Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Summary of Charges for Wholesale Load on the BHD System
Worksheet 1

Implemented Charges Based on 2022 Data and Certain Forecasts

Line		a	b	c = b / 12	d = b / 52	e = b / 365	f = b / 8760	
			Rates					
			Annual	Monthly	Weekly	Daily	Hourly	
		Amount	$/MW/Yr	$/MW/Mo	$/MW/Wk	$/MW/Day	$/MW/Hr	Reference(s)
1	**Scheduling, System Control and Dispatch Service**							
2	Scheduling Revenue Requirement	$ 99,934						WS 5 at 5a
3	Scheduling, System Control and Dispatch Service		$ 389.36	$ 32.45	$ 7.49	$ 1.07	$ 0.04445	3b = 2a / WS 4 at 13f
4								
5	**Charges For Wholesale Customers Interconnected on the BHD System - Non-PTF Service**							
6	Non-PTF Revenue Requirement	$ 24,677,717						VP Attachment 2 - Att F - App B - Att 2 - WS 1 Line 9 Less Line 3; Settlement Docket No. ER15-1434 5/1/23
7	For Services Below:		$ 96,146.95	$ 8,012.25	$ 1,848.98	$ 263.42	$ 10.97568	7b = 6a / WS 4 at 13f
8	Long-Term Firm Point-To-Point Transmission Service							
9	Short-Term Firm Point-To-Point Transmission Service							
10	Non-Firm Point-To-Point Transmission Service							
11	Network Integration Transmission Service							
12								
13	**Charges For Wholesale Customers Interconnected on the BHD System - PTF Service**							
14	PTF Revenue Requirement	$ -						n/a
15	For Services Below:		$ -	$ -	$ -	$ -	$ -	15b = 14a / WS 4 at 13d
16	Long-Term Firm Point-To-Point Transmission Service							
17	Short-Term Firm Point-To-Point Transmission Service							
18	Non-Firm Point-To-Point Transmission Service							
19	Network Integration Transmission Service							
20								
21	**Charges For Wholesale Customers Interconnected on the BHD System - Unit Costs of Acting as Customer's Agent for Service**							
22	RNS & ISO New England Costs	$ 42,273,511						WS 7 Line 6
23	For Services Below:		$ 169,319.80	$ 14,109.98	$ 3,256.15	$ 463.89	$ 19.32874	23b = 22a / WS4 at 13e
24	Long-Term Firm Point-To-Point Transmission Service							
25	Short-Term Firm Point-To-Point Transmission Service							
26	Non-Firm Point-To-Point Transmission Service							
27	Network Integration Transmission Service							

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Summary of Charges for Whheeling Load on the BHD System
Worksheet 2

Implemented Charges Based on 2022 Data and Certain Forecasts

Line		a	b	c = b / 12	d = b / 52	e = b / 365	f = b / 8760	
			Rates					
			Annual	Monthly	Weekly	Daily	Hourly	
		Amount	$/MW/Yr	$/MW/Mo	$/MW/Wk	$/MW/Day	$/MW/Hr	Reference(s)
1	**Scheduling, System Control and Dispatch Service**							
2	Scheduling Revenue Requirement	$ 99,934						WS 5 at 5a
3	Scheduling, System Control and Dispatch Service		$ 389.36	$ 32.45	$ 7.49	$ 1.07	$ 0.04445	3b = 2a / WS 4 at 13f
4								
5	**Charges For Wheeling Off the the BHD System**							
6	Non-PTF Revenue Requirement	$ 24,677,717						VP Attachment 2 - Att F - App B - Att 2 - WS 1 Line 9 Less Line 3; Settlement Docket No. ER15-1434 5/1/23
7	For Services Below:		$ 96,146.95	$ 8,012.25	$ 1,848.98	$ 263.42	$ 10.97568	7b = 6a / WS 4 at 13f
8	Long-Term Firm Point-To-Point Transmission Service							
9	Short-Term Firm Point-To-Point Transmission Service							
10	Non-Firm Point-To-Point Transmission Service							
11	Network Integration Transmission Service							

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Summary of Charges for Whheeling Load on the BHD System
Worksheet 3

Implemented Charges Based on 2022 Data and Certain Forecasts

		a	b	c	d	e	f	
				= b / 12	= b / 52	= b / 365	= b / 8760	
				Rates				
			Annual	Monthly	Weekly	Daily	Hourly	
Line		Amount	$/MW/Yr	$/MW/Mo	$/MW/Wk	$/MW/Day	$/MW/Hr	Reference(s)
1	**Scheduling, System Control and Dispatch Service**							
2	Scheduling Revenue Requirement	$ 99,934						WS 5 at 5a
3	Scheduling, System Control and Dispatch Service Rate		$ 389.36	$ 32.45	$ 7.49	$ 1.07	$ 0.04445	3b = 2a / WS 4 at 13f
4								
5	**Charges For Retail Customers Interconnected on the BHD System - Non PTF Service**							
6	Non-PTF Revenue Requirement	$ 28,502,587						VP Attachment 2 - Att F - App B - Att 2 - WS 1 Line 9
7	For Services Below:		$ 111,049.04	$ 9,254.09	$ 2,135.56	$ 304.24	$ 12.67683	7b = 6a / WS 4 at 13f
8	Long-Term Firm Point-To-Point Transmission Service							
9	Short-Term Firm Point-To-Point Transmission Service							
10	Non-Firm Point-To-Point Transmission Service							
11	Network Integration Transmission Service							
12								
13	**Charges For Retail Customers Interconnected on the BHD System - PTF Service**							
14	PTF Revenue Requirement	$ -						n/a
15	For Services Below:		$ -	$ -	$ -	$ -	$ -	15b = 14a / WS 4 at 13d
16	Long-Term Firm Point-To-Point Transmission Service							
17	Short-Term Firm Point-To-Point Transmission Service							
18	Non-Firm Point-To-Point Transmission Service							
19	Network Integration Transmission Service							
20								
21	**Charges For Retail Customers Interconnected on the BHD System - Unit Costs of Acting as Customer's Agent for Service**							
22	RNS & ISO New England Costs	$ 42,273,511						WS 7 Line 6
23	For Services Below:		$ 169,319.80	$ 14,109.98	$ 3,256.15	$ 463.89	$ 19.32874	23b = 22a / WS4 at 13e
24	Long-Term Firm Point-To-Point Transmission Service							
25	Short-Term Firm Point-To-Point Transmission Service							
26	Non-Firm Point-To-Point Transmission Service							
27	Network Integration Transmission Service							

