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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017
(Dollars in 000s)

Summary of Forecasted Energy Service

Cost For January 2017 through December 2017	TOTAL COST	Cents per KWH	Reference
Fossil energy costs	\$ 29,152	\$ 0.89	Attachment CJG-2, page 2
F/H O&M, depreciation & taxes	109,648	\$ 3.35	Attachment CJG-2, page 2
Return on rate base	44,365	\$ 1.35	Attachment CJG-2, page 2
ISO-NE ancillary	1,321	\$ 0.04	Attachment CJG-2, page 2
Capacity	(22,396)	\$ (0.68)	Attachment CJG-2, page 2
NH RPS	27,608	\$ 0.84	Attachment CJG-2, page 2
Seabrook costs / (credits)	-	\$ -	Attachment CJG-2, page 2
Vermont Yankee	(13)	\$ (0.00)	Attachment CJG-2, page 2
RGGI costs	577	\$ 0.02	Attachment CJG-2, page 2
IPP costs (*)	8,450	\$ 0.26	Attachment CJG-2, page 2
Burgess BioPower	36,053	\$ 1.10	Attachment CJG-2, page 2
Purchases and sales	71,339	\$ 2.18	Attachment CJG-2, page 2
Return on ES Deferral	284	\$ 0.01	Attachment CJG-2, page 2
2016 Actual ES under recovery	10,732		
Total Updated Energy Service Cost	\$ 317,120		
Total Updated Revenue	308,930		
2017 ES (Over)/Under Recovery	8,190		
Forecasted Retail MWH Sales July - December 2017	1,665,924		
Change to Energy Service Rate - cents per kwh	0.49		
Energy Service Rate as approved in DE 16-822 - cents per kwh	9.45		
Updated Energy Service Rate w/o Scrubber - cents per kwh	9.94		
Plus Scrubber ES Rate cents per kwh per DE 11-250	1.72		
Total Updated Energy Service Rate Effective 7/1/17 - cents per kwh	11.66		

(*) The IPP costs represent the forecasted market value of IPP generation.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017
(Dollars in 000s)

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<u>Energy Service Cost</u>	January 2017 Actual	February 2017 Actual	March 2017 Actual	April 2017 Actual	May 2017 Actual	June 2017 Estimate	Total	Reference
Fossil energy costs	\$ 3,504	\$ 4,093	\$ 2,128	\$ 2,408	\$ 3,837	\$ 2,473	\$ 18,443	CJG-2, P3, Lines 12+15+16
F/H O&M, depreciation & taxes	9,129	7,920	8,239	10,221	9,635	8,913	54,058	CJG-2, P5, Line 20
Return on rate base	3,743	3,728	3,674	3,711	3,720	3,766	22,342	CJG-2, P6, Line 28
ISO-NE ancillary	315	492	428	359	(1,568)	226	253	CJG-2, P3, Line 48
Capacity	(942)	(961)	(990)	(1,009)	(993)	(2,542)	(7,437)	CJG-2, P3, Line 53
NH RPS	5,732	2,314	2,286	2,260	2,474	1,691	16,756	CJG-2, P3, Line 49
Seabrook costs / (credits)	-	-	-	-	-	-	-	
Vermont Yankee	0	3	1	(20)	3	-	(13)	
RGGI costs	96	109	32	6	49	54	346	CJG-2, P3, Line 50
IPP costs (*)	790	499	620	718	586	562	3,776	CJG-2, P3, Lines 25+26
Burgess BioPower	2,857	2,304	3,545	2,466	3,582	3,124	17,879	CJG-2, P3, Lines 29+30
Purchases and sales (inc. Congestion and Loss Adj.)	6,449	4,749	7,201	6,180	6,305	3,768	34,652	CJG-2, P3, Lines 33+34+37
Return on ES Deferral	20	20	21	27	37	43	168	
2016 Actual ES under recovery	10,732						10,732	
Total Energy Service Cost	\$ 42,425	\$ 25,271	\$ 27,187	\$ 27,327	\$ 27,666	\$ 22,078	\$ 171,953	
Total Energy Service Revenue at 9.45 cents/kwh	\$ 31,732	\$ 25,122	\$ 26,234	\$ 22,499	\$ 21,389	\$ 24,524	\$ 151,500	
ES Under/(Over) Recovery	10,693	149	952	4,828	6,277	(2,446)	20,453	
Forecasted Retail MWH Sales	340,041	263,673	279,703	238,992	227,365	259,514	1,609,288	
Energy Service Cost - cents per kwh	12.48	9.58	9.72	11.43	12.17	8.51	10.69	

