# Liberty Utilities

May 18, 2016

CLIFTON BELOW 25 PERLEY AVE LEBANON, NH 03766

Re: Net Metering Customer, Acct: 44627617-44320785

Dear CLIFTON BELOW:

Our billing records indicate that, as of your March 2016 bill, you had accumulated a net surplus of 7140 kWh. New Hampshire Public Utility Commission ("NH PUC") rules regarding net metering require the Company to notify any default service customer who has accumulated a surplus in excess of 600 kWh at the end of their March billing cycle that they have the option to either 1) receive a bill credit equal to the economic value of the surplus, or 2) receive a payment by check of the economic value of the surplus.

If you do not choose either of the above two options, any additional net surplus will continue to accumulate and appear on your monthly bill.

The economic value of your net surplus is \$247.56. This value is based upon your net surplus kWh of 7140 and estimated capacity of 0.704 and the following avoided capacity and energy costs as determined by the NH PUC and posted on their website:

Avoided Capacity (PV Units): \$3.112 per kW-Month Avoided Energy (PV Units): \$30.99 per MWH

If you choose to receive either a bill credit or a check in the amount indicated above, please contact, in writing, by July 1, 2016:

Joanne Iovino 15 Buttrick Rd Londonderry, NH 03053

For information related to NH PUC net metering rules, please visit the NH PUC website at <a href="http://www.puc.state.nh.us/Regulatory/Rules/PUC900.pdf">http://www.puc.state.nh.us/Regulatory/Rules/PUC900.pdf</a>

If we do not hear from you by July 1st, any additional net surplus will continue to accumulate and appear on your monthly bill.

Sincerely,

Nicole Harris Manager Billing & Collections

### 3.3.2 New Hampshire Load Zone Wholesale Load Cost Components, Last 13 Months

Component (All Hours)	MAR2015	APR2015	MAY2015	JUN2015	JUL2015	AUG2015	SEP2015	OCT2015	NOV2015	DEC2015	JAN2016	FEB2016	MAR2016
Total Wholesale Rate (\$/MWh)	\$67.71	\$34.07	\$34.47	\$27.68	\$32.92	\$42.99	\$43.00	\$41.14	\$35.02	\$29.78	\$43.40	\$33.13	\$24.29
Energy	\$56.71	\$25.54	\$26.11	\$19.53	\$25.28	\$35.41	\$34.79	\$32.87	\$26.08	\$21.18	\$33.57	\$26.42	\$17.03
Capacity	\$4.09	\$4.22	\$4.09	\$4.49	\$4.35	\$4.35	\$4.44	\$4.26	\$4.40	\$4.26	\$4.35	\$4.65	\$4.36
NCPC	\$5.45	\$2.47	\$1.96	\$2.40	\$2.21	\$1.88	\$2.28	\$3.14	\$3.53	\$3.26	\$4.56	\$1.04	\$1.74
Ancillary Markets	\$1.33	\$1.39	\$1.80	\$0.69	\$0.59	\$0.86	\$1.02	\$0.54	\$0.61	\$0.57	\$0.58	\$0.57	\$0.59
Misc Credit/Charge	(\$0.61)	(\$0.29)	(\$0.23)	(\$0.18)	(\$0.24)	(\$0.25)	(\$0.29)	(\$0.42)	(\$0.35)	(\$0.23)	(\$0.39)	(\$0.35)	(\$0.21)
Wholesale Mkt Service Charge	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.80	\$0.78
RTLO (MWh)	(995,137)	(861,399)	(906,909)	(928,604)	(1,082,157)	(1,093,990)	(970,652)	(893,743)	(892,987)	(963,817)	(1,038,539)	(951,575)	(937,435)
Total Cost	\$67,380,342	\$29,350,530	\$31,260,684	\$25,707,834	\$35,625,364	\$47,034,036	\$41,736,272	\$36,765,565	\$31,271,603	\$28,700,635	\$45,076,349	\$31,528,899	\$22,774,055
Component (On Peak)	MAR2015	APR2015	MAY2015	JUN2015	JUL2015	AUG2015	SEP2015	OCT2015	NOV2015	DEC2015	JAN2016	FEB2016	MAR2016
Total Wholesale Rate (\$/MWh)	\$71.33	\$40.95	\$38.65	\$32.91	\$41.62	\$53.68	\$56.16	\$46.86	\$42.80	\$37.16	\$51.12	\$37.06	\$27.40
Energy	\$58.53	\$31.28	\$29.21	\$24.21	\$33.33	\$45.37	\$46.80	\$38.01	\$33.18	\$28.22	\$40.76	\$29.82	\$19.85
Capacity	\$4.09	\$4.22	\$4.09	\$4.49	\$4.35	\$4.35	\$4.44	\$4.26	\$4.40	\$4.26	\$4.35	\$4.65	\$4.36
NCPC	\$6.11	\$2.34	\$1.83	\$2.54	\$2.44	\$2.14	\$2.76	\$3.42	\$3.73	\$3.23	\$4.74	\$1.20	\$1.70
Ancillary Markets	\$2.53	\$2.69	\$3.07	\$1.14	\$1.07	\$1.41	\$1.80	\$0.92	\$1.14	\$0.97	\$1.00	\$0.95	\$0.93
Misc Credit/Charge	(\$0.67)	(\$0.33)	(\$0.29)	(\$0.22)	(\$0.31)	(\$0.34)	(\$0.38)	(\$0.49)	(\$0.40)	(\$0.26)	(\$0.47)	(\$0.37)	(\$0.22)
Wholesale Mkt Service Charge	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.80	\$0.78
RTLO (MWh)	(518,487)	(473,333)	(450,752)	(522,024)	(620,226)	(576,717)	(526,350)	(478,584)	(448,768)	(515,658)	(505,140)	(506,599)	(516,202)
Total Cost	\$36,985,673	\$19,383,444	\$17,422,178	\$17,178,463	\$25,813,188	\$30,957,477	\$29,558,244	\$22,425,765	\$19,205,358	\$19,159,636	\$25,825,249	\$18,772,599	\$14,145,496
Component (Off Peak)	MAR2015	APR2015	MAY2015	JUN2015	JUL2015	AUG2015	SEP2015	OCT2015	NOV2015	DEC2015	JAN2016	FEB2016	MAR2016
Total Wholesale Rate (\$/MWh)	\$64.45	\$27.49	\$31.31	\$22.69	\$24.41	\$34.19	\$31.48	\$36.00	\$28.81	\$23.15	\$37.58	\$29.47	\$21.24
Energy	\$55.07	\$20.04	\$23.76	\$15.06	\$17.39	\$27.20	\$24.29	\$28.25	\$20.41	\$14.86	\$28.15	\$23.25	\$14.25
Capacity	\$4.09	\$4.22	\$4.09	\$4.49	\$4.35	\$4.35	\$4.44	\$4.26	\$4.40	\$4.26	\$4.35	\$4.65	\$4.36
NCPC	\$4.85	\$2.59	\$2.06	\$2.28	\$1.98	\$1.67	\$1.87	\$2.89	\$3.36	\$3.27	\$4.42	\$0.90	\$1.78
Ancillary Markets	\$0.24	\$0.14	\$0.85	\$0.25	\$0.11	\$0.41	\$0.34	\$0.21	\$0.19	\$0.22	\$0.26	\$0.22	\$0.26
Misc Credit/Charge	(\$0.55)	(\$0.25)	(\$0.19)	(\$0.14)	(\$0.17)	(\$0.17)	(\$0.21)	(\$0.36)	(\$0.30)	(\$0.19)	(\$0.34)	(\$0.34)	(\$0.19)
Wholesale Mkt Service Charge	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.80	\$0.78
RTLO (MWh)	(476,650)	(388,066)	(456,157)	(406,579)	(461,931)	(517,273)	(444,301)	(415,160)	(444,219)	(448,159)	(533,399)	(444,975)	(421,233)
	\$30,718,605	\$10,669,611	\$14,283,781		\$11,274,578	\$17,687,231	\$13,988,521	\$14,945,125	\$12,799,450	\$10,376,355	\$20,043,163	\$13,114,395	\$8,948,251

