$491.87	\$1,002.29	\$2,424.70	\$3,918.85	\$868.74	\$968.35	\$2,424.70	\$4,261.78	\$342.93	23.0%	8.8%
27	50%	200	\$958.75	\$2,004.58	\$4,849.39	\$7,812.72	\$1,687.48	\$1,936.69	\$4,849.39	\$8,473.56	\$660.84	22.3%	8.5%

Bill_G2_R Granite State Electric Company
Sch. 21E Revenue Allocation and Rates
vFINAL Bill Impacts- Rate G2

Line	Load Factor	Demand	Current Rates				Proposed Rates				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
28													
29	65%	20	\$119.43	\$260.60	\$630.42	\$1,010.45	\$219.79	\$251.77	\$630.42	\$1,101.98	\$91.54	24.1%	9.1%
30	65%	30	\$166.66	\$390.89	\$945.63	\$1,503.18	\$304.69	\$377.65	\$945.63	\$1,627.97	\$124.79	22.4%	8.3%
31	65%	50	\$261.11	\$651.49	\$1,576.05	\$2,488.65	\$474.48	\$629.42	\$1,576.05	\$2,679.96	\$191.31	21.0%	7.7%
32	65%	75	\$379.17	\$977.23	\$2,364.08	\$3,720.48	\$686.72	\$944.14	\$2,364.08	\$3,994.94	\$274.46	20.2%	7.4%
33	65%	100	\$497.23	\$1,302.98	\$3,152.10	\$4,952.31	\$898.96	\$1,258.85	\$3,152.10	\$5,309.91	\$357.60	19.9%	7.2%
34	65%	200	\$969.48	\$2,605.95	\$6,304.21	\$9,879.64	\$1,747.92	\$2,517.70	\$6,304.21	\$10,569.83	\$690.19	19.3%	7.0%
35													
36	Rates												
37	Distribution Charges			Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
38		Customer Charge	\$24.98				\$50.00						
39		All kWh	\$0.00086	\$0.00049	\$0.02746	\$0.02795	\$0.00271	\$0.00276	\$0.02653	\$0.02929			
40		Demand Charge	\$4.49				\$7.18						
41													
42	Per kWh- All kWh												
43		Storm Recovery	\$0.00223				\$0.00130						
44		Rate Case expense					\$0.00042						
45		Electricity Consumption Tax	\$0.00055				\$0.00055						
46		Transmission Charge	\$0.01988				\$0.01988						
47		System Benefits Charge	\$0.00330				\$0.00330						
48		Stranded Cost Recovery	\$0.00150				\$0.00150						
49		REP	(\$0.00037)				(\$0.00037)						
50		Default Service Reclass	0.00000				0.00000						
51			<u>\$0.02709</u>				<u>\$0.02658</u>						
52		Commodity, Default Service	\$0.06643				\$0.06643						
53													

Line	Monthly Usage- kWh	Current Rates				Proposed Rates				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$5.52	\$0.00	\$0.00	\$5.52	\$11.00	\$0.00	\$0.00	\$11.00	\$5.48	99.3%	99.3%
2	100	\$8.61	\$2.73	\$7.53	\$18.86	\$15.03	\$2.64	\$7.53	\$25.19	\$6.33	55.8%	33.5%
3	250	\$13.25	\$6.82	\$18.81	\$38.88	\$21.08	\$6.59	\$18.81	\$46.48	\$7.60	37.9%	19.5%
4	500	\$20.97	\$13.65	\$37.63	\$72.24	\$31.16	\$13.18	\$37.63	\$81.96	\$9.72	28.1%	13.5%
5	750	\$28.70	\$20.47	\$56.44	\$105.60	\$41.23	\$19.77	\$56.44	\$117.44	\$11.84	24.1%	11.2%
6	1000	\$36.42	\$27.29	\$75.25	\$138.96	\$51.31	\$26.36	\$75.25	\$152.92	\$13.96	21.9%	10.0%
7	1250	\$44.15	\$34.11	\$94.06	\$172.32	\$61.39	\$32.95	\$94.06	\$188.40	\$16.08	20.5%	9.3%
8	1500	\$51.87	\$40.94	\$112.88	\$205.68	\$71.47	\$39.54	\$112.88	\$223.88	\$18.20	19.6%	8.8%
9	1750	\$59.60	\$47.76	\$131.69	\$239.04	\$81.54	\$46.13	\$131.69	\$259.36	\$20.32	18.9%	8.5%
10	2000	\$67.32	\$54.58	\$150.50	\$272.40	\$91.62	\$52.72	\$150.50	\$294.84	\$22.44	18.4%	8.2%
11	2500	\$82.77	\$68.23	\$188.13	\$339.12	\$111.78	\$65.90	\$188.13	\$365.80	\$26.68	17.7%	7.9%
12	3000	\$98.22	\$81.87	\$225.75	\$405.84	\$131.93	\$79.08	\$225.75	\$436.76	\$30.92	17.2%	7.6%
13	4000	\$129.12	\$109.16	\$301.00	\$539.28	\$172.24	\$105.44	\$301.00	\$578.68	\$39.40	16.5%	7.3%
14	5000	\$160.02	\$136.45	\$376.25	\$672.72	\$212.55	\$131.80	\$376.25	\$720.60	\$47.88	16.2%	7.1%
15	6000	\$190.92	\$163.74	\$451.50	\$806.16	\$252.86	\$158.16	\$451.50	\$862.52	\$56.36	15.9%	7.0%
16	7500	\$237.27	\$204.68	\$564.38	\$1,006.32	\$313.33	\$197.70	\$564.38	\$1,075.40	\$69.08	15.6%	6.9%
17												
18	Rates											
19	<u>Distribution Charges</u>											
20	Customer Charge	\$5.52				\$11.00						
21	All kWh	\$0.03144	\$0.03090	\$0.02729	\$0.05819	\$0.04043	\$0.04031	\$0.02636	\$0.06667			
22												
23	<u>Per kWh- All kWh</u>											
24	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
25	Rate Case expense			Distribution		\$0.00042						
26	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
27	Transmission Charge	\$0.01971		Other Delivery		\$0.01971						
28	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
29	Stranded Cost Recovery	\$0.00150		Other Delivery		\$0.00150						
30	REP	(\$0.00037)		Distribution		(\$0.00037)						
31	Default Service Reclass	(0.00017)		Distribution		(0.00017)						
32		<u>\$0.02675</u>				<u>\$0.02624</u>						
33	Commodity, Default Service	\$0.07525				\$0.07525						

Bill_T_R Granite State Electric Company
Sch. 21G Revenue Allocation and Rates
vFINAL Bill Impacts- Rate T

Line	Monthly Usage- kWh	Current Rates				Proposed Rates				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$5.64	\$0.00	\$0.00	\$5.64	\$11.00	\$0.00	\$0.00	\$11.00	\$5.36	95.0%	95.0%
2	5	\$5.74	\$0.12	\$0.38	\$6.24	\$11.20	\$0.12	\$0.38	\$11.69	\$5.45	93.0%	87.4%
3	10	\$5.84	\$0.24	\$0.75	\$6.84	\$11.40	\$0.23	\$0.75	\$12.38	\$5.55	91.2%	81.1%
4	25	\$6.15	\$0.60	\$1.88	\$8.63	\$12.00	\$0.58	\$1.88	\$14.46	\$5.83	86.4%	67.5%
5	50	\$6.65	\$1.21	\$3.76	\$11.62	\$13.00	\$1.16	\$3.76	\$17.92	\$6.30	80.1%	54.2%
6	100	\$7.67	\$2.41	\$7.53	\$17.61	\$15.00	\$2.32	\$7.53	\$24.84	\$7.24	71.8%	41.1%
7	200	\$9.70	\$4.82	\$15.05	\$29.57	\$18.99	\$4.64	\$15.05	\$38.68	\$9.11	62.7%	30.8%
8	300	\$11.73	\$7.23	\$22.58	\$41.54	\$22.99	\$6.95	\$22.58	\$52.52	\$10.99	57.9%	26.4%
9	400	\$13.76	\$9.64	\$30.10	\$53.50	\$26.99	\$9.27	\$30.10	\$66.36	\$12.86	55.0%	24.0%
10	500	\$15.79	\$12.06	\$37.63	\$65.47	\$30.99	\$11.59	\$37.63	\$80.20	\$14.74	52.9%	22.5%
11	600	\$17.81	\$14.47	\$45.15	\$77.43	\$34.98	\$13.91	\$45.15	\$94.04	\$16.61	51.5%	21.5%
12	700	\$19.84	\$16.88	\$52.68	\$89.40	\$38.98	\$16.23	\$52.68	\$107.88	\$18.49	50.3%	20.7%
13	800	\$21.87	\$19.29	\$60.20	\$101.36	\$42.98	\$18.54	\$60.20	\$121.72	\$20.36	49.5%	20.1%
14	900	\$23.90	\$21.70	\$67.73	\$113.33	\$46.97	\$20.86	\$67.73	\$135.56	\$22.24	48.8%	19.6%
15	1000	\$25.93	\$24.11	\$75.25	\$125.29	\$50.97	\$23.18	\$75.25	\$149.40	\$24.11	48.2%	19.2%
16	1500	\$36.08	\$36.17	\$112.88	\$185.12	\$70.96	\$34.77	\$112.88	\$218.60	\$33.49	46.4%	18.1%
17	2000	\$46.22	\$48.22	\$150.50	\$244.94	\$90.94	\$46.36	\$150.50	\$287.80	\$42.86	45.4%	17.5%
18	3000	\$66.51	\$72.33	\$225.75	\$364.59	\$130.91	\$69.54	\$225.75	\$426.20	\$61.61	44.4%	16.9%
19	4000	\$86.80	\$96.44	\$301.00	\$484.24	\$170.88	\$92.72	\$301.00	\$564.60	\$80.36	43.9%	16.6%
20	5000	\$107.09	\$120.55	\$376.25	\$603.89	\$210.85	\$115.90	\$376.25	\$703.00	\$99.11	43.5%	16.4%
21												

Bill_T_R Granite State Electric Company
Sch. 21G Revenue Allocation and Rates
vFINAL Bill Impacts- Rate T