(*) The IPP costs represent the forecasted market value of IPP generation.

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017
(Dollars in 000s)

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	July 2017 Estimate	August 2017 Estimate	September 2017 Estimate	October 2017 Estimate	November 2017 Estimate	December 2017 Estimate	Total	Reference
Energy Service Cost								
Fossil energy costs	\$ 1,332	\$ 1,053	\$ 1,228	\$ 1,053	\$ 1,019	\$ 5,023	\$ 29,152	CJG-2, P3, Lines 12+15+16+19+22
F/H O&M, depreciation & taxes	9,671	9,202	9,124	9,445	8,575	9,574	109,648	CJG-2, P5, Line 20
Return on rate base	3,755	3,691	3,673	3,652	3,629	3,624	44,365	CJG-2, P6, Line 28
ISO-NE ancillary	234	229	158	132	123	193	1,321	CJG-2, P3, Line 48
Capacity	(2,264)	(2,296)	(2,687)	(2,996)	(2,544)	(2,172)	(22,396)	CJG-2, P3, Line 53
NH RPS	1,995	1,975	1,604	1,548	1,672	2,059	27,608	CJG-2, P3, Line 49
Seabrook costs / (credits)	-	-	-	-	-	-	-	
Vermont Yankee	-	-	-	-	-	-	(13)	
RGGI costs	9	-	7	-	-	215	577	CJG-2, P3, Line 50
IPP costs (*)	706	657	529	714	828	1,241	8,450	CJG-2, P3, Lines 25+26
Burgess BioPower	3,219	3,219	3,124	2,270	3,124	3,219	36,053	CJG-2, P3, Lines 29+30
Purchases and sales (inc. Congestion and Loss Adj.)	7,823	7,834	4,792	4,604	5,492	6,143	71,339	CJG-2, P3, Lines 33+34+37+40+42
Return on ES Deferral	37	29	21	16	9	4	284	
2016 Actual ES under recovery							10,732	
Total Energy Service Cost	\$ 26,515	\$ 25,592	\$ 21,573	\$ 20,438	\$ 21,927	\$ 29,123	\$ 317,120	
Total Energy Service Revenue at 9.45 cents/kwh	\$ 28,946	\$ 28,645	\$ 23,265	\$ 22,456	\$ 24,247	\$ 29,871	\$ 308,930	
ES Under/(Over) Recovery	(2,431)	(3,053)	(1,692)	(2,018)	(2,320)	(748)	8,190	
Forecasted Retail MWH Sales	306,304	303,122	246,192	237,627	256,582	316,095	3,275,212	
Energy Service Cost - cents per kwh	8.66	8.44	8.76	8.60	8.55	9.21	9.68	

(*) The IPP costs represent the forecasted market value of IPP generation.