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1 NH Wholesale Load Costs from ISO-	NE Monthly Who	lesale Load Cos	t Report. Marc	h 2016, (April 1	.1, 2016), Table	3.3.2 on p. 15.		http://www.iso	o-ne.com/stati	c-assets/docum	nents/2016/04	/2016 03 wlc.p	odf			
2 With calculations added (Columns C	)-P and Lines 1-2,	11,15-19, 28, 3	31, 41 and 44) b	y Clifton Belov	ı, 6/16/16									12 MO.		
3 Component (All Hours)	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16			
4 Total Wholesale Rate (\$/MWh)	\$67.71	\$34.07	\$34.47	\$27.68	\$32.92	\$42.99	\$43.00	\$41.14	\$35.02	\$29.78	\$43.40	\$33.13	\$24.29	\$35.16		
5 Energy	\$56.71	\$25.54	\$26.11	\$19.53	\$25.28	\$35.41	\$34.79	\$32.87	\$26.08	\$21.18	\$33.57	\$26.42	\$17.03	\$26.98		
6 Capacity	\$4.09	\$4.22	\$4.09	\$4.49	\$4.35	\$4.35	\$4.44	\$4.26	\$4.40	\$4.26	\$4.35	\$4.65	\$4.36	\$4.35		
7 NCPC	\$5.45	\$2.47	\$1.96	\$2.40	\$2.21	\$1.88	\$2.28	\$3.14	\$3.53	\$3.26	\$4.56	\$1.04	\$1.74			
8 Ancillary Markets	\$1.33	\$1.39	\$1.80	\$0.69	\$0.59	\$0.86	\$1.02	\$0.54	\$0.61	\$0.57	\$0.58	\$0.57	\$0.59			
9 Misc Credit/Charge	(\$0.61)	(\$0.29)	(\$0.23)	(\$0.18)	(\$0.24)	(\$0.25)	(\$0.29)	(\$0.42)	(\$0.35)	(\$0.23)	(\$0.39)	(\$0.35)	(\$0.21)			
10 Wholesale Mkt. Service Charge	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.80	\$0.78			
11 ST Other than Energy & Capacity		\$4.32	\$4.27	\$3.66	\$3.30	\$3.23	\$3.76	\$4.00	\$4.54	\$4.34	\$5.49	\$2.06	\$2.90			
12 RTLO (MWh)	-995,137	-861,399	-906,909	-928,604	-1,082,157	-1,093,990	-970,652	-893,743	-892,987	-963,817	-1,038,539	-951,575	-937,435		-11,521,807	
13 Total Cost	\$67,380,342	\$29,350,530	\$31,260,684	\$25,707,834	\$35,625,364	\$47,034,036	\$41,736,272	\$36,765,565	\$31,271,603	\$28,700,635	\$45,076,349	\$31,528,899	\$22,774,055			<b></b>
14															% of Total	-
15 Load Weighted AVE TOTAL COST		\$2.547	\$2.713	\$2.231	\$3.092	\$4.082	\$3.623	\$3.191	\$2.714	\$2.491	\$3.912	\$2.736		\$35.31	100%	
16 Load Weighted AVE Energy Cost		\$1.909	\$2.055	\$1.574	\$2.374	\$3.362	\$2.931	\$2.550	\$2.021	\$1.772	\$3.026	\$2.182	\$1.386		77%	\$27.1
17 Load Weighted AVE Capacity Cost	0.01	\$0.315	\$0.322	\$0.362	\$0.409	\$0.413	\$0.374	\$0.330	\$0.341	\$0.356	\$0.392	\$0.384	\$0.355	\$4.35	12%	40.0
18 Load Weighted AVE ST Ancillary Svc	s. & Chrgs.	\$0.323	\$0.336	\$0.295	\$0.310	\$0.307	\$0.317	\$0.310	\$0.352	\$0.363	\$0.495	\$0.170	\$0.236	\$3.81	11%	\$3.8
19	14 45						6 45	0 . 45	N. 45	5 45		5 1 46		\$35.31		\$30.9
20 Component (On Peak)	Mar-15	Apr-15	May-15	Jun-15 \$32.91	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16					<del>                                     </del>
21 Total Wholesale Rate (\$/MWh)	\$71.33	\$40.95	\$38.65	\$32.91	\$41.62	\$53.68	\$56.16 \$46.80	\$46.86	\$42.80	\$37.16	\$51.12 \$40.76	\$37.06	\$27.40	\$42.20		
22 Energy 23 Capacity	\$58.53	\$31.28 \$4.22	\$29.21 \$4.09		\$33.33 \$4.35	\$45.37 \$4.35		\$38.01	\$33.18	\$28.22	,	\$29.82	\$19.85	\$33.34		
23 Capacity 24 NCPC	\$4.09 \$6.11	\$4.22	\$4.09	\$4.49 \$2.54	\$4.35	\$4.35	\$4.44 \$2.76	\$4.26 \$3.42	\$4.40 \$3.73	\$4.26 \$3.23	\$4.35 \$4.74	\$4.65 \$1.20	\$4.36 \$1.70	\$4.35		
25 Ancillary Markets	\$0.11	\$2.34	\$1.83	\$2.54	\$2.44	\$1.41	\$2.76	\$0.92	\$3.73	\$3.23	\$4.74	\$1.20	\$1.70			
26 Misc Credit/Charge	(\$0.67)	(\$0.33)	(\$0.29)	(\$0.22)	(\$0.31)	(\$0.34)	(\$0.38)	(\$0.49)	(\$0.40)	(\$0.26)	(\$0.47)	(\$0.37)	(\$0.22)			
27 Wholesale Mkt. Service Charge	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.80	\$0.78			
28 ST Other than Energy & Capacity	70.74	\$5.45	\$5.35	\$4.21	\$3.94	\$3.95	\$4.93	\$4.59	\$5.22	\$4.68	\$6.01	\$2.58	\$3.19	\$4.51		
29 RTLO (MWh)	-518,487	-473,333	-450,752	-522.024	-620,226	-576,717	-526,350	-478,584	-448,768	-515,658	-505,140		-516,202	Ş4.J1	-6,140,353	
30 Total Cost	\$36.985.673	\$19,383,444	\$17,422,178	\$17,178,463	\$25,813,188	\$30,957,477	\$29,558,244	,	\$19,205,358	\$19,159,636	\$25,825,249	\$18,772,599	\$14,145,496		0,2 10,000	
31 Load Weighted AVE ST Ancillary Svc	1 , ,	\$0.420	\$0.393	\$0.358	\$0.398	\$0.371	\$0.423	\$0.358	\$0.382	\$0.393	\$0.494	\$0.213	\$0.268	\$4.47		
32	<b>3</b>				,	,		,		,		, -				
33 Component (Off Peak)	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16			
34 Total Wholesale Rate (\$/MWh)	\$64.45	\$27.49	\$31.31	\$22.69	\$24.41	\$34.19	\$31.48	\$36.00	\$28.81	\$23.15	\$37.58	\$29.47	\$21.24	\$28.99		
35 Energy	\$55.07	\$20.04	\$23.76	\$15.06	\$17.39	\$27.20	\$24.29	\$28.25	\$20.41	\$14.86	\$28.15	\$23.25	\$14.25	\$21.41		
36 Capacity	\$4.09	\$4.22	\$4.09	\$4.49	\$4.35	\$4.35	\$4.44	\$4.26	\$4.40	\$4.26	\$4.35	\$4.65	\$4.36	\$4.35		
37 NCPC	\$4.85	\$2.59	\$2.06	\$2.28	\$1.98	\$1.67	\$1.87	\$2.89	\$3.36	\$3.27	\$4.42	\$0.90	\$1.78			
38 Ancillary Markets	\$0.24	\$0.14	\$0.85	\$0.25	\$0.11	\$0.41	\$0.34	\$0.21	\$0.19	\$0.22	\$0.26	\$0.22	\$0.26			
39 Misc Credit/Charge	(\$0.55)	(\$0.25)	(\$0.19)	(\$0.14)	(\$0.17)	(\$0.17)	(\$0.21)	(\$0.36)	(\$0.30)	(\$0.19)	(\$0.34)	(\$0.34)	(\$0.19)			
40 Wholesale Mkt. Service Charge	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.75	\$0.74	\$0.75	\$0.74	\$0.74	\$0.80	\$0.78			
41 ST Other than Energy & Capacity		\$3.23	\$3.46	\$3.14	\$2.66	\$2.65	\$2.75	\$3.48	\$4.00	\$4.04	\$5.08	\$1.58	\$2.63	\$3.23		
42 RTLO (MWh)	-476,650	-388,066	-456,157	-406,579	-461,931	-517,273	-444,301	-415,160	-444,219	-448,159	-533,399		-421,233		-5,381,452	
43 Total Cost	\$30,718,605	\$10,669,611	\$14,283,781		\$11,274,578					\$10,376,355	. , ,	\$13,114,395	\$8,948,251			<b></b>
44 Load Weighted AVE ST Ancillary Svc	s & Charges	\$0.233	\$0.293	\$0.237	\$0.228	\$0.255	\$0.227	\$0.268	\$0.330	\$0.336	\$0.504	\$0.131	\$0.206	\$3.25		