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Monthly Peak Load Information
Worksheet 4
Implemented Charges Based on 2022 Data and Certain Forecasts

Line	Month	a Total System Load MW	b Firm P-to-P Reserved (Note 1) MW	c Denominator Wheeling Out Load (Note 2) MW	d = a+ b Firm Load Excl. Wheeling Out Service MW	e (= a) Firm Load for which EM provides ISO Services MW	f = c + d Including Wheeling Out Load MW	Reference(s)
1	January	271	5	0	276	271	276	FF1 at 401b:29d
2	February	289	5	0	294	289	294	FF1 at 401b:29d
3	March	243	5	0	248	243	248	FF1 at 401b:29d
4	April	210	5	0	215	210	215	FF1 at 401b:29d
5	May	199	8	0	207	199	207	FF1 at 401b:29d
6	June	292	8	0	300	292	300	FF1 at 401b:29d
7	July	268	8	0	276	268	276	FF1 at 401b:29d
8	August	288	8	0	296	288	296	FF1 at 401b:29d
9	September	238	8	0	246	238	246	FF1 at 401b:29d
10	October	213	8	0	221	213	221	FF1 at 401b:29d
11	November	238	8	0	246	238	246	FF1 at 401b:29d
12	December	247	8	0	255	247	255	FF1 at 401b:29d
13	Average 12-CP	250	7	0	257	250	257	Average Lines 1:12

Notes

1 Column b includes LT Firm PTP reservations for CMP. Source: FF1 at 329:h.
2 Column c includes any Contingent LT Firm loads. Source: Bangor Hydro Electric Co., Letter Order, Docket No. ER09-1103-000 (Jun. 18, 2009).

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Scheduling, System Control and Dispatch Service
Worksheet 5
Implemented Charges Based on 2022 Data and Certain Forecasts

Line		a Amount	Reference(s)
1	System Control and Load Dispatching (Retail & Wholesale)	$ 1,118,401	FF1 at 321:85b, Company Records
2	Less: NEPOOL Schedule 1 Credit and Schedule 1 revenues associated with short-term and non-firm transactions and penalties for unauthorized use of Schedule 1 service	$ 887,834	Note 1
3	Scheduling, System Control & Dispatching Service	$ 230,567	Line 1 - Line 2
4	True-Up Scheduling, System Control & Dispatching Service	$ (130,633)	WS 13 Line 32
5	Scheduling, System Control & Dispatching Service for Charges	$ 99,934	Line 3 + Line 4

Notes

1 ISO Invoice (annual amount) + Exhibit: Short-term & Non-firm Sch 1 Revenues

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Retail Conversion Factors -- Columns 5, 7 & 8, 10 *
Worksheet 6
Implemented Charges Based on 2022 Data and Certain Forecasts

		a	b	c	d = c / a	e = c / b	
Line	Customer Class	Billed kWh FERC Form 1	Billing kW	12-CP kW @ Meter	kW/kWh Conversion Factor	12CP to Billing kW conversion Factor	Reference(s)
1	Residential Service	682,832,522		100,783	0.00015		2022 Actual
2	General Service	164,255,832		23,889	0.00015		2022 Actual
3	Medium & Large Primary, Secondary & Subtransmission	604,567,653	140,601	96,760	0.00016	0.68819	2022 Actual
4	Large Power - Transmission Voltage	6,223,189	9,660	790	0.00013	0.08182	2022 Actual
5	High Tension D-5/F-2	-					2022 Actual
6	Lighting	6,218,918		451	0.00007		2022 Actual
7	Competitive Power	170,560	-	23	0.00013	0	2022 Actual
8	Coincident Peak - Secondary Voltage	-					2022 Actual
9	Coincident Peak - Primary Voltage	-	-	-	-		2022 Actual
10	Coincident Peak - Subtransmission Voltage	21,063,324	2,026	2,026	-		2022 Actual
11	Coincident Peak - Transmission Voltage	10,609,916	361	361	-		2022 Actual
12	Total	1,495,941,913	152,648	225,084			