Line	Monthly Usage- kWh	Current Rates			Proposed Rates			Increase				
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
22	Rates											
23	Distribution Charges		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
24	Customer Charge	\$5.64				\$11.00						
25	All kWh	\$0.02073	\$0.02029	\$0.02411	\$0.04440	\$0.03999	\$0.03997	\$0.02318	\$0.06315			
26												
27	Per kWh- All kWh											
28	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
29	Rate Case expense			Distribution		\$0.00042						
30	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
31	Transmission Charge	\$0.01653		Other Delivery		\$0.01653						
32	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
33	Stranded Cost Recovery	\$0.00150		Other Delivery		\$0.00150						
34	REP	(\$0.00037)		Distribution		(\$0.00037)						
35	Default Service Reclass	(\$0.00007)		Distribution		(\$0.00007)						
36		<u>\$0.02367</u>				<u>\$0.02316</u>						
37	Commodity, Default Service	\$0.07525				\$0.07525						

Line	Monthly Usage- kWh	Current Rates				Proposed Rates				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$5.89	\$0.00	\$0.00	\$5.89	\$8.12	\$0.00	\$0.00	\$8.12	\$2.23	37.9%	37.9%
2	5	\$5.89	\$0.14	\$0.38	\$6.41	\$8.12	\$0.14	\$0.38	\$8.63	\$2.23	36.9%	34.7%
3	10	\$5.89	\$0.29	\$0.75	\$6.93	\$8.12	\$0.28	\$0.75	\$9.15	\$2.22	36.0%	32.1%
4	25	\$5.89	\$0.71	\$1.88	\$8.48	\$8.12	\$0.69	\$1.88	\$10.69	\$2.21	33.4%	26.0%
5	50	\$5.89	\$1.43	\$3.76	\$11.08	\$8.12	\$1.38	\$3.76	\$13.26	\$2.18	29.8%	19.7%
6	100	\$5.89	\$2.85	\$7.53	\$16.27	\$8.12	\$2.76	\$7.53	\$18.41	\$2.14	24.4%	13.1%
7	200	\$5.89	\$5.71	\$15.05	\$26.65	\$8.23	\$5.52	\$15.05	\$28.80	\$2.15	18.6%	8.1%
8	300	\$8.58	\$8.56	\$22.58	\$39.71	\$12.34	\$8.28	\$22.58	\$43.20	\$3.49	20.3%	8.8%
9	400	\$11.44	\$11.42	\$30.10	\$52.95	\$16.46	\$11.04	\$30.10	\$57.60	\$4.65	20.3%	8.8%
10	500	\$14.30	\$14.27	\$37.63	\$66.19	\$20.57	\$13.81	\$37.63	\$72.00	\$5.81	20.3%	8.8%
11	600	\$17.15	\$17.12	\$45.15	\$79.43	\$24.68	\$16.57	\$45.15	\$86.40	\$6.97	20.3%	8.8%
12	700	\$20.01	\$19.98	\$52.68	\$92.67	\$28.80	\$19.33	\$52.68	\$100.80	\$8.13	20.3%	8.8%
13	800	\$22.87	\$22.83	\$60.20	\$105.90	\$32.91	\$22.09	\$60.20	\$115.20	\$9.30	20.3%	8.8%
14	900	\$25.73	\$25.69	\$67.73	\$119.14	\$37.03	\$24.85	\$67.73	\$129.60	\$10.46	20.3%	8.8%
15	1000	\$28.59	\$28.54	\$75.25	\$132.38	\$41.14	\$27.61	\$75.25	\$144.00	\$11.62	20.3%	8.8%
16	1500	\$42.89	\$42.81	\$112.88	\$198.57	\$61.71	\$41.42	\$112.88	\$216.00	\$17.43	20.3%	8.8%
17	2000	\$57.18	\$57.08	\$150.50	\$264.76	\$82.28	\$55.22	\$150.50	\$288.00	\$23.24	20.3%	8.8%
18	3000	\$85.77	\$85.62	\$225.75	\$397.14	\$123.42	\$82.83	\$225.75	\$432.00	\$34.86	20.3%	8.8%
19	4000	\$114.36	\$114.16	\$301.00	\$529.52	\$164.56	\$110.44	\$301.00	\$576.00	\$46.48	20.3%	8.8%
20	5000	\$142.95	\$142.70	\$376.25	\$661.90	\$205.70	\$138.05	\$376.25	\$720.00	\$58.10	20.3%	8.8%
21												

Line	Monthly Usage- kWh	Current Rates			Proposed Rates			Increase				
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
22	Rates											
23	<u>Distribution Charges</u>		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
24	Customer Charge	\$0.00				\$0.00						
25	All kWh	\$0.02905	\$0.02859	\$0.02854	\$0.05713	\$0.04118	\$0.04114	\$0.02761	\$0.06875			
26	Minimum Charge	\$5.89				\$8.12						
27												
28	<u>Per kWh- All kWh</u>											
29	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
30	Rate Case expense			Distribution		\$0.00042						
31	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
32	Transmission Charge	\$0.02094		Other Delivery		\$0.02094						
33	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
34	Stranded Cost Recovery	\$0.00152		Other Delivery		\$0.00152						
35	REP	(\$0.00037)		Distribution		(\$0.00037)						
36	Default Service Reclass	(0.00009)		Distribution		(0.00009)						
37		<u>\$0.02808</u>				<u>\$0.02757</u>						
38	Commodity, Default Service	\$0.07525				\$0.07525						

	kWh / Yr	Current Rates					Proposed Rates					Increase			
		Annual Fixture Charge	Other Distribution Charges	Other Delivery Charges	Commodity	Total Bill	Annual Fixture Charge	Other Distribution Charges	Other Delivery Charges	Commodity	Total Bill	Distribution \$	Distribution %	Total Bill %	
1	Outdoor Lighting														
2	Sodium 50W	252	\$50.83	\$0.05	\$4.18	\$7.56	\$62.61	\$80.66	\$0.16	\$3.94	\$7.56	\$92.32	\$29.94	58.8%	47.8%
3	Sodium 100W	492	\$61.62	\$0.09	\$8.15	\$14.76	\$84.63	\$97.78	\$0.31	\$7.69	\$14.76	\$120.54	\$36.37	58.9%	43.0%
4	Sodium 250W	1,284	\$108.20	\$0.24	\$21.28	\$38.52	\$168.24	\$171.69	\$0.80	\$20.08	\$38.52	\$231.09	\$64.04	59.1%	38.1%
5	Sodium 400W	1,968	\$140.99	\$0.37	\$32.61	\$59.04	\$233.01	\$223.73	\$1.22	\$30.78	\$59.04	\$314.77	\$83.59	59.1%	35.9%
6	Sodium 100W Post	492	\$70.97	\$0.09	\$8.15	\$14.76	\$93.98	\$112.62	\$0.31	\$7.69	\$14.76	\$135.38	\$41.86	58.9%	44.5%
7	Sodium 250W Flood	1,284	\$109.17	\$0.24	\$21.28	\$38.52	\$169.21	\$173.23	\$0.80	\$20.08	\$38.52	\$232.63	\$64.61	59.1%	38.2%
8	Sodium 400W Flood	1,944	\$150.70	\$0.37	\$32.21	\$58.32	\$241.60	\$239.14	\$1.21	\$30.40	\$58.32	\$329.07	\$89.28	59.1%	37.0%
9	Incandescent 103W	444	\$67.85	\$0.08	\$7.36	\$13.32	\$88.61	\$107.67	\$0.28	\$6.94	\$13.32	\$128.21	\$40.01	58.9%	45.2%
10	Mercury 100W	564	\$49.11	\$0.11	\$9.35	\$16.92	\$75.48	\$77.93	\$0.35	\$8.82	\$16.92	\$104.02	\$29.06	59.0%	38.5%
11	Mercury 175W	912	\$59.71	\$0.17	\$15.11	\$27.36	\$102.36	\$94.75	\$0.57	\$14.26	\$27.36	\$136.94	\$35.43	59.2%	34.6%
12	Mercury 400W	1,896	\$112.94	\$0.36	\$31.42	\$56.88	\$201.60	\$179.22	\$1.18	\$29.65	\$56.88	\$266.93	\$67.10	59.2%	33.3%
13	Mercury 1000W	4,572	\$214.28	\$0.87	\$75.76	\$137.16	\$428.07	\$340.03	\$2.83	\$71.51	\$137.16	\$551.53	\$127.72	59.4%	29.8%
14	Mercury 400W Flood	1,896	\$124.90	\$0.36	\$31.42	\$56.88	\$213.56	\$198.19	\$1.18	\$29.65	\$56.88	\$285.90	\$74.11	59.2%	34.7%
15	Mercury 1000W Flood	4,572	\$215.68	\$0.87	\$75.76	\$137.16	\$429.47	\$342.25	\$2.83	\$71.51	\$137.16	\$553.75	\$128.54	59.4%	29.9%
16	Poles		\$59.89				\$59.89	\$95.04				\$95.04	\$35.15	58.7%	58.7%
17	Service-Fiber Direct		\$62.02				\$62.02	\$98.42				\$98.42	\$36.40	58.7%	58.7%
18	Service-Fiber <25		\$105.19				\$105.19	\$166.92				\$166.92	\$61.73	58.7%	58.7%
19	Service-Fiber >25		\$175.74				\$175.74	\$278.87				\$278.87	\$103.13	58.7%	58.7%
20	Service-Metal Direct		\$125.43				\$125.43	\$199.04				\$199.04	\$73.61	58.7%	58.7%
21	Service-Metal >25		\$151.14				\$151.14	\$239.83				\$239.83	\$88.69	58.7%	58.7%
22															
23	Increase							58.7%							
24	Distributon Revenue		<u>573,702</u>					910,371							
25															
26				Tariff	Other Deliv	Total			Tariff	Other Deliv	Total				
27	Per kWh- All kWh			\$0.00056	#####	\$0.01657	\$0.01676	\$0.00057	\$0.00062	\$0.01564	\$0.01626				
28	Storm Recovery			\$0.00223	Other Delivery			\$0.00130							
29	Rate Case expense				Distribution			\$0.00042							
30	Electricity Consumption Tax			\$0.00055	Other Delivery			\$0.00055							
31	Transmission Charge			\$0.00900	Other Delivery			\$0.00900							
32	System Benefits Charge			\$0.00330	Other Delivery			\$0.00330							
33	Stranded Cost Recovery			\$0.00149	Other Delivery			\$0.00149							
34	REP			(\$0.00037)	Distribution			(\$0.00037)							
35	Default Service Reclass			<u>0.00000</u>	Distribution			<u>0.00000</u>							
36				<u>\$0.01620</u>				<u>\$0.01569</u>							
37	Commodity, Default Service (average)			\$0.03000				\$0.03000							

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**Granite State Electric Company
Attachment HSG-4
Permanent Rates with Step Adder**