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		FINAL AVOIDED						A AS	1	1	ies \$1	/hr. for	ANCI	LLARY SER\	/ICES	CHARGES II	nstea	id of Actual	Data	
INES 16-28	added by	C. Below 6/5/15	to show ca	alculations	& com	parisc	ons													
									Rule(s)											
Avoided En	ergy Cost (A	All but Solar PV)			\$ 28	3.92	MWh		Puc 903.0	)2 (i)(2) & (	i)(6) a	Э.	(See '	"AC calc" ta	ıb)					
Avoided En	ergy Cost (S	Solar PV)			\$ 30	0.99	MWh		Puc 903.0	)2 (i)(2) & (	i)(7) k	э.	(See '	"AC calc" ta	ıb)					
Avoided Ca	pacity Cost	S			\$ 3.	112	kW-mont	th	Puc 903.0	)2 (i)(3)			(See '	"Capacity"	tab)					
Portion of S	urplus Gen	eration During	Peak Hour		0.0114	16%			Puc 903.0	02 (i)(6) b.			(See '	"Capacity"	tab)					
	(All but Sol	ar PV)																		
Portion of S	urplus Gen	eration During	Peak Hour		0.0098	53%			Puc 903.0	02 (i)(7) c.			(See '	"Capacity"	tab)					
	(Solar PV)																			
,	,		,		,				,	,		,		Avoided		Total A	Avoid	led Energy	& Capacity C	osts
Conversion	of Capacity	Avoided Cost a	as a % of tot	tal to kWh				A۷	oided Cap	acity Cost			+	Energy			for	Surplus Ge	neration	
		% kWh at pk.	MWh		kW-mo	nth	in \$/MV	Vh/mo	).	in \$	/MW	h/year		\$/MWh		/MWh		/kWh		
1000	х	0.011416%	0.114155	х	\$ 3.	112	\$ 0.36	6 x	12	=	\$	4.26	+	\$ 28.92	=	\$ 33.18	\$	0.03318	Total Non-P	v
1000	х	0.009853%	0.09853	х	\$ 3.	112	\$ 0.307	7 x	12	=	\$	3.68	+	\$ 30.99	=	\$ 34.67	\$	0.03467	Total PV	
											•			•		•	-			
PV/ Non-P\	/ =											86.3%		107.2%				104.5%	= PV/ Non-P	V
,																			,	
Surplus Ger	neration Va	luation Example	e assuming		7	.140	MWH of	Surpli	ıs Generat	ion				7.140	)	7.140	)			
p 30.								- u. p. c							-		_			
7.140	x	0.009853%	0.703506	x	\$ 3	112	\$ 2.19	9 x	12				=			, L				
7,110	^	3.00303370	5.7 05500	^	<b>Ψ</b> 3.		y		12						-					
	voided Endovoided Endovoided Calloronion of Stortion o	woided Energy Cost (Anyoided Energy Cost (Stavoided Energy Cost (Stavoided Capacity Cost (Stavoided Capacity Cost (All but Sol (Solar PV))  Sonversion of Surplus Generation (Solar PV)  Sonversion of Capacity  1000 x  1000 x  2V/ Non-PV =	woided Energy Cost (All but Solar PV)  woided Energy Cost (Solar PV)  woided Capacity Costs  ortion of Surplus Generation During (All but Solar PV)  ortion of Surplus Generation During (Solar PV)  conversion of Capacity Avoided Cost a  % kWh at pk.  1000 x 0.009853%  PV/ Non-PV =  urplus Generation Valuation Example	woided Energy Cost (All but Solar PV)  woided Energy Cost (Solar PV)  woided Capacity Costs  ortion of Surplus Generation During Peak Hour  (All but Solar PV)  ortion of Surplus Generation During Peak Hour  (Solar PV)  conversion of Capacity Avoided Cost as a % of to % kWh at pk. MWh  1000 x 0.011416% 0.114155  1000 x 0.009853% 0.09853  PV/ Non-PV =	Avoided Energy Cost (All but Solar PV)  Avoided Energy Cost (Solar PV)  Avoided Capacity Costs  Ortion of Surplus Generation During Peak Hour  (All but Solar PV)  Ortion of Surplus Generation During Peak Hour  (Solar PV)  Conversion of Capacity Avoided Cost as a % of total to kWh  % kWh at pk. MWh  1000 x 0.011416% 0.114155 x  1000 x 0.009853% 0.09853 x  PV/ Non-PV =  urplus Generation Valuation Example assuming	Avoided Energy Cost (All but Solar PV)  Avoided Energy Cost (Solar PV)  Avoided Energy Cost (Solar PV)  Avoided Capacity Costs  Solar PV)  Fortion of Surplus Generation During Peak Hour  (All but Solar PV)  Fortion of Surplus Generation During Peak Hour  (Solar PV)  Fortion of Capacity Avoided Cost as a % of total to kWh  8 kWh at pk. MWh  1000 x 0.011416% 0.114155 x \$ 3.  1000 x 0.009853% 0.09853 x \$ 3.  PV/ Non-PV =  urplus Generation Valuation Example assuming	woided Energy Cost (All but Solar PV) \$ 28.92  woided Energy Cost (Solar PV) \$ 30.99  woided Capacity Costs \$ 3.112  ortion of Surplus Generation During Peak Hour (All but Solar PV)  ortion of Surplus Generation During Peak Hour (Solar PV)  conversion of Capacity Avoided Cost as a % of total to kWh  % kWh at pk. MWh  1000 x 0.009853% 0.09853 x \$ 3.112  PV/ Non-PV =  urplus Generation Valuation Example assuming 7.140	woided Energy Cost (Solar PV) \$ 30.99 MWh  woided Capacity Costs \$ 3.112 kW-mont  ortion of Surplus Generation During Peak Hour  (All but Solar PV)  cortion of Surplus Generation During Peak Hour  (Solar PV)  conversion of Capacity Avoided Cost as a % of total to kWh  % kWh at pk. MWh 1000 x 0.011416% 0.114155 x \$ 3.112 \$ 0.30  1000 x 0.009853% 0.09853 x \$ 3.112 \$ 0.30  PV/ Non-PV =  urplus Generation Valuation Example assuming 7.140 MWH of	woided Energy Cost (All but Solar PV) \$ 28.92 MWh woided Energy Cost (Solar PV) \$ 30.99 MWh woided Capacity Costs \$ 3.112 kW-month ortion of Surplus Generation During Peak Hour (All but Solar PV) ortion of Surplus Generation During Peak Hour (Solar PV) conversion of Capacity Avoided Cost as a % of total to kWh (Solar PV) 1000 x 0.009853% 0.09853 x \$ 3.112 \$ 0.307 x 1000 x 0.009853% 0.09853 x \$ 3.112 \$ 0.307 x  PV/ Non-PV =  urplus Generation Valuation Example assuming 7.140 MWH of Surplus	Avoided Energy Cost (All but Solar PV)  Avoided Energy Cost (Solar PV)  Avoided Capacity Costs  Avoide	woided Energy Cost (All but Solar PV) \$ 28.92 MWh Puc 903.02 (i)(2) & ( woided Energy Cost (Solar PV) \$ 30.99 MWh Puc 903.02 (i)(2) & ( woided Capacity Costs \$ 3.112 kW-month Puc 903.02 (i)(3)  ortion of Surplus Generation During Peak Hour (All but Solar PV)  ortion of Surplus Generation During Peak Hour (Solar PV)  ortion of Capacity Avoided Cost as a % of total to kWh (Solar PV)  ortion of Capacity Avoided Cost as a % of total to kWh 1000 x 0.011416% 0.114155 x \$ 3.112 \$ 0.36 x 12 =  1000 x 0.009853% 0.09853 x \$ 3.112 \$ 0.307 x 12 =  PV/ Non-PV =  urplus Generation Valuation Example assuming  7.140 MWH of Surplus Generation	Rule(s)   Rule	Rule(s)   Rule	Rule(s)	Rule(s)   Rule	Novided Energy Cost (All but Solar PV)   \$ 28.92   MWh   Puc 903.02 (i)(2) & (i)(6) a.   (See "AC calc" tab)	Rule(s)   Rule	Rule(s)	woided Energy Cost (All but Solar PV) \$ 28.92 MWh Puc 903.02 (i)(2) & (i)(6) a. (See "AC calc" tab) woided Energy Cost (Solar PV) \$ 30.99 MWh Puc 903.02 (i)(2) & (i)(7) b. (See "AC calc" tab) woided Capacity Costs \$ 3.112 kW-month Puc 903.02 (i)(3) (See "Capacity" tab) ortion of Surplus Generation During Peak Hour (All but Solar PV)	Rule(s)   Rule