		a	b	c	d	e	f = d / e	g = c / b	h	I = h / g	
Line		Billed kWh FERC Form 1 (Note 1)	Billing (kW)	12-CP kW @ Meter	kW/kWh Conversion Factor	Loss Factor	Loss Adjusted kW/kWh Conversion Factor	12CP to Billing kW Conversion Factor	Loss Factor	Loss Adjusted 12 CP to Billing kW Conversion Factor	Reference(s)
13	Residential Service	682,832,522		100,783	0.00015	0.91203	0.00016				2022 Actual
14	General Service	164,255,832		23,889	0.00015	0.91203	0.00016				2022 Actual
15	Medium Power Secondary	362,956,892	93,181	59,273	0.00016	0.91203		0.68819	0.89372	0.77003	2022 Actual
16	Medium Power Primary	43,402,218	10,273	7,149	0.00016	0.94184		0.68819	0.92536	0.74370	2022 Actual
17	Large Power - Primary Voltage	120,641,783	22,340	15,959	0.00016	0.94184		0.68819	0.92536	0.74370	2022 Actual
18	Large Power - Subtransmission Voltage	77,566,760	14,807	14,379	0.00016	0.97158		0.68819	0.96077	0.71629	2022 Actual
19	Large Power - Transmission Voltage	6,223,189	9,660	790	0.00013	0.98236		0.08182	0.98465	0.08309	2022 Actual
20	High Tension D-5/F-2	-		-		0.98236	0.00000				2022 Actual
21	Street & Area Lighting	4,893,998		310	0.00007	0.91203	0.00008				2022 Actual
22	Municipal Lighting	1,324,920		141	0.00007	0.91203	0.00008				2022 Actual
23	Competitive Power Secondary Voltage	-		-	0.00013	0.91203	0.00014	0.00000	0.89372	0.00000	2022 Actual
24	Competitive Power Primary Voltage	170,560		23	0.00013	0.94184	0.00014	0.00000	0.92536	0.00000	2022 Actual
25	Competitive Power Subtransmission Voltage	-		-	0.00013	0.97158	0.00014	0.00000	0.96077	0.00000	2022 Actual
26	Coincident Peak - Secondary Voltage	-		-	0.00016	0.91203		1.00000	0.89372	1.11892	2022 Actual
27	Coincident Peak - Primary Voltage	-		-	0.00016	0.94184		1.00000	0.92536	1.08066	2022 Actual
28	Coincident Peak - Subtransmission Voltage	21,063,324	2,026	2,026	-	0.97158		1.00000	0.96077	1.04083	2022 Actual
29	Coincident Peak - Transmission Voltage	10,609,916	361	361	-	0.98236		1.00000	0.98465	1.01559	2022 Actual
30	Total	1,495,941,913	152,648	225,084							

Notes

* Versant Power will supply losses to retail customers taking standard offer service. Customers not taking Versant Power standard offer service (or those customers' energy suppliers) will be responsible for losses.

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
RNS Charges
Worksheet 7
Implemented Charges Based on 2022 Data and Certain Forecasts

Line			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Reference
1	BHD RNS & ISO Charges															
2	2022	actual	$ 3,396,896	$ 3,583,423	$ 3,053,879	$ 2,659,409	$ 2,497,134	$ 4,264,474	$ 3,339,943	$ 3,619,128	$ 2,988,018	$ 3,577,334	$ 2,998,271	$ 3,325,025	$ 39,302,934	WS 8 Line 32
3	2023	forecast	$ 3,171,301	$ 3,621,881	$ 2,944,568	$ 2,555,258	$ 2,510,938	$ 3,052,810	$ 3,327,666	$ 3,461,006	$ 2,779,024	$ 2,659,755	$ 2,915,501	$ 3,094,734	$ 36,094,442	Company Records
4	2024	forecast	$ 3,322,554	$ 3,332,451	$ 3,191,200	$ 2,769,137	$ 2,722,052	$ 3,305,721	$ 3,605,214	$ 3,748,928	$ 3,009,365	$ 2,879,175	$ 3,155,636	$ 3,358,705	$ 38,400,139	Company Records
5	2022 True Up														3,873,372	WS 12 Line 32
6	2024 Charges for Rates														42,273,511	Line 4 + Line 5

Versant Power (f/k/a Emera Maine) - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2023 through Dec 31, 2023
Monthly RNS ISO Invoices for 2021
Worksheet 8
Implemented Charges Based on 2022 Data and Certain Forecasts