Line	Schedule	Reference
1	Revenue Allocation and Bill Impacts for Permanent Rates with Step Adder	
2	Revenue at Proposed Permanent Rates with Step Adder	Sch. HSG- 22
3	Comparison of Rates- Current vs. Permanent with Step	Sch. HSG- 23
4	Bill Impacts for Permanent Rates with Step- Rate D	Sch. HSG- 23A
5	Bill Impacts for Permanent Rates with Step- Rate D10	Sch. HSG- 23B
6	Bill Impacts for Permanent Rates with Step- Rate G1	Sch. HSG- 23C
7	Bill Impacts for Permanent Rates with Step- Rate G1 with HVM / HVD	Sch. HSG- 23D
8	Bill Impacts for Permanent Rates with Step- Rate G2	Sch. HSG- 23E
9	Bill Impacts for Permanent Rates with Step- Rate G3	Sch. HSG- 23F
10	Bill Impacts for Permanent Rates with Step- Rate T	Sch. HSG- 23G
11	Bill Impacts for Permanent Rates with Step- Rate V	Sch. HSG- 23H
12	Bill Impacts for Permanent Rates with Step- Rate M	Sch. HSG- 23I
13		

Rates_S **Granite State Electric Company**
 Sch. 22 **Revenue Allocation and Rates**
 vFINAL **Revenue at Proposed Permanent Rates with Step Adder**
Step Adder= \$0.00135 per kWh

Granite State Electric Company
 Docket DE 13-063
 Schedule HSG-22
 Page 1 of 3

Line	Description	Includes	Customer Charge							
			Current Rates Revenue	Proposed Revenue with Step	Distribution Increase with Step	Annual Bills	Current Charge	Monthly Marginal Cost	Proposed Rate	Customer Charge Revenue
			(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
			<i>Sch. 18</i>	<i>Sch. 18</i>	<i>(B) X (A)-1</i>	<i>Sch. 1</i>	<i>Tariff</i>	<i>Sch. 4</i>	<i>Sch. 20</i>	<i>(D) X (G)</i>
1	Domestic	D	\$11,979,447	\$18,330,143	53.01%	416,486	\$4.36	\$15.05	\$11.00	\$4,581,345
2	Domestic Off Peak 6	D-6						\$15.05		-
3	Domestic-Opt. Peak	D-10	133,499	255,476	91.37%	4,924	\$7.49	\$15.05	\$11.00	54,165
4	General TOU	G-1	4,986,358	9,777,496	96.08%	1,480	\$93.37	\$41.92	\$300.00	443,946
5	General Long Hour	G-2	3,068,341	5,179,196	68.79%	10,524	\$24.98	\$28.42	\$50.00	526,194
6	General Service	G-3	3,446,059	4,722,316	37.04%	66,111	\$5.52	\$15.64	\$11.00	727,219
7	Outdoor Lighting	M	582,429	923,341	58.53%	1,188				1,188
8	Limited All Electric	T	460,428	881,039	91.35%	13,777	\$5.64	\$15.05	\$11.00	151,542
9	Ltd Comm Space	V	8,540	12,143	42.19%	240			\$0.00	-
10			<u>\$24,665,101</u>	<u>\$40,081,151</u>	62.50%	<u>514,729</u>				<u>\$6,484,411</u>
11			<i>Sch. 18</i>	<i>38,834,041</i>					<i>Sch. 20</i>	<i>6,484,411</i>
12	<u>Domestic</u>			<u>1,250,467</u>						
13	Residential	D05	<i>Target=</i>	<u>40,084,508</u>						
14										
15										
16										
17	Resi Peak Off Peak	D0516HR								
18										
19	Resi Low Inc	D7116HR								
20	Residential Low Inc	D71-76								
21										
22										
23										
24										
25	<u>Domestic-Opt. Peak</u>									
26	Residential TOU	D15-IH								
27	Resi TOU Low Inc	D51-D56-IH								
28	Resi TOU Low Inc Wtr	D61-D66-IH								
29										
30	<u>General TOU</u>									
31	On-Peak	G-1 On								
32	Off-Peak	G-1 Off								
33										

00100

Line	Description	Includes	Demand Charge					kWh-Based Charge			
			Billing Demand	Current Charge	Cost per kW-Month	Proposed Rate	Demand Charge Revenue	Balance of Temporary Revenue	kWh Deliveries X 1000	Proposed Rate with Step	kWh-Based Chg Revenue
			(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)
			<i>Sch. 1</i>	<i>Tariff</i>	<i>Sch. 2</i>	<i>Sch. 20</i>	<i>(I) X (L)</i>	<i>(B)-(H)-(M)</i>		<i>Rate to produce target revenue</i>	<i>(O) X (P)</i>
1	Domestic	D						\$13,748,798	280,551,600	See below	13,409,509
2	Domestic Off Peak 6	D-6						-	844,165	\$0.03605	30,432
3	Domestic-Opt. Peak	D-10						201,311	5,143,867	See below	194,460
4	General TOU	G-1	945,924	\$4.07	\$9.01	\$7.12	\$6,734,977	2,598,573	366,292,878	See below	2,264,435
5	General Long Hour	G-2	529,643	\$4.49	\$10.07	\$7.18	3,802,838	850,164	156,145,724	\$0.00406	633,952
6	General Service	G-3						3,995,097	93,001,126	\$0.04178	3,885,587
7	Outdoor Lighting	M						923,341	4,691,956		916,684
8	Limited All Electric	T						729,497	17,681,017	\$0.04134	730,933
9	Ltd Comm Space	V						12,143	277,086	\$0.04253	11,784
10			<u>1,475,567</u>				<u>\$10,537,815</u>	<u>\$23,058,924</u>	<u>924,629,419</u>		<u>\$22,077,777</u>
11						<i>Sch. 20</i>	<u>10,537,815</u>	<i>Sch. 20</i>	<u>924,629,419</u>	<i>Sch. 20+Step</i>	<u>22,079,349</u>
12	<u>Domestic</u>										
13	Residential	D05					Block 1		87,251,729	\$0.03605	3,145,425
14							Block 2		176,118,865	\$0.05340	9,404,747
15							Step 2		309,815	\$0.05340	16,544
16							Step 3 (Farm)		1,042,639	\$0.05469	57,022
17	Resi Peak Off Peak	D0516HR					On Peak		3,320,031	\$0.06323	209,926
18							Off Peak		1,652,618	\$0.03458	57,148
19	Resi Low Inc	D7116HR					On Peak		145,113	\$0.06323	9,176
20	Residential Low Inc	D71-76					Off Peak		74,993	\$0.03605	2,703
21							Block 1		3,523,520	\$0.03605	127,023
22							Block 2		7,112,276	\$0.05340	379,796
23									<u>280,551,600</u>		<u>13,409,509</u>
24											
25	<u>Domestic-Opt. Peak</u>										
26	Residential TOU	D15-IH					On Peak		1,775,044	\$0.10792	191,563
27	Resi TOU Low Inc	D51-D56-					Off Peak		3,368,823	\$0.00086	2,897
28	Resi TOU Low Inc Wtr	D61-D66-							<u>5,143,867</u>		<u>194,460</u>
29											
30	<u>General TOU</u>										
31	On-Peak	G-1 On					On Peak		163,954,858	\$0.01275	2,090,424
32	Off-Peak	G-1 Off					Off Peak		202,338,020	\$0.00086	174,011
33									<u>366,292,878</u>		<u>2,264,435</u>

Line	Description	Includes	Adders / Default	Storm	Rate Case Expense	High Voltage Metering	High Voltage Delivery	Interrupt- ible Credits	Optional Demand	Total Distribution Revenue	Difference to Target
			(R)	(S)	(T)	(U)	(V)	(W)	(X)	(Y)	(Z)
				(O) X 0.00130	(O) X 0.00042	% of revenue	Sch. 20	Sch. 20	Sch. 20	Sum (H), (M), (Q) to (X)	(Y) - (B) To nearest \$000
1	Domestic	D	(151,498)	364,717	117,832			(21,088)		18,300,816	(29,000)
2	Domestic Off Peak 6	D-6	(456)	1,097	355					31,428	31,000
3	Domestic-Opt. Peak	D-10	(2,315)	6,687	2,160					255,158	0
4	General TOU	G-1	(135,528)	476,181	153,843	(80,483)	(124,253)		42,150	9,775,269	(2,000)
5	General Long Hour	G-2	(57,774)	202,989	65,581	(820)	(285)		5,485	5,178,160	(1,000)
6	General Service	G-3	(50,221)	120,901	39,060					4,722,548	0
7	Outdoor Lighting	M	(1,736)	6,100	1,971					923,018	0
8	Limited All Electric	T	(7,780)	22,985	7,426			(24,323)		880,784	0
9	Ltd Comm Space	V	(127)	360	116					12,134	(9)
10			<u>(407,434)</u>	<u>1,202,018</u>	<u>388,344</u>	<u>(81,302)</u>	<u>(124,538)</u>	<u>(45,411)</u>	<u>47,635</u>	40,079,315	(1,009)
11			<i>(407,434)</i>	<i>1,202,018</i>	<i>388,344</i>	<i>(78,688)</i>	<i>(124,538)</i>	<i>(45,411)</i>	<i>47,635</i>	<i>40,081,151</i>	(1,836)
12	<u>Domestic</u>			Sch. 20	Sch. 20	Sch. 20	Sch. 20	Sch. 20	Sch. 20	Target	
13	Residential	D05		\$0.00130	\$0.00042	(1.0%)	(\$0.39)				
14											
15											
16											
17	Resi Peak Off Peak	D0516HR									
18											
19	Resi Low Inc	D7116HR									
20	Residential Low Inc	D71-76									
21											
22											
23											
24											
25	<u>Domestic-Opt. Peak</u>										
26	Residential TOU	D15-IH									
27	Resi TOU Low Inc	D51-D56-									
28	Resi TOU Low Inc Wtr	D61-D66-									
29											
30	<u>General TOU</u>										
31	On-Peak	G-1 On									
32	Off-Peak	G-1 Off									
33											

Compare, **Granite State Electric Company**
Sch. 23 **Revenue Allocation and Rates**
vFINAL **Comparison of Rates- Current vs. Permanent with Step**