	Α	В	С	D	Е		F		G	Н	1	J	I	K	L	М	N	0		P	Q	R
1	LINES 3-15	per NHPUC	FINAL AVOIDE	D COST CAL	CULATION		<u> </u>	1		COR	RECTED A	CTUAL GEI	NER/	ATION R	ELAT	ED ANCILLA	L	VICES CHAR	GES F	OR EACH	HOUR	
			C. Below 6/5/1			& cor	npariso	ns			Relevant											
3											Rule(s)											
4																						
5	Avoided Er	ergy Cost (	All but Solar PV	)		\$	31.80	MW	'h		Puc 903.0	2 (i)(2) & (	i)(6)	a.	(See	"AC calc (2)	" tab)					
6																						
7	Avoided Er	ergy Cost (	Solar PV)			\$	34.08	MW	'h		Puc 903.0	2 (i)(2) & (	i)(7)	b.	(See	"AC calc (2)	" tab)					
8																						
	Avoided Ca	pacity Cost	is			\$	3.112	kW-ı	month		Puc 903.0	2 (i)(3)			(See	"Capacity" t	tab)					
10												- 4-14-14										
	Portion of		neration During	Peak Hour		0.01	.1416%				Puc 903.0	2 (i)(6) b.			(See	"Capacity" t	tab)					
12		(All but Sol	lar PV)																			
13	D 11 C		5 .	D 1 11		0.00	00520/				D 002.0	2 (:)(7)			10							-
14 15		(Solar PV)	neration During	Peak Hour		0.00	9853%				Puc 903.0	2 (I)(/) C.			(See	"Capacity" t	tab)					
16		(Solal PV)	ļ			1										Avoided		Total Av	oidor	d Enoray 9	Capacity (	Costs
	Conversion	of Canacity	y Avoided Cost	as a % of to	tal to k\Mh					Δν	oided Cap	acity Cost			+	Energy	=			urplus Ger		20313
18	CONVENSION	or Capacit	% kWh at pk.		tai to kvvii	kW-r	nonth	in S	S/MWh				/N/\/	Vh/year	•	\$/MWh	_	/MWh		/kWh	iciation	
19	1000	Х	0.011416%		- X	\$	3.112		0.36		. 12	=	\$	4.26	+	\$ 31.80	- =	\$ 36.07		•	Total Non-	-PV
20						-		•					7			7		7	•			
21	1000	Х	0.009853%	0.09853	х	\$	3.112	\$	0.307	х	12	=	\$	3.68	+	\$ 34.08	=	\$ 37.76	\$	0.03776	Total PV	
22																						
23	PV/ Non-P	V =												86.3%		107.2%				104.7%	= PV/ Non-	-PV
24																						
25	Surplus Ge	neration Va	aluation Example	e assuming			7.140	MW	'H of Su	rplu	ıs Generat	ion				7.140		7.140	X			
26																\$ 243.35		\$ 269.62	=			
27	7,140	Х	0.009853%	0.703506	х	\$	3.112	\$	2.19	Х	12				=	\$ 26.27	_					
28																\$ 269.62						

	Α	В	С	D	Е	F	G	Н	1	J	T	K	L	М	N	0		P	Q	R
1	LINES 3-15	per NHPU(	C FINAL AVOIDE	D COST CAL	CULATIO	N .	1		USING On	& Off Pea	k Ave	erage H	OURL	Y ANCILLAR	Y SER	VICES CHAI	RGES	DATA		
2			C. Below 6/5/15				isons		Relevant			Ŭ								
3		ŕ							Rule(s)											
4																				
5	Avoided En	ergy Cost (	(All but Solar PV)			\$ 31.34	MWh		Puc 903.0	2 (i)(2) & (	i)(6) a	a.	(See '	'AC calc (3)'	' tab)					
6																				
7	Avoided En	ergy Cost (	(Solar PV)			\$ 34.24	MWh		Puc 903.0	2 (i)(2) & (	i)(7) l	b.	(See '	'AC calc (3)"	' tab)					
8																				
9	Avoided Ca	pacity Cost	ts			\$ 3.112	kW-month		Puc 903.0	2 (i)(3)			(See '	'Capacity" t	ab)					
10																				
11			neration During	Peak Hour		0.0114169	6		Puc 903.0	2 (i)(6) b.			(See '	'Capacity" t	ab)					
12		(All but So	lar PV)																	
13																				
14		•	neration During	Peak Hour		0.0098539	6		Puc 903.0	2 (i)(7) c.			(See '	'Capacity" t	ab)					
15		(Solar PV)			l												L			
16				-, -,										Avoided		Total Avoi		٠.	Capacity Cost	ts for
17	Conversion	of Capacit	y Avoided Cost a		tal to kW				oided Cap		/2 41 4		+	Energy		/2 43 4 /1		urplus Ge	neration	
18	1000		% kWh at pk.	MWh	-		in \$/MWh		_		•	/h/year		\$/MWh		/MWh		/kWh		
19	1000	Х	0.011416%	0.114155	х	\$ 3.112	\$ 0.36	Х	12	=	\$	4.26	+	\$ 31.34	=	\$ 35.60	Þ	0.03560	Total Non-P	V
20	1000	.,	0.009853%	0.00053	.,	\$ 3.112	\$ 0.307		12	=	Ś	3.68		\$ 34.24	_	\$ 37.92		0.02702	Total DV	
22	1000	Х	0.009853%	0.09853	х	\$ 3.112	\$ 0.307	Х	12	=	Þ	3.08	+	\$ 34.24	=	\$ 37.92	Þ	0.03/92	Total PV	
23	PV/ Non-P\	/ –										86.3%		109.3%				106 5%	= PV/ Non-F	2\/
24	F V/ NUII-P	, –										00.5%		105.3%				100.3%	- rv/ NOII-r	V
25	Surplus Ger	eration Va	aluation Example	e assuming		7 14	0 MWH of Si	ırnlı	ıs Generat	ion				7.140		7.140	X			
26	Sui pius GCi	iciation ve	aldation Example	c assuming		7.14	<u></u>	ai pii	as General	1011				\$ 244.44		\$ 270.71	_			
27	7,140	х	0.009853%	0.703506	х	\$ 3.112	\$ 2.19	x	12				=	\$ 26.27		ψ 2.0.71				
28	,,0	~	0.00000070	00000		, 0.112	, 2.15							\$ 270.71						

