

Fitchburg Gas and Electric Light Company  
d/b/a Unitil  
Summary of Rate GD-2 and Rate GD-3 Alternative Demand Charge Rates

			Current Rate Structure			
			Illustrative Price Schedule A	Illustrative Price Schedule B	Illustrative Price Schedule C	Illustrative Price Schedule D
			100% reduction in demand chge	75% reduction in demand chge	50% reduction in demand chge	(full demand charge)
Load Factor			0%-5%	5%-10%	10%-15%	> 15%
			Base Distribution Rates (a)	Base Distribution Rates (b)	Base Distribution Rates (c)	Base Distribution Rates (d)
<b>Rate GD-2</b>						
(1)	Customer Charge		\$10.00	\$10.00	\$10.00	\$10.00
(2)	Energy-Based Rate	All kWh	\$0.05863	\$0.04978	\$0.04094	\$0.02326
(3)	Demand-Based Rate	kW	\$0.00	\$2.41	\$4.82	\$9.64
(4)	Reconciling Rates	All kWh	\$0.03069	\$0.03069	\$0.03069	\$0.03069
(5)	Transmission Energy	All kWh	\$0.02776	\$0.02776	\$0.02776	\$0.02776
(6)	Renewable Resource	All kWh	\$0.00050	\$0.00050	\$0.00050	\$0.00050
(7)	Energy Efficiency	All kWh	\$0.00250	\$0.00250	\$0.00250	\$0.00250
(8)	Smart Solar	All kWh	\$0.00250	\$0.00250	\$0.00250	\$0.00250
(9)	Total Delivery	All kWh	\$0.12258	\$0.11373	\$0.10489	\$0.08721
<b>Rate GD-3</b>						
(10)	Customer Charge		\$300.00	\$300.00	\$300.00	\$300.00
(11)	Energy-Based Rate	On Peak kWh	\$0.03911	\$0.03411	\$0.02911	\$0.01909
(12)	Energy-Based Rate	Off Peak kWh	\$0.02428	\$0.01928	\$0.01428	\$0.00426
(13)	Demand-Based Rate	kW	\$0.00	\$1.98	\$3.96	\$7.93
(14)	Reconciling Rates	All kWh	\$0.01386	\$0.01386	\$0.01386	\$0.01386
(15)	Transmission Energy	All kWh	\$0.02445	\$0.02445	\$0.02445	\$0.02445
(16)	Renewable Resource	All kWh	\$0.00050	\$0.00050	\$0.00050	\$0.00050
(17)	Energy Efficiency	All kWh	\$0.00250	\$0.00250	\$0.00250	\$0.00250
(18)	Smart Solar	All kWh	\$0.00098	\$0.00098	\$0.00098	\$0.00098
(19)	Total Delivery On Peak	On Peak kWh	\$0.08140	\$0.07640	\$0.07140	\$0.06138
(20)	Total Delivery Off Peak	Off Peak kWh	\$0.06657	\$0.06157	\$0.05657	\$0.04655
(21)	Assumed Basic Service Charge	All kWh	\$0.08718	\$0.08718	\$0.08718	\$0.08718
Source:						
(1) Page 2 Line (2)						
(2) Page 2 Line (3) + Line (5)						
(3) Page 2 Line (4)						
(4) - (8) <a href="https://unitil.com/sites/default/files/tariffs/E_dpu312_21_B_Summary_of_Rates_060121.pdf">https://unitil.com/sites/default/files/tariffs/E_dpu312_21_B_Summary_of_Rates_060121.pdf</a>						
(9) Sum of Lines (2), (4) - (8)						
(10) Page 3 Line (2)						
(11) Page 3 Line (3) + Line (7)						
(12) Page 3 Line (4) + Line (8)						
(13) Page 3 Line (6)						
(14) - (18) <a href="https://unitil.com/sites/default/files/tariffs/E_dpu312_21_B_Summary_of_Rates_060121.pdf">https://unitil.com/sites/default/files/tariffs/E_dpu312_21_B_Summary_of_Rates_060121.pdf</a>						
(19) Sum of Lines (2), (4) - (8)						
(20)						
(21) Line (22) - Average of Basic Service - June 2020 - May 2021						
(22)	12 Month Average of Basic Service		\$0.0872			

Fitchburg Gas and Electric Light Company  
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Rate GD-2 Demand/Energy Rate Design Based on Load Factor