Line		2022 Jan	2022 Feb	2022 Mar	2022 Apr	2022 May	2022 Jun	2022 Jul	2022 Aug	2022 Sep	2022 Oct	2022 Nov	2022 Dec	Total
1	ISO Schedule 1 RNS Charge	$ 51,928	$ 54,729	$ 46,490	$ 40,270	$ 38,152	$ 65,346	$ 51,320	$ 55,582	$ 45,668	$ 54,461	$ 45,627	$ 52,036	$ 601,609
2	ISO Schedule 5 RNS Charge	$ 1,993	$ 2,101	$ 1,784	$ 1,546	$ 1,464	$ 2,508	$ 1,970	$ 2,133	$ 1,753	$ 2,090	$ 1,751	$ 1,997	$ 23,092
3	ISO Schedule 1 TOUT Charge	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4	OATT Schedule 1 RNS Charge	$ 42,170	$ 44,444	$ 37,754	$ 32,702	$ 30,982	$ 49,731	$ 39,057	$ 42,301	$ 34,755	$ 41,447	$ 34,724	$ 39,602	$ 469,670
5	OATT Schedule 9 RNS Charge	$ 3,222,206	$ 3,395,980	$ 2,884,771	$ 2,498,815	$ 2,367,339	$ 4,054,764	$ 3,184,477	$ 3,448,939	$ 2,833,716	$ 3,379,335	$ 2,831,181	$ 3,228,869	$ 37,330,392
6	OATT Schedule 1 TOUT Charge	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
7	OATT Schedule 8 TOUT Charge	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
8	**Charges**	$ 3,318,297	$ 3,497,254	$ 2,970,799	$ 2,573,334	$ 2,437,937	$ 4,172,349	$ 3,276,824	$ 3,548,956	$ 2,915,891	$ 3,477,333	$ 2,913,284	$ 3,322,504	$ 38,424,763
9														
10	ISO Schedule 1 TOUT Payment	$ (445)	$ (458)	$ (991)	$ (1,070)	$ (764)	$ (1,969)	$ (1,344)	$ (1,117)	$ (1,164)	$ (1,317)	$ (1,162)	$ (1,199)	$ (13,000)
11	OATT Schedule 1 RNS Payment	$ (64,641)	$ (60,331)	$ (54,372)	$ (46,956)	$ (63,774)	$ (59,858)	$ (73,924)	$ (75,467)	$ (53,978)	$ (44,182)	$ (51,217)	$ (53,185)	$ (701,884)
12	OATT Schedule 9 RNS Payment	$ (3,373,635)	$ (3,148,712)	$ (2,837,843)	$ (2,450,651)	$ (3,328,408)	$ (3,416,194)	$ (4,218,940)	$ (4,307,107)	$ (3,080,766)	$ (2,521,758)	$ (2,923,143)	$ (3,035,395)	$ (38,642,551)
13	OATT Schedule 1 TOUT Payment	$ (2,456)	$ (2,451)	$ (5,266)	$ (5,220)	$ (4,345)	$ (4,767)	$ (4,711)	$ (4,062)	$ (4,009)	$ (3,924)	$ (5,205)	$ (3,918)	$ (50,334)
14	OATT Schedule 8 TOUT Payment	$ (95,132)	$ (97,108)	$ (126,270)	$ (88,935)	$ (113,194)	$ (224,095)	$ (254,564)	$ (92,089)	$ (104,173)	$ (138,778)	$ (111,653)	$ (161,347)	$ (1,607,339)
15	**Credits**	$ (3,536,308)	$ (3,309,059)	$ (3,024,741)	$ (2,592,833)	$ (3,510,484)	$ (3,706,884)	$ (4,553,482)	$ (4,479,844)	$ (3,244,089)	$ (2,709,958)	$ (3,092,381)	$ (3,255,044)	$ (41,015,107)
16														
17	Non Transmission Expenses	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
18	Transmission Expenses	$ 78,599	$ 86,169	$ 83,080	$ 86,075	$ 59,197	$ 92,125	$ 63,119	$ 70,172	$ 72,126	$ 100,001	$ 84,987	$ 2,521	$ 878,171
19	**NEPOOL Expenses**	$ 78,599	$ 86,169	$ 83,080	$ 86,075	$ 59,197	$ 92,125	$ 63,119	$ 70,172	$ 72,126	$ 100,001	$ 84,987	$ 2,521	$ 878,171
20														
21	ISO Schedule 1 TOUT Adj	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
22	OATT Schedule1 RNS Adj	$ 22	$ (235)	$ (152)	$ (305)	$ (194)	$ (637)	$ (146)	$ (630)	$ (203)	$ (34)	$ (23)	$ 92	$ (2,443)
23	OATT Schedule 9 RNS Adj	$ 1,164	$ (12,308)	$ (7,963)	$ (15,931)	$ (10,143)	$ (33,239)	$ (7,616)	$ (32,871)	$ (11,570)	$ (1,918)	$ (1,285)	$ 5,271	$ (128,410)
24	OATT Schedule 1 TOUT Adj	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
25	OATT Schedule 8 TOUT Adj	$ -	$ -	$ -	$ 363	$ 366	$ 471	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,200
26	Other Adjustments	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
27	**Adjustments**	$ 1,186	$ (12,543)	$ (8,115)	$ (15,874)	$ (9,971)	$ (33,404)	$ (7,761)	$ (33,501)	$ (11,773)	$ (1,951)	$ (1,307)	$ 5,363	$ (129,653)
28														
29	**Reconciliation**													
30	Charges - TOTAL	$ 3,396,896	$ 3,583,423	$ 3,053,879	$ 2,659,409	$ 2,497,134	$ 4,264,474	$ 3,339,943	$ 3,619,128	$ 2,988,018	$ 3,577,334	$ 2,998,271	$ 3,325,025	$ 39,302,934
31	(less) Non-Transmission Expense	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
32	Charges to WS 7	$ 3,396,896	$ 3,583,423	$ 3,053,879	$ 2,659,409	$ 2,497,134	$ 4,264,474	$ 3,339,943	$ 3,619,128	$ 2,988,018	$ 3,577,334	$ 2,998,271	$ 3,325,025	$ 39,302,934
33														
34	Credits to Att F, App A, ATT 2	$ (3,470,503)	$ (3,261,036)	$ (2,978,332)	$ (2,561,446)	$ (3,456,488)	$ (3,679,793)	$ (4,487,174)	$ (4,437,248)	$ (3,201,681)	$ (2,667,694)	$ (3,042,449)	$ (3,196,589)	$ (40,440,433)
35	Credits to Schedule 21-VP WS 5	$ (64,619)	$ (60,566)	$ (54,524)	$ (47,261)	$ (63,968)	$ (60,495)	$ (74,070)	$ (76,097)	$ (54,180)	$ (44,216)	$ (51,240)	$ (53,092)	$ (704,327)

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Short-Term & Non-Firm Schedule 1 Revenues for 2022
Worksheet 9
Implemented Charges Based on 2022 Data and Certain Forecasts

Line	Local Point-to-Point Customers		Sch 1 $
1	Stored Solar	$	9,909
2	Brookfield Energy	$	127,724
3	Black Bear Hydro Partners	$	32,210
4	Black Bear SO, LLC	$	5,856
5	CMP/Hermon	$	7,808
6			
7	**Total**	**$**	**183,507**

Schedule 1 revenues associated with short-term and non-firm transactions and penalties for unauthorized use of Schedule 1 service.