Line	Description	In-cludes	Temp-orary Revenue Increase	Customer Charge			All Demand-Based Charges			All kWh-Based Charges			Current Rates			Permanent Rates with Step		
				Current Rate	Perm-anent Rates with Step	In-crease	Current Rate	Perm-anent Rates with Step	In-crease	Current Rate	Perm-anent Rates with Step	In-crease	Cus-tomer	kWh	De-mand	Cus-tomer	kWh	De-mand
				(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)
				Sch. 22	Sch. 22	[(C)/(B)]-1	Sch. 19	Sch. 22	[(F)/(E)]-1	Sch. 19	Sch. 22	[(I)/(H)]-1	Sch. 19	Sch. 22		Sch. 22	Sch. 22	Sch. 22
1	Domestic	D	53%	\$4.36	\$11.00	152%				Avg \$0.03622	\$0.04898	35%	15%	85%		25%	75%	
2	Domestic Off Peak 6	D-6								\$0.01872	\$0.03723	99%	-	100%		-	100%	
3	Domestic-Opt. Peak	D-10	91%	\$7.49	\$11.00	47%				Avg \$0.01878	\$0.03907	108%	28%	72%		21%	79%	
4	General TOU	G-1	96%	\$93.37	\$300.00	221%	\$3.96	\$6.95	76%	Avg \$0.00302	\$0.00753	150%	3%	22%	75%	5%	28%	67%
5	General Long Hour	G-2	69%	\$24.98	\$50.00	100%	\$4.49	\$7.19	60%	\$0.00272	\$0.00541	99%	9%	14%	78%	10%	16%	74%
6	General Service	G-3	37%	\$5.52	\$ 11.00	99%				\$0.03313	\$0.04296	30%	11%	89%		15%	85%	
7	Outdoor Lighting	M											-	100%		-	100%	
8	Limited All Electric	T	91%	\$5.64	\$11.00	95%				\$0.02252	\$0.04262	89%	17%	83%		17%	83%	
9	Ltd Comm Space	V	42%							\$0.03082	\$0.04379	42%	-	100%		-	100%	
10																		
11	Overall		63%										11%	64%	25%	16%	58%	26%

Bill_D_S Granite State Electric Company
Sch. 23A Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate D

Line	Monthly Usage- kWh	Current Rates				Permanent Rates with Step				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$4.36	\$0.00	\$0.00	\$4.36	\$11.00	\$0.00	\$0.00	\$11.00	\$6.64	152.3%	152.3%
2	5	\$4.44	\$0.13	\$0.38	\$4.95	\$11.18	\$0.13	\$0.38	\$11.68	\$6.73	147.2%	136.0%
3	10	\$4.52	\$0.26	\$0.75	\$5.54	\$11.36	\$0.25	\$0.75	\$12.36	\$6.83	142.6%	123.2%
4	25	\$4.77	\$0.65	\$1.88	\$7.31	\$11.90	\$0.63	\$1.88	\$14.41	\$7.10	130.9%	97.2%
5	50	\$5.18	\$1.31	\$3.76	\$10.25	\$12.80	\$1.26	\$3.76	\$17.82	\$7.57	116.5%	73.8%
6	100	\$6.01	\$2.61	\$7.53	\$16.15	\$14.59	\$2.52	\$7.53	\$24.64	\$8.49	98.5%	52.6%
7	200	\$7.66	\$5.23	\$15.05	\$27.94	\$18.19	\$5.04	\$15.05	\$38.28	\$10.34	80.3%	37.0%
8	300	\$10.63	\$7.84	\$22.58	\$41.05	\$22.65	\$7.56	\$22.58	\$52.78	\$11.74	63.5%	28.6%
9	400	\$14.92	\$10.46	\$30.10	\$55.48	\$27.97	\$10.08	\$30.10	\$68.16	\$12.68	50.0%	22.9%
10	500 Typical bill	\$19.22	\$13.07	\$37.63	\$69.91	\$33.30	\$12.61	\$37.63	\$83.53	\$13.62	42.2%	19.5%
11	600	\$23.51	\$15.68	\$45.15	\$84.35	\$38.63	\$15.13	\$45.15	\$98.91	\$14.56	37.1%	17.3%
12	674 Annual aver:	\$26.69	\$17.62	\$50.72	\$95.03	\$42.57	\$16.99	\$50.72	\$110.28	\$15.26	34.4%	16.1%
13	700	\$27.81	\$18.30	\$52.68	\$98.78	\$43.96	\$17.65	\$52.68	\$114.28	\$15.50	33.6%	15.7%
14	800	\$32.10	\$20.91	\$60.20	\$113.21	\$49.29	\$20.17	\$60.20	\$129.65	\$16.44	31.0%	14.5%
15	900	\$36.39	\$23.53	\$67.73	\$127.64	\$54.61	\$22.69	\$67.73	\$145.03	\$17.38	29.0%	13.6%
16	1000	\$40.69	\$26.14	\$75.25	\$142.08	\$59.94	\$25.21	\$75.25	\$160.40	\$18.33	27.4%	12.9%
17	1500	\$62.16	\$39.21	\$112.88	\$214.24	\$86.58	\$37.82	\$112.88	\$237.27	\$23.03	22.7%	10.7%
18	2000	\$83.63	\$52.28	\$150.50	\$286.41	\$113.22	\$50.42	\$150.50	\$314.14	\$27.74	20.4%	9.7%
19	3000	\$126.57	\$78.42	\$225.75	\$430.74	\$166.50	\$75.63	\$225.75	\$467.88	\$37.15	18.1%	8.6%
20	4000	\$169.51	\$104.56	\$301.00	\$575.07	\$219.78	\$100.84	\$301.00	\$621.62	\$46.55	17.0%	8.1%
21	5000	\$212.45	\$130.70	\$376.25	\$719.40	\$273.06	\$126.05	\$376.25	\$775.36	\$55.97	16.3%	7.8%

Bill_D_S Granite State Electric Company
Sch. 23A Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate D

Line	Monthly Usage- kWh	Current Rates				Permanent Rates with Step				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
22	Rates											
23	Distribution Charges		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
24	Customer Charge	4.36				11						
25	First 250 kWh	\$0.02	\$0.02	0.02614	0.04263	\$0.04	\$0.04	0.02521	0.06114			
26	Excess 250 kWh	\$0.04348	\$0.04294	\$0.02614	\$0.06908	\$0.05340	\$0.05328	\$0.02521	\$0.07849			
27												
28	Per kWh- All kWh											
29	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
30	Rate Case expense			Distribution		\$0.00042						
31	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
32	Transmission Charge	\$0.01856		Other Delivery		\$0.01856						
33	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
34	Stranded Cost Recovery	\$0.00150		Other Delivery		\$0.00150						
35	REP	(\$0.00037)		Distribution		(\$0.00037)						
36	Default Service Reclass	(\$0.00017)		Distribution		(\$0.00017)						
37		0.02560				0.02509						
38	Commodity, Default Service	<u>\$0.07525</u>				<u>\$0.07525</u>						

Bill_D10_ Granite State Electric Company
Sch. 23B Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate D10

Line	Monthly Usage- kWh	Current Rates				Permanent Rates with Step				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$7.49	\$0.00	\$0.00	\$7.49	\$11.00	\$0.00	\$0.00	\$11.00	\$3.51	46.9%	46.9%
2	5	\$7.59	\$0.12	\$0.38	\$8.08	\$11.22	\$0.12	\$0.38	\$11.71	\$3.63	47.1%	44.9%
3	10	\$7.63	\$0.24	\$0.75	\$8.63	\$11.33	\$0.23	\$0.75	\$12.32	\$3.69	46.8%	42.7%
4	25	\$7.92	\$0.61	\$1.88	\$10.41	\$11.98	\$0.58	\$1.88	\$14.45	\$4.04	47.4%	38.8%
5	50	\$8.31	\$1.22	\$3.76	\$13.28	\$12.86	\$1.17	\$3.76	\$17.79	\$4.51	47.4%	33.9%
6	100	\$9.17	\$2.43	\$7.53	\$19.12	\$14.83	\$2.34	\$7.53	\$24.69	\$5.57	48.0%	29.1%
7	200	\$10.80	\$4.86	\$15.05	\$30.71	\$18.55	\$4.68	\$15.05	\$38.28	\$7.57	48.3%	24.6%
8	300	\$12.48	\$7.29	\$22.58	\$42.35	\$22.38	\$7.01	\$22.58	\$51.97	\$9.63	48.7%	22.7%
9	400	\$14.11	\$9.72	\$30.10	\$53.93	\$26.11	\$9.35	\$30.10	\$65.56	\$11.62	48.8%	21.6%
10	500	\$15.79	\$12.16	\$37.63	\$65.57	\$29.94	\$11.69	\$37.63	\$79.25	\$13.68	49.0%	20.9%
11	600	\$17.42	\$14.59	\$45.15	\$77.16	\$33.66	\$14.03	\$45.15	\$92.84	\$15.68	49.0%	20.3%
12	700	\$19.10	\$17.02	\$52.68	\$88.79	\$37.49	\$16.37	\$52.68	\$106.53	\$17.74	49.1%	20.0%
13	800	\$20.73	\$19.45	\$60.20	\$100.38	\$41.21	\$18.70	\$60.20	\$120.12	\$19.74	49.1%	19.7%
14	900	\$22.41	\$21.88	\$67.73	\$112.01	\$45.04	\$21.04	\$67.73	\$133.81	\$21.80	49.2%	19.5%
15	1000	\$24.04	\$24.31	\$75.25	\$123.60	\$48.77	\$23.38	\$75.25	\$147.40	\$23.80	49.2%	19.3%
16	1500	\$32.34	\$36.47	\$112.88	\$181.68	\$67.70	\$35.07	\$112.88	\$215.65	\$33.97	49.4%	18.7%
17	2000	\$40.59	\$48.62	\$150.50	\$239.71	\$86.53	\$46.76	\$150.50	\$283.79	\$44.08	49.4%	18.4%
18	3000	\$57.14	\$72.93	\$225.75	\$355.82	\$124.30	\$70.14	\$225.75	\$420.19	\$64.37	49.5%	18.1%
19	4000	\$73.69	\$97.24	\$301.00	\$471.93	\$162.06	\$93.52	\$301.00	\$556.58	\$84.66	49.5%	17.9%
20	5000	\$90.24	\$121.55	\$376.25	\$588.04	\$199.83	\$116.90	\$376.25	\$692.98	\$104.94	49.6%	17.8%
21												

Bill_D10_ Granite State Electric Company
Sch. 23B Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate D10