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017

PSNH Generation (GWh) and Expense (\$000)
IPP's Priced at Market Rate

	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total
Hydro:	30.536	25.810	36.939	41.781	45.005	29.207	22.833	18.681	14.963	22.736	30.128	31.364	349.982
Coal:	42.955	49.862	11.567	(1.100)	3.358	25.692	1.239	0.000	1.239	0.000	0.000	76.581	211.392
\$	2,553	3,125	1,061	2,317	1,654	1,454	70	0	70	0	0	3,969	16,275
Wood:	26.259	25.430	27.849	4.390	26.004	27.554	28.473	28.473	27.554	28.473	27.554	28.473	306.487
\$	1,325	1,341	1,470	308	1,150	1,504	1,555	1,555	1,504	1,555	1,504	1,555	16,327
\$	(519)	(509)	(539)	(244)	(519)	(485)	(501)	(501)	(485)	(501)	(485)	(501)	(5,790)
IC/Jets	0.088	0.110	0.051	0.047	0.439	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.735
\$	23	31	17	8	118	0	0	0	0	0	0	0	198
Newington:	(1.089)	(0.647)	(1.093)	(0.896)	19.940	0.000	3.040	0.000	1.900	0.000	0.000	0.000	21.155
\$	122	105	119	18	1,432	0	208	0	138	0	0	0	2,142
IPP's:	19.002	15.137	17.113	21.675	22.010	17.860	17.627	15.929	13.682	18.466	19.170	21.370	219.040
\$	738	447	569	666	534	410	554	505	371	492	607	1,021	6,914
\$	52	52	52	52	52	152	152	152	159	221	221	220	1,536
Burgess BioPower	45.022	36.758	48.835	33.240	50.195	43.254	44.696	44.696	43.254	30.278	43.254	44.696	508.177
\$	2,579	2,026	3,268	2,188	3,304	2,846	2,941	2,941	2,846	1,992	2,846	2,941	32,719
\$	278	278	278	278	278	278	278	278	278	278	278	278	3,334
Contract Purchases	5.726	5.690	8.894	5.739	5.013	4.037	3.195	2.740	3.320	5.606	6.300	5.991	62.251
\$	825	863	1,109	1,086	1,163	212	168	144	174	294	331	315	6,683
\$	25	25	25	25	25	16	16	16	17	44	44	44	323
Energy Purchases	181.708	169.165	175.287	171.080	131.929	128.468	203.371	210.585	154.885	146.166	145.397	149.367	1,967.408
\$	7,324	5,449	6,830	5,810	4,990	3,514	7,591	7,634	4,568	4,232	5,054	7,021	70,016
Energy Sales	(39.204)	(48.831)	(26.878)	(29.450)	(20.438)	(1.163)	0.000	0.000	0.000	0.000	0.000	(22.995)	(188.958)
\$	(1,724)	(1,589)	(763)	(741)	126	(19)	0	0	0	0	0	(1,456)	(6,166)
Congestion and Loss Adjustment	\$ 0	0	0	0	0	45	48	40	33	33	63	220	483
Total Energy GWh	311.003	278.484	298.564	246.505	283.455	274.909	324.475	321.104	260.797	251.724	271.803	334.847	3,457.670
Total Energy Expense	\$ 13,601	11,645	13,495	11,772	14,310	9,927	13,079	12,763	9,673	8,641	10,463	15,626	144,995
ISO-NE Ancillary	\$ 315	492	428	359	(1,568)	226	234	229	158	132	123	193	1,321
\$	5,732	2,314	2,286	2,260	2,474	1,691	1,995	1,975	1,604	1,548	1,672	2,059	27,608
\$	96	109	32	6	49	54	9	0	7	0	0	215	577
Capacity (sold)/bought MW-mo	(338)	(342)	(351)	(410)	(459)	(380)	(339)	(344)	(385)	(431)	(367)	(314)	(4,459)
Capacity (sold)/bought Cost (\$000)	\$ (942)	(961)	(990)	(1,009)	(993)	(2,542)	(2,264)	(2,296)	(2,687)	(2,996)	(2,544)	(2,172)	(22,396)

Amounts shown above may not add due to rounding.