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Conversion of Prospective Rates for Application to Retail Classes
Worksheet 10
Implemented Charges Based on 2022 Data and Certain Forecasts

Customer Class	Loss Adjusted kW/kWh Conversion Factor	Loss Adjusted 12 CP to Billing kW Conversion Factor	LNS OATT Annual Rate $/MW/yr	Rates Applicable to Retail: Demand Metered Customers ($/kW/mo)	Rates Applicable to Retail: Non-Demand Metered Customers ($/kWh)
(1)	(3)	(4)	(5)	(6)	(7)
	Exhibit 13	Exhibit 13	Exhibit 1c	[col. (4) x col. (5)] / 12 / 1000	col. (3) x col. (5) / 1000
Retail Customers -- Non PTF Service	monthly kwh	monthly kw	mo rev kw	mo rev	annual
Residential Service	0.00016		$ 111,049.04		$ 0.01797
General Service	0.00016		$ 111,049.04		$ 0.01771
Medium Power Secondary		**0.77003**	$ 111,049.04	$ 7.13	$ -
Medium Power Primary		**0.74370**	$ 111,049.04	$ 6.88	$ -
Large Power - Primary Voltage		**0.74370**	$ 111,049.04	$ 6.88	$ -
Large Power - Subtransmission Voltage		**0.71629**	$ 111,049.04	$ 6.63	$ -
Large Power - Transmission Voltage		**0.08309**	$ 111,049.04	$ 0.77	$ -
High Tension D-5/F-2	0.00000		$ 111,049.04		
Street & Area Lighting	0.00008		$ 111,049.04		$ 0.00883
Municipal Lighting	0.00008		$ 111,049.04		$ 0.00883
Competitive Power Secondary Voltage	0.00014	**0.00000**	$ 111,049.04	$ -	$ 0.01608
Competitive Power Primary Voltage	0.00014	**0.00000**	$ 111,049.04	$ -	$ 0.01557
Competitive Power Subtransmission Voltage	0.00014	**0.00000**	$ 111,049.04	$ -	$ 0.01509
Coincident Peak - Secondary Voltage		**1.11892**	$ 111,049.04	$ 10.35	
Coincident Peak - Primary Voltage		**1.08066**	$ 111,049.04	$ 10.00	
Coincident Peak - Subtransmission Voltage		**1.04083**	$ 111,049.04	$ 9.63	
Coincident Peak - Transmission Voltage		**1.01559**	$ 111,049.04	$ 9.40	
Retail Customers -- PTF Service	monthly kwh	monthly kw	mo rev kw	mo rev	annual
Residential Service	0.00016		$ -		$ -
General Service	0.00016		$ -		$ -
Medium Power Secondary		**0.77003**	$ -	$ -	$ -
Medium Power Primary		**0.74370**	$ -	$ -	$ -
Large Power - Primary Voltage		**0.74370**	$ -	$ -	$ -
Large Power - Subtransmission Voltage		**0.71629**	$ -	$ -	$ -
Large Power - Transmission Voltage		**0.08309**	$ -	$ -	$ -
High Tension D-5/F-2	0.00000		$ -		
Street & Area Lighting	0.00008		$ -		$ -
Municipal Lighting	0.00008		$ -		$ -
Competitive Power Secondary Voltage	0.00014	**0.00000**	$ -	$ -	$ -
Competitive Power Primary Voltage	0.00014	**0.00000**	$ -	$ -	$ -
Competitive Power Subtransmission Voltage	0.00014	**0.00000**	$ -	$ -	$ -
Coincident Peak - Secondary Voltage		**1.11892**	$ -	$ -	
Coincident Peak - Primary Voltage		**1.08066**	$ -	$ -	
Coincident Peak - Subtransmission Voltage		**1.04083**	$ -	$ -	
Coincident Peak - Transmission Voltage		**1.01559**	$ -	$ -	
Retail Customers -- BHE's Unit Costs of Acting As Customer's Agent	monthly kwh	monthly kw	mo rev kw	mo rev	annual
Residential Service	0.00016		$ 169,319.80		$ 0.02740
General Service	0.00016		$ 169,319.80		$ 0.02700
Medium Power Secondary		**0.77003**	$ 169,319.80	$ 10.87	$ -
Medium Power Primary		**0.74370**	$ 169,319.80	$ 10.49	$ -
Large Power - Primary Voltage		**0.74370**	$ 169,319.80	$ 10.49	$ -
Large Power - Subtransmission Voltage		**0.71629**	$ 169,319.80	$ 10.11	$ -
Large Power - Transmission Voltage		**0.08309**	$ 169,319.80	$ 1.17	$ -
High Tension D-5/F-2	0.00000		$ 169,319.80		
Street & Area Lighting	0.00008		$ 169,319.80		$ 0.01346
Municipal Lighting	0.00008		$ 169,319.80		$ 0.01346
Competitive Power Secondary Voltage	0.00014	**0.00000**	$ 169,319.80	$ -	$ 0.02451