Line	Monthly Usage- kWh	Current Rates			Permanent Rates with Step				Increase			
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
22	Rates											
23	Distribution Charges		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
24	Customer Charge	\$7.49				\$11.00						
25	On Peak	\$0.04821	\$0.04776	\$0.02431	\$0.07207	\$0.10792	\$0.10789	\$0.02338	\$0.13127			
26	Off Peak	\$0.00056	\$0.00011	\$0.02431	\$0.02442	\$0.00086	\$0.00083	\$0.02338	\$0.02421			
27												
28	Per kWh- All kWh											
29	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
30	Rate Case expense			Distribution		\$0.00042						
31	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
32	Transmission Charge	\$0.01672		Other Delivery		\$0.01672						
33	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
34	Stranded Cost Recovery	\$0.00151		Other Delivery		\$0.00151						
35	REP	(\$0.00037)		Distribution		(\$0.00037)						
36	Default Service Reclass	<u>(0.00008)</u>		Distribution		<u>(0.00008)</u>						
37		<u>\$0.02386</u>				<u>\$0.02335</u>						
38	Commodity, Default Service	\$0.07525				\$0.07525						

Bill_G1_S Granite State Electric Company
Sch. 23C Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate G1

Line	Load Factor	Demand	Current Rates				Permanent Rates with Step				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	25%	150	\$725	\$701	\$1,819	\$3,245	\$1,539	\$676	\$1,819	\$4,033	\$788	55.2%	24.3%
2	25%	200	\$936	\$935	\$2,425	\$4,296	\$1,951	\$901	\$2,425	\$5,277	\$981	52.5%	22.8%
3	25%	400	\$1,779	\$1,870	\$4,849	\$8,498	\$3,603	\$1,802	\$4,849	\$10,255	\$1,756	48.1%	20.7%
4	25%	550	\$2,411	\$2,572	\$6,668	\$11,650	\$4,842	\$2,478	\$6,668	\$13,988	\$2,337	46.9%	20.1%
5	25%	700	\$3,043	\$3,273	\$8,486	\$14,802	\$6,080	\$3,154	\$8,486	\$17,721	\$2,919	46.2%	19.7%
6	25%	1000	\$4,307	\$4,676	\$12,123	\$21,106	\$8,557	\$4,506	\$12,123	\$25,187	\$4,081	45.4%	19.3%
7	25%	2500	\$10,627	\$11,689	\$30,309	\$52,624	\$20,943	\$11,265	\$30,309	\$62,517	\$9,892	44.3%	18.8%
8													
9	35%	200	\$948	\$1,309	\$3,395	\$5,651	\$2,042	\$1,262	\$3,395	\$6,699	\$1,047	46.4%	18.5%
10	35%	250	\$1,161	\$1,636	\$4,243	\$7,041	\$2,478	\$1,577	\$4,243	\$8,298	\$1,258	45.0%	17.9%
11	35%	400	\$1,802	\$2,618	\$6,789	\$11,209	\$3,785	\$2,523	\$6,789	\$13,097	\$1,888	42.7%	16.8%
12	35%	550	\$2,442	\$3,600	\$9,335	\$15,378	\$5,092	\$3,470	\$9,335	\$17,896	\$2,519	41.7%	16.4%
13	35%	700	\$3,083	\$4,582	\$11,881	\$19,546	\$6,399	\$4,416	\$11,881	\$22,695	\$3,149	41.1%	16.1%
14	35%	1000	\$4,364	\$6,546	\$16,973	\$27,883	\$9,012	\$6,308	\$16,973	\$32,293	\$4,411	40.4%	15.8%
15	35%	2500	\$10,770	\$16,365	\$42,432	\$69,567	\$22,081	\$15,771	\$42,432	\$80,284	\$10,717	39.5%	15.4%
16													
17	50%	200	\$965	\$1,870	\$4,849	\$7,684	\$2,179	\$1,802	\$4,849	\$8,831	\$1,146	40.4%	14.9%
18	50%	250	\$1,183	\$2,338	\$6,062	\$9,582	\$2,649	\$2,253	\$6,062	\$10,963	\$1,381	39.2%	14.4%
19	50%	300	\$1,400	\$2,805	\$7,274	\$11,480	\$3,118	\$2,704	\$7,274	\$13,096	\$1,616	38.4%	14.1%
20	50%	400	\$1,836	\$3,741	\$9,699	\$15,275	\$4,058	\$3,605	\$9,699	\$17,361	\$2,086	37.4%	13.7%
21	50%	700	\$3,143	\$6,546	\$16,973	\$26,662	\$6,876	\$6,308	\$16,973	\$30,157	\$3,496	36.1%	13.1%
22	50%	1000	\$4,450	\$9,351	\$24,247	\$38,048	\$9,695	\$9,012	\$24,247	\$42,953	\$4,905	35.5%	12.9%
23	50%	2500	\$10,985	\$23,378	\$60,617	\$94,981	\$23,787	\$22,530	\$60,617	\$106,934	\$11,953	34.8%	12.6%
24													
25	60%	200	\$976	\$2,244	\$5,819	\$9,040	\$2,270	\$2,163	\$5,819	\$10,252	\$1,212	37.6%	13.4%
26	60%	300	\$1,418	\$3,366	\$8,729	\$13,513	\$3,255	\$3,244	\$8,729	\$15,228	\$1,715	35.9%	12.7%
27	60%	400	\$1,859	\$4,489	\$11,639	\$17,986	\$4,240	\$4,326	\$11,639	\$20,204	\$2,218	34.9%	12.3%
28	60%	550	\$2,521	\$6,172	\$16,003	\$24,696	\$5,717	\$5,948	\$16,003	\$27,668	\$2,972	34.2%	12.0%
29	60%	700	\$3,183	\$7,855	\$20,367	\$31,406	\$7,195	\$7,570	\$20,367	\$35,132	\$3,726	33.8%	11.9%
30	60%	1000	\$4,507	\$11,222	\$29,096	\$44,825	\$10,150	\$10,814	\$29,096	\$50,060	\$5,235	33.3%	11.7%
31	60%	2500	\$11,128	\$28,054	\$72,741	\$111,923	\$24,924	\$27,036	\$72,741	\$124,700	\$12,777	32.6%	11.4%

Bill_G1_S Granite State Electric Company
Sch. 23C Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate G1

Line	Load Factor	Demand	Current Rates				Permanent Rates with Step				Increase			
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %	
32														
33	75%	200	\$993	\$2,805	\$7,274	\$11,073	\$2,406	\$2,704	\$7,274	\$12,384	\$1,311	34.5%	11.8%	
34	75%	300	\$1,443	\$4,208	\$10,911	\$16,563	\$3,460	\$4,055	\$10,911	\$18,426	\$1,863	33.0%	11.3%	
35	75%	400	\$1,893	\$5,611	\$14,548	\$22,052	\$4,513	\$5,407	\$14,548	\$24,468	\$2,416	32.2%	11.0%	
36	75%	550	\$2,568	\$7,715	\$20,004	\$30,287	\$6,093	\$7,435	\$20,004	\$33,531	\$3,244	31.5%	10.7%	
37	75%	700	\$3,243	\$9,819	\$25,459	\$38,522	\$7,672	\$9,462	\$25,459	\$42,594	\$4,073	31.2%	10.6%	
38	75%	1000	\$4,593	\$14,027	\$36,370	\$54,991	\$10,832	\$13,518	\$36,370	\$60,720	\$5,730	30.8%	10.4%	
39	75%	2500	\$11,343	\$35,067	\$90,926	\$137,337	\$26,630	\$33,794	\$90,926	\$151,351	\$14,014	30.2%	10.2%	
40														
41	Rates													
42	Distribution Charges			Tariff	Other Deliv	Total		Tariff	Other Deliv	Total				
43	Customer Charge		\$93.37				\$300.00							
44	On-Peak kWh		\$0.00189	\$0.00152	\$0.02562	\$0.02714	\$0.01275	\$0.01280	\$0.02469	\$0.03749				
45	Off-Peak kWh		\$0.00056	\$0.00019	\$0.02562	\$0.02581	\$0.00086	\$0.00091	\$0.02469	\$0.02560				
46	Demand Charge		\$4.07				\$7.12							
47														
48														
49	Per kWh- All kWh													
50	Storm Recovery		\$0.00223				\$0.00130							
51	Rate Case expense						\$0.00042							
52	Electricity Consumption Tax		\$0.00055				\$0.00055							
53	Transmission Charge		\$0.01804				\$0.01804							
54	System Benefits Charge		\$0.00330				\$0.00330							
55	Stranded Cost Recovery		\$0.00150				\$0.00150							
56	REP		(\$0.00037)				(\$0.00037)							
57	Default Service Reclass		0.00000				0.00000							
58			<u>\$0.02525</u>				<u>\$0.02474</u>							
59	Commodity, Default Service		\$0.06643				\$0.06643							
60														
61														