	Λ	В	С	D					Н	1 , 1		T	1/		N 4	L		ı	D		
1	I INIEC 2 1E		C FINAL AVOIDE			NI.	Г	G		NG Load We	J Sightad A		I Avora	L CO H	M	N LLABY	O SEDVICES C	LLAD	ļ ļ	Q	R
2		•	C. Below 6/5/1!				compari	one	USI	Relevant	ignteu A	IIIIua	ii Avera	ge no	JURLY AINC	LLART	SERVICES C	.nar	IGES DATA		
3	TIMES 10-28	s added by	C. Below 6/5/13	S to snow ca	aiculatioi	15 &	compans	SONS 													
4										Rule(s)											
-	Augidad Fa	ana. Cast (	All but Solar PV	١		\$	31.81	MWh		Due 002 02	/:\/a\	:\/C\ -		1000	 "AC calc (4)	!! <b>+</b> a <b> </b> a					
5 6	Avolueu Ell	ergy cost (	All but Solar PV	)		Ş	31.61	IVIVVII		Puc 903.02	(I)(∠) & (I	1)(0) a	1.	(See	AC Calc (4)	labj					
	Avoided En	oray Cost I	Solar DV)			\$	33.89	MWh		Puc 903.02	/;\/2\ <i>Q.</i> /;	     \/ <b>7</b> \	2	1500	 "AC calc (4)	" +ah\					
8	Avolueu Ell	ergy cost (	Solal PV)			Ş	33.69	IVIVVII		Puc 905.02	(I)(∠) & (I	)(/) L	J.	(See	AC Calc (4)	labj					
	Avoided Ca	nacity Cost	 			\$	2 112	kW-month		Puc 903.02	/:\/2\			1500	"Capacity"	tab)					
10	Avolueu Ca	pacity Cosi	ıs			Ş	3.112	KVV-IIIOIILII		Fuc 303.02	(1)(3)			(See	Сараспу	lauj					
11	Portion of 9	Surplus Gor	neration During	Poak Hour		0.0	)11416%			Puc 903.02	(i)(6) h			(\$00	"Capacity"	tah)					
12		(All but So		reakiloui		0.0	71141070			F uc 303.02	(1)(0) 0.			(366	Capacity	Labj					
13		(All but 30	iai rvj																		
14	Portion of 9	Surnlus Gar	neration During	Poak Hour		0.0	09853%			Puc 903.02	(i)(7) c			(500	"Capacity"	tah)					
15		(Solar PV)		T Cak Hour		0.0	00000070			1 40 303.02	(1)(7) C.			JJCC	Capacity	labj					
16		(Solul 1 V)				l			ļ			1			Avoided	1	Total Avoi	ded	Fnergy & (	Capacity Cost	ts for
17	Conversion	of Canacit	y Avoided Cost a	as a % of tot	tal to kW	h			Δ۱	oided Capac	ity Cost			+	Energy		Total 71701		Surplus Ge		.5 .6.
18	Conversion	or capacit	% kWh at pk.	MWh	iai to kw		-month	in \$/MWł		•		/N/\//	h/year	-	\$/MWh		/MWh		/kWh	incrution.	
19	1000	х	0.011416%		х	Ś	3.112		_	12	=	<u> </u>	4.26	+	\$ 31.81	- =	\$ 36.07	Ś	•	_ Total Non-P	v
20						-		,				•			, , , , ,		7	•			-
21	1000	х	0.009853%	0.09853	х	Ś	3.112	\$ 0.307	х	12	=	Ś	3.68	+	\$ 33.89	=	\$ 37.57	Ś	0.03757	Total PV	
22						-		,				•			,		,	•			
23	PV/ Non-P	V =											86.3%		106.5%				104.2%	= PV/ Non-F	νV
24	.,																			,	
25	Surplus Gei	neration Va	aluation Example	e assuming			7.140	MWH of Si	urplu	us Generatio	n				7.140	)	7.140	Χ			
26								•							\$ 241.98	_	\$ 268.25	=			
27	7,140	х	0.009853%	0.703506	x	\$	3.112	\$ 2.19	х	12				=	\$ 26.27						
28															\$ 268.25	-					

				_													
<u> </u>	A	В	C C	D	E	F	G	H	J	K	L	M	N	0	Р P	Q	R
	•		C FINAL AVOIDE					A AS USED BY P	UC, Assum	ies \$1/nr. f	or ANCILLA	RY SERVICES	CHA	KGES Instea	ad of Actual	Data	
2	LINES 16-28	3 added by	C. Below 6/5/1	5 to show c	alculatio	ns & compar	isons	Relevant									
3								Rule(s)									
4																	
5	Avoided En	ergy Cost	(All but Solar PV	)		\$ 49.85	MWh	Puc 903.02	(i)(2) & (i)	(6) a.	(See "AC	calc" tab)					
6																	
7	Avoided En	ergy Cost	(Solar PV)			\$ 52.89	MWh	Puc 903.02	(i)(2) & (i)	(7) b.	(See "AC	calc" tab)					
8																	
9	Avoided Ca	pacity Cos	its			\$ 2.964	kW-month	Puc 903.02	(i)(3)		(See "Cap	acity" tab)					
10																	
11	Portion of S	Surplus Ge	neration During	Peak Hour		0.011416%		Puc 903.02	(i)(6) b.		(See "Cap	acity" tab)					
12		(All but So	lar PV)														
13																	
14	Portion of S	Surplus Ge	neration During	Peak Hour		0.021223%		Puc 903.02	(i)(7) c.		(See "Cap	acity" tab)					
15		(Solar PV)															
16												Avoided		Total Av	oided Energ	gy & Capacit	y Costs
17	Conversion	of Capacit	ty Avoided Cost	as a % of to	tal to kW	/h		Avoided Capa	city Cost		+	Energy	=	1	for Surplus (	Generation	
18			% kWh at pk.	MWh		kW-month	in \$/MWh	n/mo.	in \$/	/MWh/yea	r	\$/MWh		/MWh	/kWh	_	
19	1000	Х	0.011416%	0.114155	Х	\$ 2.964	\$ 0.34	x 12	=	\$ 4.06	+	\$ 49.85	=	\$ 53.91	\$ 0.05391	Total Non-	PV
20																	
21	1000	Х	0.021223%	0.212235	х	\$ 2.964	\$ 0.629	x 12	=	\$ 7.55	+	\$ 52.89	=	\$ 60.44	\$ 0.06044	Total PV	
22																	
23	PV/ Non-P	V =								185.9%	, 5	106.1%			112.1%	= PV/ Non-	·PV
24																	
25	Surplus Gei	neration V	aluation Exampl	e assuming		10.000	MWH of Su	urplus Generatio	n			10.000		10.000			
26							•					\$ 528.90		\$ 604.37			
27	10,000	х	0.021223%	2.122346	х	\$ 2.964	\$ 6.29	x 12			=	\$ 75.48					
28												\$ 604.37					