Competitive Power Primary Voltage	0.00014	**0.00000**	$ 169,319.80	$ -	$ 0.02374
Competitive Power Subtransmission Voltage	0.00014	**0.00000**	$ 169,319.80	$ -	$ 0.02301
Coincident Peak - Secondary Voltage		**1.11892**	$ 169,319.80	$ 15.79	
Coincident Peak - Primary Voltage		**1.08066**	$ 169,319.80	$ 15.25	
Coincident Peak - Subtransmission Voltage		**1.04083**	$ 169,319.80	$ 14.69	
Coincident Peak - Transmission Voltage		**1.01559**	$ 169,319.80	$ 14.33	
Retail Customers -- Schedule 1	monthly kwh	monthly kw	mo rev kw	mo rev	annual
Residential Service	0.00016		$ 389.36		$ 0.00006
General Service	0.00016		$ 389.36		$ 0.00006
Medium Power Secondary		**0.77003**	$ 389.36	$ 0.02	$ -
Medium Power Primary		**0.74370**	$ 389.36	$ 0.02	$ -
Large Power - Primary Voltage		**0.74370**	$ 389.36	$ 0.02	$ -
Large Power - Subtransmission Voltage		**0.71629**	$ 389.36	$ 0.02	$ -
Large Power - Transmission Voltage		**0.08309**	$ 389.36	$ 0.00	$ -
High Tension D-5/F-2	0.00000		$ 389.36		
Street & Area Lighting	0.00008		$ 389.36		$ 0.00003
Municipal Lighting	0.00008		$ 389.36		$ 0.00003
Competitive Power Secondary Voltage	0.00014	**0.00000**	$ 389.36	$ -	$ 0.00006
Competitive Power Primary Voltage	0.00014	**0.00000**	$ 389.36	$ -	$ 0.00005
Competitive Power Subtransmission Voltage	0.00014	**0.00000**	$ 389.36	$ -	$ 0.00005
Coincident Peak - Secondary Voltage		**1.11892**	$ 389.36	$ 0.04	
Coincident Peak - Primary Voltage		**1.08066**	$ 389.36	$ 0.04	
Coincident Peak - Subtransmission Voltage		**1.04083**	$ 389.36	$ 0.03	
Coincident Peak - Transmission Voltage		**1.01559**	$ 389.36	$ 0.03	
Retail Customers -- (Refunds) and Surcharges	monthly kwh	monthly kw	mo rev kw	mo rev	annual
Residential Service	0.00016				$ -
General Service	0.00016		$ -		$ -
Medium Power Secondary		0.77003	$ -	$ -	
Medium Power Primary		0.74370	$ -	$ -	
Large Power - Primary Voltage		0.74370	$ -	$ -	
Large Power - Subtransmission Voltage		0.71629	$ -	$ -	
Large Power - Transmission Voltage		0.08309	$ -	$ -	
High Tension D-5/F-2			$ -		
Street & Area Lighting	0.00008		$ -		$ -
Municipal Lighting	0.00008		$ -		$ -
Competitive Power Secondary Voltage	0.00014	0.00000	$ -	$ -	$ -
Competitive Power Primary Voltage	0.00014	0.00000	$ -	$ -	$ -
Competitive Power Subtransmission Voltage	0.00014	0.00000	$ -	$ -	$ -
Coincident Peak - Secondary Voltage		1.11892	$ -	$ -	
Coincident Peak - Primary Voltage		1.08066	$ -	$ -	
Coincident Peak - Subtransmission Voltage		1.04083	$ -	$ -	
Coincident Peak - Transmission Voltage		1.01559	$ -	$ -	
Total Retail Charges	monthly kwh	monthly kw	mo rev kw	mo rev	annual
Residential Service			$ 280,758.20	$ -	$ 0.04544
General Service			$ 280,758.20	$ -	$ 0.04477
Medium Power Secondary			$ 280,758.20	$ 18.02	$ -
Medium Power Primary			$ 280,758.20	$ 17.40	$ -
Large Power - Primary Voltage			$ 280,758.20	$ 17.40	$ -
Large Power - Subtransmission Voltage			$ 280,758.20	$ 16.76	$ -
Large Power - Transmission Voltage			$ 280,758.20	$ 1.94	$ -
High Tension D-5/F-2			$ 280,758.20	$ -	$ -
Street & Area Lighting			$ 280,758.20	$ -	$ 0.02232
Municipal Lighting			$ 280,758.20	$ -	$ 0.02232
Competitive Power Secondary Voltage			$ 280,758.20	$ -	$ 0.04064
Competitive Power Primary Voltage			$ 280,758.20	$ -	$ 0.03936
Competitive Power Subtransmission Voltage			$ 280,758.20	$ -	$ 0.03815
Coincident Peak - Secondary Voltage			$ 280,758.20	$ 26.18	$ -
Coincident Peak - Primary Voltage			$ 280,758.20	$ 25.28	$ -
Coincident Peak - Subtransmission Voltage			$ 280,758.20	$ 24.35	$ -
Coincident Peak - Transmission Voltage			$ 280,758.20	$ 23.76	$ -