Line	Load Factor	Demand	Current Rates				Permanent Rates with Step				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
1	25%	150	\$681	\$694	\$1,819	\$3,194	\$1,453	\$681	\$1,819	\$3,952	\$759	55.2%	23.8%
2	25%	200	\$877	\$926	\$2,425	\$4,228	\$1,839	\$907	\$2,425	\$5,171	\$943	52.3%	22.3%
3	25%	400	\$1,662	\$1,852	\$4,849	\$8,363	\$3,381	\$1,815	\$4,849	\$10,045	\$1,682	47.9%	20.1%
4	25%	550	\$2,250	\$2,546	\$6,668	\$11,464	\$4,537	\$2,495	\$6,668	\$13,700	\$2,236	46.6%	19.5%
5	25%	700	\$2,839	\$3,240	\$8,486	\$14,566	\$5,693	\$3,176	\$8,486	\$17,356	\$2,790	45.9%	19.2%
6	25%	1000	\$4,016	\$4,629	\$12,123	\$20,768	\$8,006	\$4,537	\$12,123	\$24,666	\$3,898	45.1%	18.8%
7	25%	2500	\$9,902	\$11,572	\$30,309	\$51,783	\$19,570	\$11,342	\$30,309	\$61,221	\$9,438	44.0%	18.2%
8													
9	35%	200	\$889	\$1,296	\$3,395	\$5,579	\$1,923	\$1,270	\$3,395	\$6,588	\$1,009	46.2%	18.1%
10	35%	250	\$1,088	\$1,620	\$4,243	\$6,951	\$2,329	\$1,588	\$4,243	\$8,160	\$1,210	44.7%	17.4%
11	35%	400	\$1,685	\$2,592	\$6,789	\$11,066	\$3,549	\$2,541	\$6,789	\$12,878	\$1,812	42.4%	16.4%
12	35%	550	\$2,282	\$3,564	\$9,335	\$15,181	\$4,768	\$3,493	\$9,335	\$17,596	\$2,415	41.3%	15.9%
13	35%	700	\$2,879	\$4,536	\$11,881	\$19,296	\$5,987	\$4,446	\$11,881	\$22,314	\$3,018	40.7%	15.6%
14	35%	1000	\$4,073	\$6,480	\$16,973	\$27,526	\$8,426	\$6,351	\$16,973	\$31,751	\$4,224	40.0%	15.3%
15	35%	2500	\$10,044	\$16,201	\$42,432	\$68,677	\$20,620	\$15,879	\$42,432	\$78,931	\$10,254	39.1%	14.9%
16													
17	50%	200	\$906	\$1,852	\$4,849	\$7,606	\$2,049	\$1,815	\$4,849	\$8,713	\$1,106	40.1%	14.5%
18	50%	250	\$1,109	\$2,314	\$6,062	\$9,485	\$2,487	\$2,268	\$6,062	\$10,817	\$1,332	38.9%	14.0%
19	50%	300	\$1,312	\$2,777	\$7,274	\$11,364	\$2,925	\$2,722	\$7,274	\$12,921	\$1,557	38.1%	13.7%
20	50%	400	\$1,719	\$3,703	\$9,699	\$15,121	\$3,801	\$3,629	\$9,699	\$17,129	\$2,008	37.0%	13.3%
21	50%	550	\$2,329	\$5,092	\$13,336	\$20,756	\$5,115	\$4,990	\$13,336	\$23,441	\$2,685	36.2%	12.9%
22	50%	1000	\$4,158	\$9,258	\$24,247	\$37,663	\$9,056	\$9,073	\$24,247	\$42,377	\$4,714	35.1%	12.5%
23	50%	2500	\$10,256	\$23,144	\$60,617	\$94,018	\$22,195	\$22,684	\$60,617	\$105,496	\$11,478	34.4%	12.2%
24													
25	60%	200	\$917	\$2,222	\$5,819	\$8,958	\$2,133	\$2,178	\$5,819	\$10,130	\$1,172	37.3%	13.1%
26	60%	300	\$1,329	\$3,333	\$8,729	\$13,391	\$3,051	\$3,266	\$8,729	\$15,046	\$1,655	35.5%	12.4%
27	60%	400	\$1,741	\$4,444	\$11,639	\$17,824	\$3,969	\$4,355	\$11,639	\$19,963	\$2,139	34.6%	12.0%
28	60%	550	\$2,360	\$6,110	\$16,003	\$24,473	\$5,346	\$5,989	\$16,003	\$27,337	\$2,864	33.8%	11.7%
29	60%	700	\$2,978	\$7,777	\$20,367	\$31,122	\$6,723	\$7,622	\$20,367	\$34,712	\$3,590	33.4%	11.5%
30	60%	1000	\$4,215	\$11,109	\$29,096	\$44,420	\$9,476	\$10,888	\$29,096	\$49,461	\$5,040	32.9%	11.3%
31	60%	2500	\$10,398	\$27,773	\$72,741	\$110,912	\$23,245	\$27,220	\$72,741	\$123,207	\$12,294	32.2%	11.1%
32													

Line	Load Factor	Demand	Current Rates				Permanent Rates with Step				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
33	75%	200	\$934	\$2,777	\$7,274	\$10,985	\$2,259	\$2,722	\$7,274	\$12,255	\$1,270	34.2%	11.6%
34	75%	300	\$1,355	\$4,166	\$10,911	\$16,432	\$3,240	\$4,083	\$10,911	\$18,234	\$1,802	32.6%	11.0%
35	75%	400	\$1,775	\$5,555	\$14,548	\$21,878	\$4,221	\$5,444	\$14,548	\$24,213	\$2,335	31.9%	10.7%
36	75%	550	\$2,407	\$7,638	\$20,004	\$30,048	\$5,692	\$7,486	\$20,004	\$33,182	\$3,134	31.2%	10.4%
37	75%	700	\$3,038	\$9,721	\$25,459	\$38,218	\$7,164	\$9,527	\$25,459	\$42,150	\$3,932	30.8%	10.3%
38	75%	1000	\$4,300	\$13,887	\$36,370	\$54,557	\$10,106	\$13,610	\$36,370	\$60,087	\$5,530	30.4%	10.1%
39	75%	2500	\$10,611	\$34,717	\$90,926	\$136,254	\$24,820	\$34,026	\$90,926	\$149,772	\$13,518	29.8%	9.9%
40													
41	Rates												
42	<u>Distribution Charges</u>			<u>Tariff</u>	<u>Other Deliv</u>	<u>Total</u>		<u>Tariff</u>	<u>Other Deliv</u>	<u>Total</u>			
43	Customer Charge		\$93.37				\$300.00						
44	On-Peak kWh		\$0.00189	\$0.00152	\$0.02562	\$0.02714	\$0.01275	\$0.01238	\$0.02511	\$0.03749			
45	Off-Peak kWh		\$0.00056	\$0.00019	\$0.02562	\$0.02581	\$0.00086	\$0.00049	\$0.02511	\$0.02560			
46	Demand Charge net of I		-0.25	\$3.82		-0.393613	\$6.73						
47	HVM Discount		-0.01	\$0.99		-0.01	\$0.99						
48													
49	<u>Per kWh- All kWh</u>												
50	Storm Recovery		\$0.00223				\$0.00130						
51	Rate Case expense		\$0.00000				\$0.00042						
52	Electricity Consumption Tax		\$0.00055				\$0.00055						
53	Transmission Charge		\$0.01804				\$0.01804						
54	System Benefits Charge		\$0.00330				\$0.00330						
55	Stranded Cost Recovery		\$0.00150				\$0.00150						
56	REP		(\$0.00037)				(\$0.00037)						
57	Default Service Reclass		0.00000				0.00000						
58			<u>\$0.02525</u>				<u>\$0.02474</u>						
59	Commodity, Default Service		\$0.06643				\$0.06643						
60													

Bill_G2_S Granite State Electric Company
Sch. 23E Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate G2

Line	Load Factor	Demand	Current Rates				Permanent Rates with Step				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
1	25%	20	\$116.57	\$100.23	\$242.47	\$459.27	\$208.60	\$96.83	\$242.47	\$547.91	\$88.64	40.9%	19.3%
2	25%	30	\$162.36	\$150.34	\$363.70	\$676.41	\$287.90	\$145.25	\$363.70	\$796.86	\$120.45	38.5%	17.8%
3	25%	50	\$253.95	\$250.57	\$606.17	\$1,110.70	\$446.50	\$242.09	\$606.17	\$1,294.76	\$184.07	36.5%	16.6%
4	25%	75	\$368.44	\$375.86	\$909.26	\$1,653.56	\$644.76	\$363.13	\$909.26	\$1,917.15	\$263.59	35.4%	15.9%
5	25%	100	\$482.92	\$501.15	\$1,212.35	\$2,196.42	\$843.01	\$484.17	\$1,212.35	\$2,539.53	\$343.11	34.9%	15.6%
6	25%	200	\$940.87	\$1,002.29	\$2,424.70	\$4,367.85	\$1,636.02	\$968.35	\$2,424.70	\$5,029.06	\$661.21	34.0%	15.1%
7													
8	30%	20	\$116.93	\$120.27	\$290.96	\$528.16	\$211.60	\$116.20	\$290.96	\$618.77	\$90.60	38.2%	17.2%
9	30%	30	\$162.90	\$180.41	\$436.45	\$779.76	\$292.40	\$174.30	\$436.45	\$903.15	\$123.39	35.9%	15.8%
10	30%	50	\$254.85	\$300.69	\$727.41	\$1,282.94	\$454.00	\$290.50	\$727.41	\$1,471.92	\$188.98	34.0%	14.7%
11	30%	75	\$369.78	\$451.03	\$1,091.11	\$1,911.92	\$656.01	\$435.76	\$1,091.11	\$2,182.87	\$270.95	33.0%	14.2%
12	30%	100	\$484.71	\$601.37	\$1,454.82	\$2,540.90	\$858.01	\$581.01	\$1,454.82	\$2,893.83	\$352.93	32.5%	13.9%
13	30%	200	\$944.44	\$1,202.75	\$2,909.63	\$5,056.82	\$1,666.02	\$1,162.01	\$2,909.63	\$5,737.67	\$680.84	31.7%	13.5%
14													
15	40%	20	\$117.64	\$160.37	\$387.95	\$665.96	\$217.60	\$154.94	\$387.95	\$760.49	\$94.53	34.0%	14.2%
16	40%	30	\$163.97	\$240.55	\$581.93	\$986.45	\$301.40	\$232.40	\$581.93	\$1,115.73	\$129.28	32.0%	13.1%
17	40%	50	\$256.63	\$400.92	\$969.88	\$1,627.43	\$469.01	\$387.34	\$969.88	\$1,826.22	\$198.79	30.2%	12.2%
18	40%	75	\$372.46	\$601.37	\$1,454.82	\$2,428.65	\$678.51	\$581.01	\$1,454.82	\$2,714.33	\$285.68	29.3%	11.8%
19	40%	100	\$488.29	\$801.83	\$1,939.76	\$3,229.88	\$888.01	\$774.68	\$1,939.76	\$3,602.44	\$372.57	28.9%	11.5%
20	40%	200	\$951.60	\$1,603.66	\$3,879.51	\$6,434.77	\$1,726.02	\$1,549.35	\$3,879.51	\$7,154.89	\$720.12	28.2%	11.2%
21													
22	50%	20	\$118.36	\$200.46	\$484.94	\$803.75	\$223.60	\$193.67	\$484.94	\$902.21	\$98.46	30.9%	12.2%
23	50%	30	\$165.05	\$300.69	\$727.41	\$1,193.14	\$310.40	\$290.50	\$727.41	\$1,328.32	\$135.18	29.0%	11.3%
24	50%	50	\$258.42	\$501.15	\$1,212.35	\$1,971.92	\$484.01	\$484.17	\$1,212.35	\$2,180.53	\$208.61	27.5%	10.6%
25	50%	75	\$375.14	\$751.72	\$1,818.52	\$2,945.38	\$701.01	\$726.26	\$1,818.52	\$3,245.79	\$300.41	26.7%	10.2%
26	50%	100	\$491.87	\$1,002.29	\$2,424.70	\$3,918.85	\$918.02	\$968.35	\$2,424.70	\$4,311.06	\$392.21	26.2%	10.0%
27	50%	200	\$958.75	\$2,004.58	\$4,849.39	\$7,812.72	\$1,786.03	\$1,936.69	\$4,849.39	\$8,572.11	\$759.39	25.6%	9.7%
28													