	Α	В	С	D	Е		F	G	Н	1	J	К	L	М	N	0	Р	Q	R
1	LINES 3-15	er NHPL	JC FINAL AVOIDE	COST CALC	CULATI	ON		WI	тн сс	RRECTED	ACTUAL GEI	NERATION	I RELATED A	NCILLARY SE	RVICES	CHARGES	FOR EACH H	OUR	
2	LINES 16-28	added b	y C. Below 6/5/1	5 to show ca	lculati	ons 8	k compar	isons		Relevant									
3							•			Rule(s)									
4																			
5	Avoided End	ergy Cost	(All but Solar PV			\$	52.78	MWh		Puc 903.02	(i)(2) & (i)(6	6) a.	(See "AC o	alc (2)" tab)					
6																			
7	Avoided En	ergy Cost	(Solar PV)			\$	56.34	MWh		Puc 903.02	(i)(2) & (i)(	7) b.	(See "AC o	calc (2)" tab)					
8																			
9	Avoided Cap	oacity Co	sts			\$	2.964	kW-mont	h	Puc 903.02	(i)(3)		(See "Cap	acity" tab)					
10																			
11		<u>'</u>	eneration During	Peak Hour		0.0	011416%			Puc 903.02	(i)(6) b.		(See "Cap	acity" tab)					
12	(	All but S	olar PV)																
13											4-14-1								
14	<del>-</del>	<u>'</u>	eneration During	Peak Hour		0.0	021223%			Puc 903.02	(i)(7) c.		(See "Cap	acity" tab)					
15		Solar PV	)											A ! . l l		T-4-1 A.	-:	. 0 6	. 61-
16	C	-	: A:	0/	-14-10	\ A / l=			۸.	:	-:4			Avoided			oided Energ		/ Costs
17	Conversion	от Сарас	ity Avoided Cost	as a % of tot MWh	ai to k		-month	: ¢ /N /N A		oided Capa		/N /	<del>_</del> +	Energy	=	/MWh	for Surplus G	eneration	
18 19	1000	х	% kWh at pk. 0.011416%		х	Ś	2.964	in \$/MW	/11/1110 X	12		/MWh/yea \$ 4.06		\$/MWh \$ 52.78	=		\$ 0.05684		DV
20	1000	^	0.011410%	0.114133	^	Ş	2.304	ې 0.54		12	-	\$ 4.00	, т	3 32.76	_	30.64	Ş U.U3004	TOTAL INOII-	FV
21	1000	х	0.021223%	0 212235	х	Ś	2 964	\$ 0.629		12	=	\$ 7.55	i +	\$ 56.34	=	\$ 63.88	\$ 0.06388	Total DV	
22	1000	^	0.02122370	0.212233	^	Ų	2.304	Ç 0.023	^	12	_	γ /.J.	'	у 30.3 <del>4</del>	_	y 05.00	7 0.00300	TOTAL TV	
23	PV/ Non-P\	<i>/</i> =										185.99	%	106.7%			112 4%	= PV/ Non-	-PV
24	, .,											103.57	. •	100.770			112.470	, .	
25	Surplus Gen	eration \	Valuation Example	e assuming			10.000	MWH of S	Surplu	s Generatio	n			10.000		10.000	X		
26														\$ 563.37		\$ 638.84	_		
27	10,000	х	0.021223%	2.122346	х	\$	2.964	\$ 6.29	X	12			=	\$ 75.48					
28	,,,,,,													\$ 638.84					

	Α	В	С	D	Е	F		G	Н		J	К	L	М	N	0	Р	Q	R
1	LINES 2-15		IC FINAL AVOIDE	D COST CAL	.CULATION		<u> </u>			S USED BY P	UC, Assu	mes \$1/hr.	for ANCILI	ARY SERVICE			ad of Actual	Data	
2	LINES 16-28	B added b	y C. Below 6/5/1	5 to show c	alculations	& comp	arison			Relevant									
3										Rule(s)									
4																			
5	Avoided En	ergy Cost	(All but Solar PV	)		\$ 74	4.65 N	/IWh		Puc 903.02	(i)(2) & (	i)(6) a.	(See "AC	calc" tab)					
6																			
7	Avoided En	ergy Cost	(Solar PV)			\$ 79	9.68 N	/IWh		Puc 903.02	(i)(2) & (	i)(7) b.	(See "AC	calc" tab)					
8																			
9	Avoided Ca	pacity Cos	sts			\$ 2.	.556 k	W-month	1	Puc 903.02	(i)(3)		(See "Cap	acity" tab)					
10																			
			eneration During	Peak Hour		0.0114	116%			Puc 903.02	(i)(6) b.		(See "Cap	acity" tab)					
12		(All but So	olar PV)																
13																			
14		•	eneration During	Peak Hour		0.0284	146%			Puc 903.02	(i)(7) c.		(See "Cap	acity" tab)					
15		(Solar PV)																0.0 ::	•
16				٥/ ٢٠										Avoided			oided Energ		y Costs
17	Conversion	от Сарасі	ty Avoided Cost	as a % of to MWh	tai to kwn			: ¢ /N 4\\ A / I		oided Capad	•	/n 4\A/b /	<del>.</del> +	Energy	=	/MWh	for Surplus G /kWh	eneration	
18 19	1000	x	% kWh at pk. 0.011416%		X		.556 S	in \$/MWI \$ 0.29		ງ. 12	=	/MWh/year \$ 3.50	_	\$/MWh \$ 74.65	=		\$ 0.07815	Total Non	D\/
20	1000	Χ	0.011410%	0.114133	Χ.	<b>ఫ</b> 2	.550 .	) U.25	Χ.	12	_	Ş 3.30	т.	۶ /4.03	_	7 /0.13	\$ 0.07613	TOLAI NOII-	rv
21	1000	х	0.028446%	n 284463	х	\$ 2.	556	\$ 0.727	v	12	=	\$ 8.73	+	\$ 79.68	=	\$ 88.40	\$ 0.08840	Total PV	
22	1000	^	0.02044070	0.204403	Α	Ψ Z.	.550 ,	0.727	^	12	_	γ 0.73	·	φ 73.00	_	φ 00.40	ŷ 0.000 <del>1</del> 0	1000111	
23	PV/ Non-P	/ =										249.2%	ć	106.7%			113.1%	= PV/ Non-	PV
24	,	-										2.5.27		200.770			113.170	,	
25	Surplus Ger	neration V	aluation Exampl	e assuming		10	0.000 N	/IWH of Si	urplu	us Generatio	n			10.000		10.000			
26			ľ	· ·		-								\$ 796.76		\$ 884.01	-		
27	10,000	х	0.028446%	2.844632	х	\$ 2.	.556	\$ 7.27	х	12			=	\$ 87.25					
28														\$ 884.01					

															1				1 -	_
	Α	В	C	D	E	F		G	Н			K		L	M	N	0	Р	Q	R
1	-		C FINAL AVOIDE					WI	тн (	CORRECTED	ACTUAL G	ENERA	TION	RELATED	ANCILLARY S	ERVIC	ES CHARGES	FOR EACH I	HR.	
2	LINES 16-28	added by	C. Below 6/5/15	5 to show ca	alculations	& comparis	ons			Relevant										
3										Rule(s)										
4																				
5	Avoided Ene	rgy Cost	(All but Solar PV)	)		\$ 78.1	8 M	Wh		Puc 903.02	i)(2) & (i)(	6) a.		(See "AC c	alc (2)" tab)					
6																				
7	Avoided Ene	rgy Cost	(Solar PV)			\$ 83.4	6 M'	Wh		Puc 903.02	i)(2) & (i)(	7) b.		(See "AC c	alc (2)" tab)					
8																				
9	Avoided Car	acity Cos	its			\$ 2.55	6 kV	V-month		Puc 903.02	i)(3)			(See "Capa	city" tab)					
10																				
11	Portion of S	ırplus Ge	neration During	Peak Hour		0.011416	%			Puc 903.02	i)(6) b.			(See "Capa	city" tab)					
12	(	All but Sc	olar PV)																	
13																				
14	Portion of S	ırplus Ge	neration During	Peak Hour		0.028446	%			Puc 903.02	i)(7) c.			(See "Capa	acity" tab)					
15	]	Solar PV)																		
16															Avoided		Total Av	oided Energ	y & Capacit	y Costs
17	Conversion	of Capacit	ty Avoided Cost a	as a % of tot	tal to kWh				Α	voided Capa	city Cost			+	Energy	=	f	or Surplus G	eneration	
18			% kWh at pk.	MWh		kW-month	n ir	n \$/MWh	n/mo	).	in \$	/MWh,	/year	_	\$/MWh		/MWh	/kWh	_	
19	1000	X	0.011416%	0.114155	Х	\$ 2.55	6 \$	0.29	Х	12	=	\$ :	3.50	+	\$ 78.18	=	\$ 81.69	\$ 0.08169	<b>Total Non-</b>	-PV
20																				
21	1000	X	0.028446%	0.284463	Х	\$ 2.55	6 \$	0.727	Х	12	=	\$	8.73	+	\$ 83.46	=	\$ 92.19	\$ 0.09219	Total PV	
22																				
23	PV/ Non-PV	=										24	9.2%		106.8%			112.9%	s = PV/ Non-	-PV
24																				
25	Surplus Gen	eration V	aluation Example	e assuming		10.00	0 <mark>0</mark> M	WH of Su	ırplu	ıs Generatior	1				10.000		10.000			
26															\$ 834.62		\$ 921.88			
27	10,000	х	0.028446%	2.844632	х	\$ 2.55	6 \$	7.27	х	12				=	\$ 87.25					
28															\$ 921.88					