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Reconciliation of FERC Form 1 Data and BHD 2021 OATT Change Filing to Worksheet 6
Worksheet 11
Implemented Charges Based on 2022 Data and Certain Forecasts

Line		Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	TOTAL	Reference(s)
1	**RESIDENTIAL**	72,989,537	67,189,610	70,540,903	51,527,491	49,487,257	46,830,508	52,464,071	61,680,536	56,421,897	47,609,560	44,777,735	61,313,417	**682,832,522**	2022 Actual
2	**SM COMMERCIAL**	16,104,597	15,369,883	16,399,220	12,698,603	12,418,469	12,132,961	13,014,545	15,142,857	14,287,910	11,961,245	11,010,472	13,715,071	**164,255,832**	2022 Actual
3	MEDIUM														
a	*Medium Power Secondary*	31,077,581	28,159,155	31,286,345	27,129,101	27,930,918	29,507,491	31,937,415	34,996,546	34,037,158	29,396,861	27,304,230	30,194,092	362,956,892	2022 Actual
b	*Competitive D-1*													0	2022 Actual
c	*Medium Power Primary*	3,956,111	3,703,657	4,021,283	3,222,356	3,296,403	3,224,925	3,450,587	3,979,684	3,876,561	3,645,328	3,154,254	3,871,069	43,402,218	2022 Actual
d	*Competitive D-2*	14,080	12,800	14,400	14,080	13,440	15,680	15,040	14,720	13,760	15,040	13,440	14,080	170,560	2022 Actual
	TOTAL MEDIUM	**35,047,772**	**31,875,612**	**35,322,028**	**30,365,537**	**31,240,761**	**32,748,096**	**35,403,042**	**38,990,950**	**37,927,479**	**33,057,229**	**30,471,924**	**34,079,241**	**406,529,670**	
4	LARGE														
a	*Primary Power Large D-4*	9,446,222	9,757,340	9,174,465	9,861,883	9,039,359	9,873,634	9,605,327	11,246,581	12,571,156	10,389,458	9,817,278	9,859,080	120,641,783	2022 Actual
b	*Competitive D-4*													0	2022 Actual
c	*Trans Power Subtrans Voltage*	5,602,857	6,366,960	5,938,711	6,665,390	(1,581,674)	10,984,574	6,382,419	7,852,768	11,218,512	6,746,333	6,259,033	5,130,877	77,566,760	2022 Actual
d	*Trans Power Trans Voltage*	546,476	418,475	388,415	247,026	436,401	433,234	631,150	370,842	921,108	716,904	884,229	228,929	6,223,189	2022 Actual
e	*Concident Peak - Primary Voltage*													0	2022 Actual
f	*Coincident Peak Trans Power Subtrans Voltage*	451,681	806,280	852,092	2,469,571	(6,918,349)	16,408,509	3,973,791	696,004	254,336	254,155	1,460,750	354,504	21,063,324	2022 Actual
g	*Coincident Peak Trans Power Trans Voltage*	978,309	722,129	669,609	720,189	698,801	654,272	1,119,621	1,073,921	1,313,815	768,908	1,099,342	791,000	10,609,916	2022 Actual
	TOTAL LARGE	**17,025,545**	**18,071,184**	**17,023,292**	**19,964,059**	**1,674,538**	**38,354,223**	**21,712,308**	**21,240,116**	**26,278,927**	**18,875,758**	**19,520,632**	**16,364,390**	**236,104,972**	
5	LIGHTS														
a	*Street & Area Lighting*	407,863	381,798	458,472	379,645	414,124	407,932	407,502	433,002	407,286	406,492	383,376	406,505	4,893,998	2022 Actual
b	*Municipal Lighting (Energy)*	110,410	11,686	209,134	110,410	110,410	110,410	110,410	110,410	110,410	110,410	110,410	110,410	1,324,920	2022 Actual
	TOTAL LIGHTS	**518,273**	**393,484**	**667,606**	**490,055**	**524,534**	**518,342**	**517,912**	**543,412**	**517,696**	**516,902**	**493,786**	**516,915**	**6,218,918**	
6	PAPERS														
a	*Competitive D-3*	-	-	-	-	-	-	-	-	-	-	-	-	-	2022 Actual
b	*Competitive F-2*	-	-	-	-	-	-	-	-	-	-	-	-	-	2022 Actual
c	*Competitive T-1*	-	-	-	-	-	-	-	-	-	-	-	-	-	2022 Actual
	TOTAL SALES	**141,685,724**	**132,899,773**	**139,953,049**	**115,045,745**	**95,345,559**	**130,584,130**	**123,111,877**	**137,597,871**	**135,433,909**	**112,020,694**	**106,274,550**	**125,989,035**	**1,495,941,913**	

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Charges For Retail Customers Interconnected on the BHD System - Unit Costs of Acting as Customer's Agent for Service True-up and Interest Calculation for 2022
Implemented Charges Based on 2021 Data and Certain Forecasts
Worksheet 12

Line No.	True-up Calculation	Total	Reference
1	Revenues (Enter Credit)	$ (35,772,636)	Att F - App B - Att 2 - Attachment _Supp 2
2	Adjustments		n/a
3	Net Revenues (Line 1 - Line 2)	$ (35,772,636)	
4	Actual Annual Revenue Requirements	39,302,934	WS 8 Line 32
5	True-up Rebill/(Refund) (Line 3 + Line 4)	$ 3,530,298	

	Interest Calculation		(A)	(B)		(C) = (A) x (B)
	Month	Year	Balance (a)	FERC Monthly Interest Rate		Interest
6	January	2022	3,530,298	0.2800%	(b)	9,885
7	February	2022	3,530,298	0.2500%	(b)	8,826
8	March	2022	3,530,298	0.2800%	(b)	9,885
9	April	2022	3,558,893	0.2700%	(b)	9,609
10	May	2022	3,558,893	0.2800%	(b)	9,965
11	June	2022	3,558,893	0.2700%	(b)	9,609
12	July	2022	3,588,076	0.3100%	(b)	11,123
13	August	2022	3,588,076	0.3100%	(b)	11,123
14	September	2022	3,588,076	0.3000%	(b)	10,764
15	October	2022	3,621,086	0.4200%	(b)	15,209
16	November	2022	3,621,086	0.4000%	(b)	14,484
17	December	2022	3,621,086	0.4200%	(b)	15,209
18	January	2023	3,665,988	0.5400%	(b)	19,796
19	February	2023	3,665,988	0.4800%	(b)	17,597
20	March	2023	3,665,988	0.5400%	(b)	19,796
21	April	2023	3,723,177	0.6200%	(b)	23,084
22	May	2023	3,723,177	0.6400%	(b)	23,828
23	June	2023	3,723,177	0.3888%	(c)	14,477
24	July	2023	3,784,566	0.3888%	(c)	14,715
25	August	2023	3,784,566	0.3888%	(c)	14,715
26	September	2023	3,784,566	0.3888%	(c)	14,715
27	October	2023	3,828,711	0.3888%	(c)	14,887
28	November	2023	3,828,711	0.3888%	(c)	14,887
29	December	2023	3,828,711	0.3888%	(c)	14,887
30			Total Interest (Sum Lines 6 thru 29)			$ 343,075
31				True-up (Line 5)		3,530,298
32			Total True-up & Interest (Line 30 + Line 31)			$ 3,873,372

Notes:

(a) Interest is compounded quarterly per Code of Federal Regulation Title 18 Section 35.19a.