Bill_G2_S Granite State Electric Company
Sch. 23E Revenue Allocation and Rates
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Line	Load Factor	Demand	Current Rates				Permanent Rates with Step				Increase		
			Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution \$	Distrib- ution %	Total Bill %
29	65%	20	\$119.43	\$260.60	\$630.42	\$1,010.45	\$232.60	\$251.77	\$630.42	\$1,114.79	\$104.35	27.5%	10.3%
30	65%	30	\$166.66	\$390.89	\$945.63	\$1,503.18	\$323.91	\$377.65	\$945.63	\$1,647.19	\$144.01	25.8%	9.6%
31	65%	50	\$261.11	\$651.49	\$1,576.05	\$2,488.65	\$506.51	\$629.42	\$1,576.05	\$2,711.99	\$223.34	24.5%	9.0%
32	65%	75	\$379.17	\$977.23	\$2,364.08	\$3,720.48	\$734.76	\$944.14	\$2,364.08	\$4,042.98	\$322.50	23.8%	8.7%
33	65%	100	\$497.23	\$1,302.98	\$3,152.10	\$4,952.31	\$963.02	\$1,258.85	\$3,152.10	\$5,373.97	\$421.66	23.4%	8.5%
34	65%	200	\$969.48	\$2,605.95	\$6,304.21	\$9,879.64	\$1,876.04	\$2,517.70	\$6,304.21	\$10,697.94	\$818.30	22.9%	8.3%
35													
36	Rates												
37	Distribution Charges			Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
38	Customer Charge		\$24.98				\$50.00						
39	All kWh		\$0.00086	\$0.00049	\$0.02746	\$0.02795	\$0.00406	\$0.00411	\$0.02653	\$0.03064			
40	Demand Charge		\$4.49				\$7.18						
41													
42	Per kWh- All kWh												
43	Storm Recovery		\$0.00223				\$0.00130						
44	Rate Case expense						\$0.00042						
45	Electricity Consumption Tax		\$0.00055				\$0.00055						
46	Transmission Charge		\$0.01988				\$0.01988						
47	System Benefits Charge		\$0.00330				\$0.00330						
48	Stranded Cost Recovery		\$0.00150				\$0.00150						
49	REP		(\$0.00037)				(\$0.00037)						
50	Default Service Reclass		0.00000				0.00000						
51			\$0.02709				\$0.02658						
52	Commodity, Default Service		\$0.06643				\$0.06643						
53													

Line	Monthly Usage- kWh	Current Rates				Permanent Rates with Step				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$5.52	\$0.00	\$0.00	\$5.52	\$11.00	\$0.00	\$0.00	\$11.00	\$5.48	99.3%	99.3%
2	100	\$8.61	\$2.73	\$7.53	\$18.86	\$15.17	\$2.64	\$7.53	\$25.33	\$6.46	57.0%	34.3%
3	250	\$13.25	\$6.82	\$18.81	\$38.88	\$21.42	\$6.59	\$18.81	\$46.82	\$7.94	39.6%	20.4%
4	500	\$20.97	\$13.65	\$37.63	\$72.24	\$31.83	\$13.18	\$37.63	\$82.64	\$10.40	30.0%	14.4%
5	750	\$28.70	\$20.47	\$56.44	\$105.60	\$42.25	\$19.77	\$56.44	\$118.45	\$12.85	26.1%	12.2%
6	1000	\$36.42	\$27.29	\$75.25	\$138.96	\$52.66	\$26.36	\$75.25	\$154.27	\$15.31	24.0%	11.0%
7	1250	\$44.15	\$34.11	\$94.06	\$172.32	\$63.08	\$32.95	\$94.06	\$190.09	\$17.77	22.7%	10.3%
8	1500	\$51.87	\$40.94	\$112.88	\$205.68	\$73.49	\$39.54	\$112.88	\$225.91	\$20.23	21.8%	9.8%
9	1750	\$59.60	\$47.76	\$131.69	\$239.04	\$83.91	\$46.13	\$131.69	\$261.72	\$22.68	21.1%	9.5%
10	2000	\$67.32	\$54.58	\$150.50	\$272.40	\$94.32	\$52.72	\$150.50	\$297.54	\$25.14	20.6%	9.2%
11	2500	\$82.77	\$68.23	\$188.13	\$339.12	\$115.15	\$65.90	\$188.13	\$369.18	\$30.06	19.9%	8.9%
12	3000	\$98.22	\$81.87	\$225.75	\$405.84	\$135.98	\$79.08	\$225.75	\$440.81	\$34.97	19.4%	8.6%
13	4000	\$129.12	\$109.16	\$301.00	\$539.28	\$177.64	\$105.44	\$301.00	\$584.08	\$44.80	18.8%	8.3%
14	5000	\$160.02	\$136.45	\$376.25	\$672.72	\$219.30	\$131.80	\$376.25	\$727.35	\$54.63	18.4%	8.1%
15	6000	\$190.92	\$163.74	\$451.50	\$806.16	\$260.96	\$158.16	\$451.50	\$870.62	\$64.46	18.2%	8.0%
16	7500	\$237.27	\$204.68	\$564.38	\$1,006.32	\$323.45	\$197.70	\$564.38	\$1,085.53	\$79.21	17.9%	7.9%
17												
18	Rates											
19	<u>Distribution Charges</u>											
20	Customer Charge	\$5.52				\$11.00						
21	All kWh	\$0.03144	\$0.03090	\$0.02729	\$0.05819	\$0.04178	\$0.04166	\$0.02636	\$0.06802			
22												
23	<u>Per kWh- All kWh</u>											
24	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
25	Rate Case expense			Distribution		\$0.00042						
26	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
27	Transmission Charge	\$0.01971		Other Delivery		\$0.01971						
28	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
29	Stranded Cost Recovery	\$0.00150		Other Delivery		\$0.00150						
30	REP	(\$0.00037)		Distribution		(\$0.00037)						
31	Default Service Reclass	(0.00017)		Distribution		(0.00017)						
32		<u>\$0.02675</u>				<u>\$0.02624</u>						
33	Commodity, Default Service	\$0.07525				\$0.07525						

Line	Monthly Usage- kWh	Current Rates				Permanent Rates with Step				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$5.64	\$0.00	\$0.00	\$5.64	\$11.00	\$0.00	\$0.00	\$11.00	\$5.36	95.0%	95.0%
2	5	\$5.74	\$0.12	\$0.38	\$6.24	\$11.21	\$0.12	\$0.38	\$11.70	\$5.46	93.2%	87.5%
3	10	\$5.84	\$0.24	\$0.75	\$6.84	\$11.41	\$0.23	\$0.75	\$12.40	\$5.56	91.4%	81.3%
4	25	\$6.15	\$0.60	\$1.88	\$8.63	\$12.03	\$0.58	\$1.88	\$14.49	\$5.86	86.9%	67.9%
5	50	\$6.65	\$1.21	\$3.76	\$11.62	\$13.07	\$1.16	\$3.76	\$17.99	\$6.37	81.0%	54.8%
6	100	\$7.67	\$2.41	\$7.53	\$17.61	\$15.13	\$2.32	\$7.53	\$24.98	\$7.37	73.1%	41.9%
7	200	\$9.70	\$4.82	\$15.05	\$29.57	\$19.26	\$4.64	\$15.05	\$38.95	\$9.38	64.6%	31.7%
8	300	\$11.73	\$7.23	\$22.58	\$41.54	\$23.40	\$6.95	\$22.58	\$52.93	\$11.39	60.1%	27.4%
9	400	\$13.76	\$9.64	\$30.10	\$53.50	\$27.53	\$9.27	\$30.10	\$66.90	\$13.40	57.3%	25.0%
10	500	\$15.79	\$12.06	\$37.63	\$65.47	\$31.66	\$11.59	\$37.63	\$80.88	\$15.41	55.4%	23.5%
11	600	\$17.81	\$14.47	\$45.15	\$77.43	\$35.79	\$13.91	\$45.15	\$94.85	\$17.42	54.0%	22.5%
12	700	\$19.84	\$16.88	\$52.68	\$89.40	\$39.92	\$16.23	\$52.68	\$108.83	\$19.43	52.9%	21.7%
13	800	\$21.87	\$19.29	\$60.20	\$101.36	\$44.06	\$18.54	\$60.20	\$122.80	\$21.44	52.1%	21.2%
14	900	\$23.90	\$21.70	\$67.73	\$113.33	\$48.19	\$20.86	\$67.73	\$136.78	\$23.45	51.4%	20.7%
15	1000	\$25.93	\$24.11	\$75.25	\$125.29	\$52.32	\$23.18	\$75.25	\$150.75	\$25.46	50.9%	20.3%
16	1500	\$36.08	\$36.17	\$112.88	\$185.12	\$72.98	\$34.77	\$112.88	\$220.63	\$35.51	49.2%	19.2%
17	2000	\$46.22	\$48.22	\$150.50	\$244.94	\$93.64	\$46.36	\$150.50	\$290.50	\$45.56	48.2%	18.6%
18	3000	\$66.51	\$72.33	\$225.75	\$364.59	\$134.96	\$69.54	\$225.75	\$430.25	\$65.66	47.3%	18.0%
19	4000	\$86.80	\$96.44	\$301.00	\$484.24	\$176.28	\$92.72	\$301.00	\$570.00	\$85.76	46.8%	17.7%
20	5000	\$107.09	\$120.55	\$376.25	\$603.89	\$217.60	\$115.90	\$376.25	\$709.75	\$105.86	46.5%	17.5%
21												

Line	Monthly Usage- kWh	Current Rates			Permanent Rates with Step				Increase			
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
22	Rates											
23	<u>Distribution Charges</u>		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
24	Customer Charge	\$5.64				\$11.00						
25	All kWh	\$0.02073	\$0.02029	\$0.02411	\$0.04440	\$0.04134	\$0.04132	\$0.02318	\$0.06450			
26												
27	<u>Per kWh- All kWh</u>											
28	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
29	Rate Case expense			Distribution		\$0.00042						
30	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
31	Transmission Charge	\$0.01653		Other Delivery		\$0.01653						
32	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
33	Stranded Cost Recovery	\$0.00150		Other Delivery		\$0.00150						
34	REP	(\$0.00037)		Distribution		(\$0.00037)						
35	Default Service Reclass	(0.00007)		Distribution		(0.00007)						
36		<u>\$0.02367</u>				<u>\$0.02316</u>						
37	Commodity, Default Service	\$0.07525				\$0.07525						

Bill_V_S Granite State Electric Company
Sch. 23H Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate V