				Illustrative Price Schedule A		Illustrative Price Schedule B		Illustrative Price Schedule C		Current Rate Structure	
				100% reduction in demand chge		75% reduction in demand chge		50% reduction in demand chge		Illustrative Price Schedule D	
Load Factor				0%-5%		5%-10%		10%-15%		G-2 (full demand charge)	
				> 15%							
				Base	Base	Base	Base	Base	Base	Base	Base
				Distribution	Distribution	Distribution	Distribution	Distribution	Distribution	Distribution	Distribution
				Rates	Revenue	Rates	Revenue	Rates	Revenue	Rates	Revenue
Billing Units				(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
(a)											
(1)	Revenue Allocation Target				<u>\$5,917,414</u>		<u>\$5,917,414</u>		<u>\$5,917,414</u>		<u>\$5,917,414</u>
(2)	Customer Charge	No. of bills	18,180	\$10.00	\$181,800	\$10.00	\$181,800	\$10.00	\$181,800	\$10.00	\$181,800
(3)	Energy-Based Rate	All kWh	97,822,380	\$0.02326	\$2,275,349	\$0.02326	\$2,275,349	\$0.02326	\$2,275,349	\$0.02326	\$2,275,349
(4)	Demand-Based Rate	kW	358,949	\$0	\$0	\$2.41	\$865,066	\$4.82	\$1,730,133	\$9.64	\$3,460,265
(5)	Converted Demand-to-Energy Rate	All kWh	97,822,380	\$0.03537	\$3,459,978	\$0.02652	\$2,594,250	\$0.01768	\$1,729,500		
(6)	Total Revenue				<u>\$5,917,127</u>		<u>\$5,916,465</u>		<u>\$5,916,782</u>		<u>\$5,917,414</u>
(7)	Difference to Target (Due to Rounding of Energy Charge)				(\$287)		(\$949)		(\$632)		\$0
	Customer Charge			\$10.00		\$10.00		\$10.00		\$10.00	
	Energy-Based Rate	All kWh		\$0.05863		\$0.04978		\$0.04094		\$0.02326	
	Demand-Based Rate	kW		\$0.00		\$2.41		\$4.82		\$9.64	

Fitchburg Gas and Electric Light Company  
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Rate GD-3 Demand/Energy Rate Design Based on Load Factor

				Illustrative Price Schedule A		Illustrative Price Schedule B		Illustrative Price Schedule C		Current Rate Structure	
				100% reduction in demand chge		75% reduction in demand chge		50% reduction in demand chge		Illustrative Price Schedule D	
Load Factor				0%-5%		5%-10%		10%-15%		> 15%	
				Base Distribution Rates	Base Distribution Revenue	Base Distribution Rates	Base Distribution Revenue	Base Distribution Rates	Base Distribution Revenue	Base Distribution Rates	Base Distribution Revenue
Billing Units (a)				(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
(1)	Revenue Allocation Target				<u>\$3,593,822</u>		<u>\$3,593,822</u>		<u>\$3,593,822</u>		<u>\$3,593,822</u>
(2)	Customer Charge	No. of bills	330	\$300.00	\$99,000	\$300.00	\$99,000	\$300.00	\$99,000	\$300.00	\$99,000
(3)	Peak Energy-Based Rate	On Peak kWh	45,222,691	\$0.01909	\$863,301	\$0.01909	\$863,301	\$0.01909	\$863,301	\$0.01909	\$863,301
(4)	Off Peak Energy-Based Rate	Off Peak kWh	<u>71,046,457</u>	\$0.00426	<u>\$302,658</u>	\$0.00426	<u>\$302,658</u>	\$0.00426	<u>\$302,658</u>	\$0.00426	<u>\$302,658</u>
(5)	Energy-Based Revenue		116,269,148		\$1,165,959		\$1,165,959		\$1,165,959		\$1,165,959
(6)	Demand kW	On Peak kW	293,678	\$0.00	\$0	\$1.98	\$581,481	\$3.96	\$1,162,963	\$7.93	\$2,328,863
(7)	Converted Demand-to-Energy Rate	On Peak kWh	45,222,691	\$0.02002	\$905,358	\$0.01502	\$679,245	\$0.01002	\$453,131		
(8)	Converted Demand-to-Energy Rate	Off Peak kWh	<u>71,046,457</u>	\$0.02002	\$1,422,350	\$0.01502	\$1,067,118	\$0.01002	\$711,885		
(9)	Energy-Based Revenue	All kWh	116,269,148								
(10)	Total Revenue				<u>\$3,592,667</u>		<u>\$3,592,803</u>		<u>\$3,592,938</u>		<u>\$3,593,822</u>
(11)	Difference to Target				(\$1,155)		(\$1,019)		(\$884)		\$0
	Customer Charge			\$300.00		\$300.00		\$300.00		\$300.00	
	Energy-Based Rate	On Peak kWh		\$0.03911		\$0.03411		\$0.02911		\$0.01909	
	Energy-Based Rate	Off Peak kWh		\$0.02428		\$0.01928		\$0.01428		\$0.00426	
	Demand-Based Rate	kW		\$0.00		\$1.98		\$3.96		\$7.93	