(b) Interest rate per Code of Federal Regulation Title 18 Section 35.19a.

(c) Interest rate forecast (Average Lines 6 thru 22) 0.3888%

The average interest rate for June-December will be re-calculated with actual interest rates during the subsequent annual update, and refunded/surcharged to customers appropriately.

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Scheduling, System Control and Dispatch Service True-up and Interest Calculation for 202
Implemented Charges Based on 2021 Data and Certain Forecasts
Worksheet 13

Line No.	True-up Calculation		Total	Reference
1	Revenues (Enter Credit)	$	(349,629)	Att F - App B - Att 2 - Attachment _Supp 2
2	Adjustments			n/a
3	Net Revenues (Line 1 - Line 2)	$	(349,629)	
4	Actual Annual Revenue Requirements		230,567	WS 5 Line 3
5	True-up Rebill/(Refund) (Line 3 + Line 4)	$	(119,062)	

	Interest Calculation		(A)	(B)		(C) = (A) x (B)
	Month	Year	Balance (a)	FERC Monthly Interest Rate		Interest
6	January	2022	(119,062)	0.2800%	(b)	(333)
7	February	2022	(119,062)	0.2500%	(b)	(298)
8	March	2022	(119,062)	0.2800%	(b)	(333)
9	April	2022	(120,027)	0.2700%	(b)	(324)
10	May	2022	(120,027)	0.2800%	(b)	(336)
11	June	2022	(120,027)	0.2700%	(b)	(324)
12	July	2022	(121,011)	0.3100%	(b)	(375)
13	August	2022	(121,011)	0.3100%	(b)	(375)
14	September	2022	(121,011)	0.3000%	(b)	(363)
15	October	2022	(122,124)	0.4200%	(b)	(513)
16	November	2022	(122,124)	0.4000%	(b)	(488)
17	December	2022	(122,124)	0.4200%	(b)	(513)
18	January	2023	(123,639)	0.5400%	(b)	(668)
19	February	2023	(123,639)	0.4800%	(b)	(593)
20	March	2023	(123,639)	0.5400%	(b)	(668)
21	April	2023	(125,567)	0.6200%	(b)	(779)
22	May	2023	(125,567)	0.6400%	(b)	(804)
23	June	2023	(125,567)	0.3888%	(c)	(488)
24	July	2023	(127,638)	0.3888%	(c)	(496)
25	August	2023	(127,638)	0.3888%	(c)	(496)
26	September	2023	(127,638)	0.3888%	(c)	(496)
27	October	2023	(129,127)	0.3888%	(c)	(502)
28	November	2023	(129,127)	0.3888%	(c)	(502)
29	December	2023	(129,127)	0.3888%	(c)	(502)
30			Total Interest (Sum Lines 6 thru 29)		$	(11,570)
31				True-up (Line 5)		(119,062)
32			Total True-up & Interest (Line 30 + Line 31)		$	(130,633)

Notes:

(a) Interest is compounded quarterly per Code of Federal Regulation Title 18 Section 35.19a.

(b) Interest rate per Code of Federal Regulation Title 18 Section 35.19a.

(c) Interest rate forecast (Average Lines 6 thru 22) 0.3888%

The average interest rate for June-December will be re-calculated with actual interest rates during the subsequent annual update, and refunded/surcharged to customers appropriately.

Versant Power - Bangor Hydro District (BHD)
Attachment 2 - Calculations in Support of Schedule 21-VP Rates
Jan 1, 2024 through Dec 31, 2024
Retail Rates
Worksheet 14
Implemented Charges Based on 2022 Data and Certain Forecasts

	VP BHD Rate Tariffs	CY 2024 Rates		CY 2023 Rates		Rates % change	
						$/kW-Mo	$/kWh
		$/kW-Mo	$/kWh	$/kW-Mo	$/kWh	%	%
Residential Service	A;A-1;A-2;A-3;A-4;A-20;A-5;		$ 0.04544		$ 0.04383		3.7%
General Service	B-1;B-2;B-3;B-4;		$ 0.04477		$ 0.04352		2.9%
Medium Power Secondary	M-2;SB-S3;SB-S5;	$ 18.02		$ 14.46		24.6%	
Medium Power Primary	M-1;SB-P3;SB-P5;	$ 17.40		$ 13.97		24.6%	
Large Power - Primary Voltage	D-4;SB-L3;SB-L5;	$ 17.40		$ 13.97		24.6%	
Large Power - Subtransmission Voltage	T-1;	$ 16.76		$ 13.45		24.6%	
Large Power - Transmission Voltage	T-1;	$ 1.94		$ 3.48		-44.3%	
Street & Area Lighting	G-1;		$ 0.02232		$ 0.02489		-10.3%
Municipal Lighting	G-2;		$ 0.02232		$ 0.02489		-10.3%
Competitive Power Secondary Voltage			$ 0.04064		$ 0.03912		3.9%
Competitive Power Primary Voltage			$ 0.03936		$ 0.03729		5.6%
Competitive Power Subtransmission Voltage			$ 0.03815		$ 0.03617		5.5%
Coincident Peak - Secondary Voltage	SB-S3;SB-S5;	$ 26.18		$ 24.21		8.1%	
Coincident Peak - Primary Voltage	SB-P3;SB-P5;SB-L3;SB-L5;	$ 25.28		$ 23.38		8.1%	
Coincident Peak - Subtransmission Voltage	T-1;	$ 24.35		$ 22.52		8.1%	
Coincident Peak - Transmission Voltage	T-1;	$ 23.76		$ 21.97		8.1%	
Islands		$ 22.15		$ 21.04		5.3%	