Line	Monthly Usage- kWh	Current Rates				Permanent Rates with Step				Increase		
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
1	0	\$5.89	\$0.00	\$0.00	\$5.89	\$8.38	\$0.00	\$0.00	\$8.38	\$2.49	42.3%	42.3%
2	5	\$5.89	\$0.14	\$0.38	\$6.41	\$8.38	\$0.14	\$0.38	\$8.89	\$2.49	41.2%	38.8%
3	10	\$5.89	\$0.29	\$0.75	\$6.93	\$8.38	\$0.28	\$0.75	\$9.41	\$2.48	40.2%	35.8%
4	25	\$5.89	\$0.71	\$1.88	\$8.48	\$8.38	\$0.69	\$1.88	\$10.95	\$2.47	37.4%	29.1%
5	50	\$5.89	\$1.43	\$3.76	\$11.08	\$8.38	\$1.38	\$3.76	\$13.52	\$2.44	33.4%	22.1%
6	100	\$5.89	\$2.85	\$7.53	\$16.27	\$8.38	\$2.76	\$7.53	\$18.67	\$2.40	27.4%	14.7%
7	200	\$5.89	\$5.71	\$15.05	\$26.65	\$8.50	\$5.52	\$15.05	\$29.07	\$2.42	20.9%	9.1%
8	300	\$8.58	\$8.56	\$22.58	\$39.71	\$12.75	\$8.28	\$22.58	\$43.61	\$3.89	22.7%	9.8%
9	400	\$11.44	\$11.42	\$30.10	\$52.95	\$17.00	\$11.04	\$30.10	\$58.14	\$5.19	22.7%	9.8%
10	500	\$14.30	\$14.27	\$37.63	\$66.19	\$21.25	\$13.81	\$37.63	\$72.68	\$6.49	22.7%	9.8%
11	600	\$17.15	\$17.12	\$45.15	\$79.43	\$25.49	\$16.57	\$45.15	\$87.21	\$7.78	22.7%	9.8%
12	700	\$20.01	\$19.98	\$52.68	\$92.67	\$29.74	\$19.33	\$52.68	\$101.75	\$9.08	22.7%	9.8%
13	800	\$22.87	\$22.83	\$60.20	\$105.90	\$33.99	\$22.09	\$60.20	\$116.28	\$10.38	22.7%	9.8%
14	900	\$25.73	\$25.69	\$67.73	\$119.14	\$38.24	\$24.85	\$67.73	\$130.82	\$11.67	22.7%	9.8%
15	1000	\$28.59	\$28.54	\$75.25	\$132.38	\$42.49	\$27.61	\$75.25	\$145.35	\$12.97	22.7%	9.8%
16	1500	\$42.89	\$42.81	\$112.88	\$198.57	\$63.74	\$41.42	\$112.88	\$218.03	\$19.46	22.7%	9.8%
17	2000	\$57.18	\$57.08	\$150.50	\$264.76	\$84.98	\$55.22	\$150.50	\$290.70	\$25.94	22.7%	9.8%
18	3000	\$85.77	\$85.62	\$225.75	\$397.14	\$127.47	\$82.83	\$225.75	\$436.05	\$38.91	22.7%	9.8%
19	4000	\$114.36	\$114.16	\$301.00	\$529.52	\$169.96	\$110.44	\$301.00	\$581.40	\$51.88	22.7%	9.8%
20	5000	\$142.95	\$142.70	\$376.25	\$661.90	\$212.45	\$138.05	\$376.25	\$726.75	\$64.85	22.7%	9.8%
21												

Bill_V_S Granite State Electric Company
Sch. 23H Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate V

Line	Monthly Usage- kWh	Current Rates			Permanent Rates with Step				Increase			
		Distrib- ution	Other Delivery	Com- modity	Total Bill	Distrib- ution	Other Delivery	Com- modity	Total Bill	Total Delivery \$	Total Delivery %	Total Bill %
22	Rates											
23	Distribution Charges		Tariff	Other Deliv	Total		Tariff	Other Deliv	Total			
24	Customer Charge	\$0.00				\$0.00						
25	All kWh	\$0.02905	\$0.02859	\$0.02854	\$0.05713	\$0.04253	\$0.04249	\$0.02761	\$0.07010			
26	Minimum Charge	\$5.89				\$8.38						
27												
28	Per kWh- All kWh											
29	Storm Recovery	\$0.00223		Other Delivery		\$0.00130						
30	Rate Case expense			Distribution		\$0.00042						
31	Electricity Consumption Tax	\$0.00055		Other Delivery		\$0.00055						
32	Transmission Charge	\$0.02094		Other Delivery		\$0.02094						
33	System Benefits Charge	\$0.00330		Other Delivery		\$0.00330						
34	Stranded Cost Recovery	\$0.00152		Other Delivery		\$0.00152						
35	REP	(\$0.00037)		Distribution		(\$0.00037)						
36	Default Service Reclass	<u>(0.00009)</u>		Distribution		<u>(0.00009)</u>						
37		<u>\$0.02808</u>				<u>\$0.02757</u>						
38	Commodity, Default Service	\$0.07525				\$0.07525						

Bill_M_S Granite State Electric Company
Sch. 23I Revenue Allocation and Rates
vFINAL Bill Impacts for Permanent Rates with Step- Rate M

	kWh / Yr	Current Rates						Permanent Rates with Step					Increase		
		Annual Fixture Charge	Other Distribution Charges	Other Delivery Charges	Commodity	Total Bill	Annual Fixture Charge	Other Distribution Charges	Other Delivery Charges	Commodity	Total Bill	Distribution \$	Distribution %	Total Bill %	
1	Outdoor Lighting														
2	Sodium 50W	252	\$50.83	\$0.05	\$4.18	\$7.56	\$62.61	\$81.22	\$0.16	\$3.94	\$7.56	\$92.88	\$30.50	59.9%	48.7%
3	Sodium 100W	492	\$61.62	\$0.09	\$8.15	\$14.76	\$84.63	\$98.46	\$0.31	\$7.69	\$14.76	\$121.22	\$37.05	60.0%	43.8%
4	Sodium 250W	1,284	\$108.20	\$0.24	\$21.28	\$38.52	\$168.24	\$172.89	\$0.80	\$20.08	\$38.52	\$232.29	\$65.24	60.2%	38.8%
5	Sodium 400W	1,968	\$140.99	\$0.37	\$32.61	\$59.04	\$233.01	\$225.28	\$1.22	\$30.78	\$59.04	\$316.32	\$85.14	60.2%	36.5%
6	Sodium 100W Post	492	\$70.97	\$0.09	\$8.15	\$14.76	\$93.98	\$113.40	\$0.31	\$7.69	\$14.76	\$136.16	\$42.64	60.0%	45.4%
7	Sodium 250W Flood	1,284	\$109.17	\$0.24	\$21.28	\$38.52	\$169.21	\$174.44	\$0.80	\$20.08	\$38.52	\$233.84	\$65.82	60.2%	38.9%
8	Sodium 400W Flood	1,944	\$150.70	\$0.37	\$32.21	\$58.32	\$241.60	\$240.79	\$1.21	\$30.40	\$58.32	\$330.72	\$90.93	60.2%	37.6%
9	Incandescent 103W	444	\$67.85	\$0.08	\$7.36	\$13.32	\$88.61	\$108.41	\$0.28	\$6.94	\$13.32	\$128.95	\$40.75	60.0%	46.0%
10	Mercury 100W	564	\$49.11	\$0.11	\$9.35	\$16.92	\$75.48	\$78.47	\$0.35	\$8.82	\$16.92	\$104.56	\$29.60	60.1%	39.2%
11	Mercury 175W	912	\$59.71	\$0.17	\$15.11	\$27.36	\$102.36	\$95.41	\$0.57	\$14.26	\$27.36	\$137.60	\$36.09	60.3%	35.3%
12	Mercury 400W	1,896	\$112.94	\$0.36	\$31.42	\$56.88	\$201.60	\$180.46	\$1.18	\$29.65	\$56.88	\$268.17	\$68.34	60.3%	33.9%
13	Mercury 1000W	4,572	\$214.28	\$0.87	\$75.76	\$137.16	\$428.07	\$342.38	\$2.83	\$71.51	\$137.16	\$553.88	\$130.07	60.5%	30.4%
14	Mercury 400W Flood	1,896	\$124.90	\$0.36	\$31.42	\$56.88	\$213.56	\$199.57	\$1.18	\$29.65	\$56.88	\$287.28	\$75.49	60.3%	35.3%
15	Mercury 1000W Flood	4,572	\$215.68	\$0.87	\$75.76	\$137.16	\$429.47	\$344.62	\$2.83	\$71.51	\$137.16	\$556.12	\$130.91	60.5%	30.5%
16	Poles		\$59.89				\$59.89	\$95.69				\$95.69	\$35.80	59.8%	59.8%
17	Service-Fiber Direct		\$62.02				\$62.02	\$99.10				\$99.10	\$37.08	59.8%	59.8%
18	Service-Fiber <25		\$105.19				\$105.19	\$168.08				\$168.08	\$62.89	59.8%	59.8%
19	Service-Fiber >25		\$175.74				\$175.74	\$280.80				\$280.80	\$105.06	59.8%	59.8%
20	Service-Metal Direct		\$125.43				\$125.43	\$200.42				\$200.42	\$74.99	59.8%	59.8%
21	Service-Metal >25		\$151.14				\$151.14	\$241.50				\$241.50	\$90.36	59.8%	59.8%
22															
23	Increase							59.8%							
24	Distributon Revenue		<u>573,702</u>					916,694							
25															
26				Tariff	Other Deliv	Total			Tariff	Other Deli	Total				
27	Per kWh- All kWh			\$0.00056	\$0.00019	\$0.01657	\$0.01676		\$0.00057	\$0.00062	\$0.01564	\$0.01626			
28	Storm Recovery			\$0.00223	Other Delivery				\$0.00130						
29	Rate Case expense				Distribution				\$0.00042						
30	Electricity Consumption Tax			\$0.00055	Other Delivery				\$0.00055						
31	Transmission Charge			\$0.00900	Other Delivery				\$0.00900						
32	System Benefits Charge			\$0.00330	Other Delivery				\$0.00330						
33	Stranded Cost Recovery			\$0.00149	Other Delivery				\$0.00149						
34	REP			(\$0.00037)	Distribution				(\$0.00037)						
35	Default Service Reclass			<u>0.00000</u>	Distribution				<u>0.00000</u>						
36				<u>\$0.01620</u>					<u>\$0.01569</u>						
37	Commodity, Default Service (average)			\$0.03000					\$0.03000						