1 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2 2017 ENERGY SERVICE RATE CALCULATION
3 RATE EFFECTIVE JULY 1, 2017
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6 **Forecasted PSNH IPP Market Value - April - December 2017**
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8	IPP Energy at							
9	IPP	Mkt Value	Capacity	ICAP Value	ICAP	Total	Total	
10	Month	GWh	((\$000))	MW	\$/kw-mo	(\$000)	(\$000)	\$/MWh
11	June	17.860	410	22.7	6.69	152	562	31.46
12	July	17.627	554	22.7	6.68	152	706	40.04
13	August	15.929	505	22.7	6.66	152	657	41.22
14	September	13.682	371	22.7	6.97	159	529	38.67
15	October	18.466	492	31.8	6.96	221	714	38.65
16	November	19.170	607	31.8	6.94	221	828	43.19
17	December	21.370	1,021	31.8	6.93	220	1,241	58.09
18	Total	124.104	3,960			1,276	5,236	42.19

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
Fossil / Hydro O&M, Depreciation & Taxes Detail
RATE EFFECTIVE JULY 1, 2017
(Dollars in 000s)

	January 2017 Actual	February 2017 Actual	March 2017 Actual	April 2017 Actual	May 2017 Actual	June 2017 Estimate	July 2017 Estimate	August 2017 Estimate	September 2017 Estimate	October 2017 Estimate	November 2017 Estimate	December 2017 Estimate	Total
Fossil / Hydro O&M, Depr. & Taxes													
F/H Operation & Maintenance Cost	\$ 5,899	\$ 5,189	\$ 5,353	\$ 7,123	\$ 6,214	\$ 5,947	\$ 6,641	\$ 6,267	\$ 6,204	\$ 6,486	\$ 5,663	\$ 6,662	\$ 73,647
F/H Depreciation Cost	2,073	2,076	2,077	2,116	2,436	2,076	2,071	2,065	2,058	2,058	2,058	2,058	25,220
F/H Property Taxes	922	425	572	764	762	671	671	671	671	671	671	671	8,143
F/H Payroll and Other Taxes	177	172	179	159	164	159	227	138	130	168	121	121	1,915
Amort. of Asset Retirement Obligation	58	58	58	60	60	60	61	61	61	62	62	62	723
Total F/H O&M, Depr. and Taxes	\$ 9,129	\$ 7,920	\$ 8,239	\$ 10,221	\$ 9,635	\$ 8,913	\$ 9,671	\$ 9,202	\$ 9,124	\$ 9,445	\$ 8,575	\$ 9,574	\$ 109,648

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
FOSSIL/HYDRO RETURN ON RATE BASE
RATE EFFECTIVE JULY 1, 2017
(Dollars in 000s)

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	January 2017 Actual	February 2017 Actual	March 2017 Actual	April 2017 Actual	May 2017 Actual	June 2017 Estimate	July 2017 Estimate	August 2017 Estimate	September 2017 Estimate	October 2017 Estimate	November 2017 Estimate	December 2017 Estimate	Total
Return on Rate Base													
Rate base													
Net Plant	289,781	291,079	285,433	286,730	288,027	290,455	280,685	279,016	277,334	275,692	274,031	275,329	
Working Capital Allow. (45 days of O&M)	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390
Fossil Fuel Inventory	99,864	99,864	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311
Mat'ls and Supplies	62,590	62,590	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167
Prepayments	1,724	1,724	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736
Deferred Taxes	(48,091)	(48,483)	(43,889)	(44,281)	(44,672)	(47,159)	(47,120)	(46,333)	(45,591)	(45,450)	(44,260)	(44,651)	(44,651)
Other Regulatory Obligations	(18,921)	(18,921)	(26,028)	(26,028)	(26,028)	(17,098)	(18,599)	(20,100)	(20,512)	(22,014)	(23,516)	(23,516)	(23,516)
Total Rate Base (L15 thru L22)	396,337	397,243	393,120	394,025	394,931	403,802	392,570	390,187	388,835	385,832	383,859	384,766	
Average Rate Base (prev + curr month)	398,420	396,790	395,181	393,572	394,478	399,366	398,186	391,378	389,511	387,333	384,845	384,312	
x Return	0.9395%	0.9395%	0.9395%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%
Return (L25 x L26)	\$ 3,743	\$ 3,728	\$ 3,674	\$ 3,711	\$ 3,720	\$ 3,766	\$ 3,755	\$ 3,691	\$ 3,673	\$ 3,652	\$ 3,629	\$ 3,624	\$ 44,365

Amounts shown above may not add due to rounding.