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# **ELECTRIC INFORMATION FOR SUPPLIERS & AGGREGATORS**

Eversource welcomes the competitive electric market as well as the opportunity to meet and support energy suppliers and aggregators.

Following is information for energy suppliers and aggregators in order to facilitate participation in the competitive energy market.

## LOAD SHAPE PROFILES

The methodology used to estimate supplier loads is described in the Terms and Conditions for Energy Service Providers section of the currently effective <u>Electric Delivery Service Tariff (/Content/docs/default-source/nh---pdfs/electric-delivery-service-tariff2386960f1b5267e39dbdff0000e2e88e.pdf? sfvrsn=0)</u>. In compliance with the terms and conditions, Eversource is providing the hourly load shapes for various customer classes which are used to estimate these supplier loads.

To download the average hourly data for a specific customer class, select the MS Excel file format and save the file to your hard drive. Once the file is saved, it can be imported into most spreadsheet programs.

Rate Type	Adobe PDF	Microsoft Excel
Residential Service (Rate R)	PDF (/Content/docs/default-source/nh pdfs/rate r.pdf?sfvrsn=0)	Excel (/Content/docs/default-source/nh pdfs/rate r9d49940f1b5267e39dbdff0000e2e88e.xlsx?sfvrsn=0)
General Service (Rate G)	PDF (/Content/docs/default-source/nh pdfs/rate_g.pdf?sfvrsn=0)	Excel (/Content/docs/default-source/nh pdfs/rate_gb649940f1b5267e39dbdff0000e2e88e.xlsx?sfvrsn=0)
Primary General Service (Rate GV)	PDF (/Content/docs/default-source/nh pdfs/rate_gv.pdf?sfvrsn=0)	Excel (/Content/docs/default-source/nh pdfs/rate_gvc349940f1b5267e39dbdff0000e2e88e.xlsx?sfvrsn=0)
Large General Service (Rate LG)	PDF (/Content/docs/default-source/nh pdfs/rate_lg.pdf?sfvrsn=0)	Excel (/Content/docs/default-source/nh pdfs/rate lgd049940f1b5267e39dbdff0000e2e88e.xlsx?sfvrsn=0)
Outdoor Lighting Service (Rate OL & EOL)	PDF (/Content/docs/default-source/nh pdfs/rate_ol.pdf?sfvrsn=0)	Excel (/Content/docs/default-source/nhpdfs/rate_oldd49940f1b5267e39dbdff0000e2e88e.xlsx?sfvrsn=0)

# **LOSS FACTORS**

The loss factors below are utilized to calculate losses, which will then be added to actual or estimated load to arrive at total supplier assigned load. The loss factors below do not include transmission losses.

Rate Type	Loss Factors
Rate R - Residential	7.75%
Rate G - Small Commercial, < 100KW	7.75%
Rate GV - Customers between 100 KW - 1000 KW	6.31%
Rate LG - Customers > 1000 KW	4.42%
Rate OL & EOL - Outdoor Lighting	7.72%

# **CAPACITY UNACCOUNTED FOR ENERGY (UFE) INFORMATION**

This daily Unaccounted for Energy (UFE) value reflects the difference between the day's sum of the individual Eversource customer coincident peak capacity values (inclusive of non-Pool Transmission Facility losses) and the total Eversource system peak load for the applicable capability year.

This training session is required and can be arranged by contacting PSNH's supplier contact personnel who provide this training for suppliers interested in energy supply services in New Hampshire.

#### Load Profiles

### Class Average Load Profiles (Excel) (>)

#### Distribution System Loss Factors

Rate Class	Distribution Loss Factor
G2	6.392%
OL	6.468%
D	6.468%
G1	4.591%

#### Forms



**New Hampshire Interval Data Request Form** 



ISO New England Load Asset Registration Form for New Hampshire (Excel)

## **Unitil Contact Information**

Lisa Glover Energy Analyst II Fax: 603-773-6647 Phone: 603-773-6444

el\_supplierservices@unitil.com

# Manage Your Account

Login to manage your account online.

login.₊



When an outage occurs, we keep you informed—and restore power quickly and safely. Watch How →