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017**

**PSNH Generation (GWh) and Expense (\$000)
IPP's Priced at Market Rate**

Line	May 9th Filing	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total
1	Hydro:	30.536	25.810	36.939	41.336	37.156	29.207	22.833	18.681	14.963	22.736	30.128	31.364	341.688
2														
3	Coal:	42.955	49.862	11.567	0.696	0.000	2.478	3.098	0.000	1.239	0.000	0.000	81.640	193.535
4		\$ 2,553	3,125	1,061	1,155	0	137	172	0	70	0	0	4,202	12,476
5														
6	Wood:	26.259	25.430	27.849	7.410	28.473	27.554	28.473	28.473	27.554	28.473	27.554	28.473	311.976
7		\$ 1,325	1,341	1,470	405	1,555	1,504	1,555	1,555	1,504	1,555	1,504	1,555	16,827
8		\$ (519)	(509)	(539)	(143)	(550)	(532)	(550)	(550)	(532)	(550)	(532)	(550)	(6,058)
9														
10	IC/Jets	0.088	0.110	0.051	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.249
11		\$ 23	31	17	0	0	0	0	0	0	0	0	0	71
12														
13	Newington:	(1.089)	(0.647)	(1.093)	0.000	0.000	0.000	3.040	0.000	1.900	0.000	0.000	0.000	2.111
14		\$ 122	105	119	0	0	0	226	0	149	0	0	0	721
15														
16	IPP's:	19.002	15.137	17.113	25.287	21.938	17.860	17.627	15.929	13.682	18.466	19.170	21.370	222.581
17		\$ 738	447	569	719	564	490	619	539	396	524	649	1,064	7,318
18		\$ 52	52	52	76	75	151	150	150	157	219	219	218	1,571
19														
20	Burgess BioPower	45.022	36.758	48.835	29.929	44.696	43.254	44.696	44.696	43.254	30.278	43.254	44.696	499.367
21		\$ 2,579	2,026	3,268	1,969	2,941	2,846	2,941	2,941	2,846	1,992	2,846	2,941	32,137
22		\$ 278	278	278	278	278	278	278	278	278	278	278	278	3,334
23														
24	Contract Purchases	5.726	5.690	8.894	5.642	4.549	4.037	3.195	2.740	3.320	5.606	6.300	5.991	61.691
25		\$ 825	863	1,109	296	239	212	168	144	174	294	331	315	4,969
26		\$ 25	25	25	17	17	16	16	16	17	44	44	44	306
27														
28	Energy Purchases	181.708	169.165	175.287	140.358	105.249	141.771	191.280	199.901	145.901	138.846	137.623	139.452	1,866.542
29		\$ 7,324	5,449	6,830	4,356	2,941	4,415	7,939	7,740	4,588	4,283	5,147	6,820	67,832
30														
31	Energy Sales	(39.204)	(48.831)	(26.878)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	(27.733)	(142.646)
32		\$ (1,724)	(1,589)	(763)	0	0	0	0	0	0	0	0	(1,786)	(5,862)
33														
34	Congestion and Loss Adjustment	\$ 0	0	0	42	55	48	64	49	40	40	73	240	651
35														
36	Total Energy GWH	311.003	278.484	298.564	250.658	242.061	266.161	314.242	310.419	251.813	244.404	264.030	325.253	3,357.093
37	Total Energy Expense	\$ 13,601	11,645	13,495	9,170	8,115	9,565	13,578	12,861	9,688	8,679	10,559	15,339	136,294
38														
39														
40	ISO-NE Ancillary	\$ 315	492	428	178	(1,534)	211	217	212	142	122	112	181	1,077
41	NH RPS	\$ 5,732	2,314	2,286	1,874	1,810	1,990	2,350	2,321	1,883	1,827	1,974	2,432	28,792
42	RGGI Costs	\$ 96	109	32	3	0	9	15	0	7	0	0	227	498
43														
44	Capacity (sold)/bought MW-mo	(338)	(342)	(351)	(410)	(459)	(406)	(366)	(373)	(414)	(453)	(391)	(340)	(4,642)
45	Capacity (sold)/bought Cost (\$000)	\$ (942)	(961)	(990)	(1,140)	(1,269)	(2,689)	(2,421)	(2,462)	(2,857)	(3,124)	(2,686)	(2,330)	(23,873)

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017**

**PSNH Generation (GWh) and Expense (\$000)
IPP's Priced at Market Rate**

Line	June 16th Filing	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total
1	Hydro:	30.536	25.810	36.939	41.781	45.005	29.207	22.833	18.681	14.963	22.736	30.128	31.364	349.982
2														
3	Coal:	42.955	49.862	11.567	(1.100)	3.358	25.692	1.239	0.000	1.239	0.000	0.000	76.581	211.392
4	\$	2,553	3,125	1,061	2,317	1,654	1,454	70	0	70	0	0	3,969	16,275
5														
6	Wood:	26.259	25.430	27.849	4.390	26.004	27.554	28.473	28.473	27.554	28.473	27.554	28.473	306.487
7	\$	1,325	1,341	1,470	308	1,150	1,504	1,555	1,555	1,504	1,555	1,504	1,555	16,327
8	\$	(519)	(509)	(539)	(244)	(519)	(485)	(501)	(501)	(485)	(501)	(485)	(501)	(5,790)
9														
10	IC/Jets	0.088	0.110	0.051	0.047	0.439	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.735
11	\$	23	31	17	8	118	0	0	0	0	0	0	0	198
12														
13	Newington:	(1.089)	(0.647)	(1.093)	(0.896)	19.940	0.000	3.040	0.000	1.900	0.000	0.000	0.000	21.155
14	\$	122	105	119	18	1,432	0	208	0	138	0	0	0	2,142
15														
16	IPP's:	19.002	15.137	17.113	21.675	22.010	17.860	17.627	15.929	13.682	18.466	19.170	21.370	219.040
17	\$	738	447	569	666	534	410	554	505	371	492	607	1,021	6,914
18	\$	52	52	52	52	52	152	152	152	159	221	221	220	1,536
19														
20	Burgess BioPower	45.022	36.758	48.835	33.240	50.195	43.254	44.696	44.696	43.254	30.278	43.254	44.696	508.177
21	\$	2,579	2,026	3,268	2,188	3,304	2,846	2,941	2,941	2,846	1,992	2,846	2,941	32,719
22	\$	278	278	278	278	278	278	278	278	278	278	278	278	3,334
23														
24	Contract Purchases	5.726	5.690	8.894	5.739	5.013	4.037	3.195	2.740	3.320	5.606	6.300	5.991	62.251
25	\$	825	863	1,109	1,086	1,163	212	168	144	174	294	331	315	6,683
26	\$	25	25	25	25	25	16	16	16	17	44	44	44	323
27														
28	Energy Purchases	181.708	169.165	175.287	171.080	131.929	128.468	203.371	210.585	154.885	146.166	145.397	149.367	1,967.408
29	\$	7,324	5,449	6,830	5,810	4,990	3,514	7,591	7,634	4,568	4,232	5,054	7,021	70,016
30														
31	Energy Sales	(39.204)	(48.831)	(26.878)	(29.450)	(20.438)	(1.163)	0.000	0.000	0.000	0.000	0.000	(22.995)	(188.958)
32	\$	(1,724)	(1,589)	(763)	(741)	126	(19)	0	0	0	0	0	(1,456)	(6,166)
33														
34	Congestion and Loss Adjustment	\$ 0	0	0	0	0	45	48	40	33	33	63	220	483
35														
36	Total Energy GWH	311.003	278.484	298.564	246.505	283.455	274.909	324.475	321.104	260.797	251.724	271.803	334.847	3,457.670
37	Total Energy Expense	\$ 13,601	11,645	13,495	11,772	14,310	9,927	13,079	12,763	9,673	8,641	10,463	15,626	144,995
38														
39														
40	ISO-NE Ancillary	\$ 315	492	428	359	(1,568)	226	234	229	158	132	123	193	1,321
41	\$	5,732	2,314	2,286	2,260	2,474	1,691	1,995	1,975	1,604	1,548	1,672	2,059	27,608
42	RGGI Costs	\$ 96	109	32	6	49	54	9	0	7	0	0	215	577
43														
44	Capacity (sold)/bought MW-mo	(338)	(342)	(351)	(410)	(459)	(380)	(339)	(344)	(385)	(431)	(367)	(314)	(4,459)
45	Capacity (sold)/bought Cost (\$000)	\$ (942)	(961)	(990)	(1,009)	(993)	(2,542)	(2,264)	(2,296)	(2,687)	(2,996)	(2,544)	(2,172)	(22,396)