				_	_	-						
_	А	В	С	D	E	F	G	H	I			
2												
	System Losses by Company (from FERC Form 1, page 401a)											
4												
5			Total	Total								
6			MWh	Energy	Loss							
7			Acquired	Losses	Percentage							
8	GSEC		504,970	9,660	1.91%	2015						
9	PSNH		8,697,124	255,592	2.94%	2015						
10	UES		710,669	42,780	6.02%	2015						
11												
12	Totals	i	9,912,763	308,032	3.11%		Multiplier	1.0690	from line 46			
13							-					
_	Notes:	a) NHFC do	pes not file a FERC Form 1, so percenta	ge used is a weigh	nted average o	f the other thi	ree utilities					
15	Notes.	a) mile a	jes not me a rene rom 1, so percente	ige asea is a weigi	itea average o	r the other th	ee dimeres.					
	Revise Loss Factor so	it grosses i	l p from Distribution load/generation ra	ather than grossing	g down from w	holesale sunr	alv.					
17	Nevise Loss Factor So	it grosses t	p from Distribution load/generation is	attier than grossing	g down nom w	molesale supp	Jiy.					
18	-		Total	Total	Total							
_												
19			MWh	Energy	Energy	Loss						
20			Acquired	Losses	Supplied	Factor						
	GSEC		504,970	9,660	495,310	1.95%						
22	PSNH		8,697,124	255,592	8,441,532	3.03%						
				42,780	667,889	6.41%	2015					
	UES		710,669	42,760	007,005							
23 24	UES			42,780	007,003							
23	UES Totals	i	9,912,763	308,032	9,604,731	3.21%		Multiplier	1.0321			
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23 24 25 26	Totals		9,912,763	308,032	9,604,731	3.21%		·				
23 24 25 26 27	Totals  Alternate calculation	of average	9,912,763  Loss Factor, using utility specific loss factor.	308,032	9,604,731	3.21% on meter poir	nt load to wh	olesale me	eter points			
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23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	Alternate calculation from current data on respective FERC Form  https://www.everso http://unitil.com/ene https://www.puc.nh.  Utility PSNH/Eversource	of average Eversoure ns 1, page 3  urce.com/C ergy-for-bus gov/Electric  Line # 5 11 12 13 14 23 4	9,912,763  Loss Factor, using utility specific loss fand Unitil websites listed below (GSEC 04, found at 3rd link below (for CY 201 ontent/nh/about/doing-business-with inesses/electric-information/energy-sc/AnnualReports.html  Description R-Residential R- OTOD - Time of Day OL - Outdoor Lighting LCS - Load Controlled [Res] G - General Service G - OTOD - Time of Day LG - Large Controlled GV - Primary General EOL/OL - Outdoor Lighting Total Billed Residential	308,032  actors used to gros /LU not available) .4). Line #s, Descr  -us/energy-suppli upply-options/con  MWh Sold 3,142,020 455 1,780 40,579 1,691,888 1,364 1,248,584 35,850 22,272 509,757	9,604,731  as up distribution matched again riptions and Mineral matched for 7.75% 7.75% 7.75% 7.75% 4.42% 6.31% 7.72% 6.468%	3.21%  on meter points identifiable wh Sold are from the second of the s	nt load to whe matching lo	polesale me pads by rat rm 1, p. 30	eter points			
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44	Alternate calculation from current data on respective FERC Form https://www.eversohttps://www.puc.nh.  Utility PSNH/Eversource	of average Eversoure ns 1, page 3  urce.com/C ergy-for-bus gov/Electric  Line # 2 3 4 5 11 12 13 14 23 4 9	9,912,763  Loss Factor, using utility specific loss fand Unitil websites listed below (GSEC 04, found at 3rd link below (for CY 201 ontent/nh/about/doing-business-with inesses/electric-information/energy-sc/AnnualReports.html  Description R-Residential R- OTOD - Time of Day OL - Outdoor Lighting LCS - Load Controlled [Res] G - General Service G - OTOD - Time of Day LG - Large Controlled GV - Primary General EOL/OL - Outdoor Lighting Total Billed Residential [C&I] - Regular General	308,032  actors used to gros /LU not available) .4). Line #s, Descr  -us/energy-suppli upply-options/con  MWh Sold 3,142,020 455 1,780 40,579 1,691,888 1,364 1,248,584 35,850 22,272 509,757 314,896	9,604,731  as up distribution matched again interceptions and Mineral matched again interception in the matched again	3.21%  on meter points identifiable Wh Sold are from the second of the s	nt load to whe matching lo	polesale me pads by rat rm 1, p. 30	eter points			
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Alternate calculation from current data on respective FERC Form https://www.eversohttps://www.puc.nh.  Utility PSNH/Eversource PSNH/Eversource PSNH/Eversource PSNH/Eversource PSNH/Eversource PSNH/Eversource PSNH/Eversource PSNH/Eversource PSNH/Eversource Unitil Energy Sys Unitil Energy Sys	of average Eversoure ns 1, page 3  urce.com/C ergy-for-bus gov/Electric  Line # 2 3 4 5 11 12 13 14 23 4 9 10	9,912,763  Loss Factor, using utility specific loss fand Unitil websites listed below (GSEC 04, found at 3rd link below (for CY 201 ontent/nh/about/doing-business-with inesses/electric-information/energy-sc/AnnualReports.html  Description  R-Residential  R- OTOD - Time of Day  OL - Outdoor Lighting  LCS - Load Controlled [Res]  G - General Service  G - OTOD - Time of Day  LG - Large Controlled  GV - Primary General  EOL/OL - Outdoor Lighting  Total Billed Residential  [C&I] - Regular General	308,032 actors used to gros /LU not available) .4). Line #s, Descr  -us/energy-suppli upply-options/con  MWh Sold 3,142,020 455 1,780 40,579 1,691,888 1,364 1,248,584 35,850 22,272 509,757 314,896 280,628	9,604,731  as up distributi matched again iptions and Miner-information mpetitive-supp  Loss Factor 7.75% 7.75% 7.75% 7.75% 4.42% 6.31% 7.72% 6.468% 6.392% 4.591%	3.21%  on meter points identifiable Wh Sold are from the second of the s	nt load to whe matching lo	polesale me pads by rat rm 1, p. 30	eter points			
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Alternate calculation from current data on respective FERC Form https://www.eversohttps://www.puc.nh.  Utility PSNH/Eversource	of average Eversoure ns 1, page 3  urce.com/C ergy-for-bus gov/Electric  Line # 2 3 4 5 11 12 13 14 23 4 9	9,912,763  Loss Factor, using utility specific loss fand Unitil websites listed below (GSEC 04, found at 3rd link below (for CY 201 ontent/nh/about/doing-business-with inesses/electric-information/energy-sc/AnnualReports.html  Description R-Residential R- OTOD - Time of Day OL - Outdoor Lighting LCS - Load Controlled [Res] G - General Service G - OTOD - Time of Day LG - Large Controlled GV - Primary General EOL/OL - Outdoor Lighting Total Billed Residential [C&I] - Regular General	308,032  actors used to gros /LU not available) .4). Line #s, Descr  -us/energy-suppli upply-options/con  MWh Sold 3,142,020 455 1,780 40,579 1,691,888 1,364 1,248,584 35,850 22,272 509,757 314,896	9,604,731  as up distribution matched again interceptions and Mineral matched again interception in the matched again	3.21%  on meter points identifiable Wh Sold are from the second of the s	nt load to whe matching lo	polesale me pads by rat rm 1, p. 30	eter points			

	Δ	В	С	D	F	F	G	н	1	К	П	М	N	0	Р	Q	R
1	LINES 3-15		C FINAL AVOIDE		CULATION	<u> </u>		H CORRECTED	ACTUAL GE	NERATION	RELA		ARY SE		RGES FOR EAC		
2	1	•			& comparisons Relevant				WITH REVISED LINE LOSS FACTOR								
3	3					Rule(s)											
4																	
5	Avoided En	ergy Cost	All but Solar PV	)		\$ 32.97	MWh	Puc 903.0	2 (i)(2) & (i	)(6) a.	(See	"AC calc (2)	" tab)				
6																	
7	Avoided En	ergy Cost	(Solar PV)			\$ 35.34	MWh	Puc 903.0	2 (i)(2) & (i	)(7) b.	(See	"AC calc (2)	" tab)				
8																	
9	Avoided Ca	pacity Cos	ts			\$ 3.226	kW-month	Puc 903.0	)2 (i)(3)		(See	"Capacity"	tab)				
10									- 4-14-1				<u> </u>				
11	ł		neration During	Peak Hour		0.0114169	6	Puc 903.0	)2 (i)(6) b.		(See	"Capacity" 1	tab)				
12		(All but So	lar PV)														
13 14	Doution of (	Complete Co	namatian Dumina	Dook House		0.0098539	1	D 002 0	12 (:)/7\ 0		1000	Camaaituu   #	tab\				
15		(Solar PV)	neration During	Peak Hour		0.0098537	0	Puc 903.0	12 (I)(7) C.		(See	"Capacity" 1	lab)				
16		(Solal PV)										Avoided		Total Av	oided Energy	& Canacity	Costs
17	Conversion	of Canacit	y Avoided Cost	as a % of to	tal to kWh	h Avoided Capacity Cost					+						Costs
18	Conversion	or capacit	% kWh at pk.		tar to kvvii		in \$/MWI			/MWh/year	_	\$/MWh		/MWh	/kWh		
19	1000	х	0.011416%		×		\$ 0.37			\$ 4.42	_	\$ 32.97	- =	\$ 37.39		_ Total Non	-PV
20							,			•		,		,			
21	1000	х	0.009853%	0.09853	x	\$ 3.226	\$ 0.318	x 12	=	\$ 3.81	+	\$ 35.34	=	\$ 39.15	\$ 0.03915	Total PV	
22																	
23	PV/ Non-P	V =								86.3%		107.2%			104.7%	s = PV/ Non	ı-PV
24																	
25						7.14	MWH of S	urplus Generat	ion			7.140	_	7.140	Х		
26												\$ 252.30		\$ 279.54	=		
27	7,140	х	0.009853%	0.703506	х	\$ 3.226	\$ 2.27	x 12			=	\$ 27.24	_				
28												\$ 279.54					