Amounts shown above may not add due to rounding.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017

PSNH Generation (GWh) and Expense (\$000)
IPP's Priced at Market Rate

Line	Variance	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Total
1	Hydro:	-	-	-	0.445	7.849	-	-	-	-	-	-	-	8.294
2														
3	Coal:	-	-	-	(1.796)	3.358	23.214	(1.859)	-	-	-	-	(5.059)	17.858
4		\$ -	-	0	1,163	1,654	1,317	(102)	-	0	-	-	(233)	3,799
5														
6	Wood:	-	-	-	(3.021)	(2.469)	-	-	-	-	-	-	-	(5.490)
7		\$ -	-	-	(96)	(404)	-	-	-	-	-	-	-	(500)
8		\$ -	-	-	(101)	31	47	49	49	47	49	47	49	268
9														
10	IC/Jets	-	-	-	0.047	0.439	-	-	-	-	-	-	-	0.486
11		\$ -	-	-	8	118	-	-	-	-	-	-	-	127
12														
13	Newington:	-	-	-	(0.896)	19.940	-	-	-	-	-	-	-	19.044
14		\$ -	-	-	18	1,432	-	(19)	-	(11)	-	-	-	1,421
15														
16	IPP's:	-	-	-	(3.612)	0.072	-	-	-	-	-	-	-	(3.540)
17		\$ -	-	-	(53)	(30)	(81)	(65)	(34)	(25)	(32)	(42)	(43)	(404)
18		\$ -	-	-	(24)	(23)	2	2	2	2	2	2	2	(35)
19														
20	Burgess BioPower	-	-	-	3.311	5.499	-	-	-	-	-	-	-	8.810
21		\$ -	-	-	219	363	-	-	-	-	-	-	-	582
22		\$ -	-	-	-	-	-	-	-	-	-	-	-	-
23														
24	Contract Purchases	-	-	-	0.096	0.464	-	-	-	-	-	-	-	0.561
25		\$ -	-	-	789.343	924.384	-	-	-	-	-	-	-	1,714
26		\$ -	-	-	8	9	-	-	-	-	-	-	-	17
27														
28	Energy Purchases	-	-	-	30.722	26.680	(13.303)	12.091	10.685	8.984	7.320	7.773	9.914	100.866
29		\$ -	-	-	1,454	2,049	(901)	(348)	(106)	(21)	(51)	(93)	201	2,184
30														
31	Energy Sales	-	-	-	(29.450)	(20.438)	(1.163)	-	-	-	-	-	4.739	(46.312)
32		\$ -	-	-	(741)	126	(19)	-	-	-	-	-	330	(304)
33														
34	Congestion and Loss Adjustment	\$ -	-	-	(42)	(55)	(2)	(16)	(9)	(7)	(6)	(9)	(21)	(168)
35														
36	Total Energy GWh	-	-	-	(4.152)	41.393	8.748	10.233	10.685	8.984	7.320	7.773	9.594	100.577
37	Total Energy Expense	\$ -	-	0	2,602	6,195	362	(499)	(98)	(14)	(38)	(95)	287	8,701
38														
39														
40	ISO-NE Ancillary	\$ -	-	-	181	(34)	15	17	17	15	10	10	13	244
41	NH RPS	\$ -	-	-	386	664	(299)	(354)	(346)	(279)	(279)	(303)	(373)	(1,184)
42	RGGI Costs	\$ -	-	-	3	49	45	(6)	-	(0)	-	-	(12)	79
43														
44	Capacity (sold)/bought MW-mo	-	-	-	-	-	26.111	27.218	28.676	28.288	22.732	24.278	25.950	183
45	Capacity (sold)/bought Cost (\$000)	\$ -	-	-	131	276	148	157	166	170	128	143	157	1,476

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
RATE EFFECTIVE JULY 1, 2017
(Dollars in 000s)

Forecasted PSNH IPP Market Value - January - December 2017

Line		IPP GWh	IPP Energy at		ICAP Value \$/kw-mo	ICAP (\$000)	Total (\$000)	Total \$/MWh
			Mkt Value (\$000)	Capacity MW				
1	January (Actual)	19.002	718	28.0	2.59	72	790	42.22
2	February (Actual)	15.137	428	27.5	2.59	71	499	32.83
3	March (Actual)	17.113	550	28.0	2.53	71	620	35.65
4	April	25.287	719	27.3	2.78	76	795	31.44
5	May	21.938	564	27.3	2.77	75	640	29.16
6	June	17.860	490	22.7	6.63	151	641	35.89
7	July	17.627	619	22.7	6.61	150	769	43.63
8	August	15.929	539	22.7	6.60	150	689	43.25
9	September	13.682	396	22.7	6.90	157	553	40.40
10	October	18.466	524	31.8	6.89	219	743	40.25
11	November	19.170	649	31.8	6.87	219	868	45.27
12	December	21.370	1,064	31.8	6.86	218	1,282	60.00
13	Total	222.581	7,259			1,630	8,889	39.94

Forecasted PSNH IPP Market Value - June - December 2017

Line		IPP GWh	IPP Energy at		ICAP Value \$/kw-mo	ICAP (\$000)	Total (\$000)	Total \$/MWh
			Mkt Value (\$000)	Capacity MW				
14	January (Actual)	19.002	718	28.0	2.59	72	790	42.22
15	February (Actual)	15.137	428	27.5	2.59	71	499	32.83
16	March (Actual)	17.113	550	28.0	2.53	71	620	35.65
17	April (Actual)	21.676	647	28.0	2.54	71	718	33.10
18	May (Actual)	22.010	514	28.0	2.57	72	585	26.60
19	June	17.860	410	22.7	6.69	152	562	31.46
20	July	17.627	554	22.7	6.68	152	706	40.04
21	August	15.929	505	22.7	6.66	152	657	41.22
22	September	13.682	371	22.7	6.97	159	529	38.67
23	October	18.466	492	31.8	6.96	221	714	38.65
24	November	19.170	607	31.8	6.94	221	828	43.19
25	December	21.370	1,021	31.8	6.93	220	1,241	58.09
26	Total	219.041	6,815			1,634	8,449	38.57

Forecasted PSNH IPP Market Value

Line		IPP GWh	IPP Energy at		ICAP Value \$/kw-mo	ICAP (\$000)	Total (\$000)	Total \$/MWh
			Mkt Value (\$000)	Capacity MW				
27	January (Actual)	0.000	0	0.0	0.00	0	0	0.00
28	February (Actual)	0.000	0	0.0	0.00	0	0	0.00
29	March (Actual)	0.000	0	0.0	0.00	0	0	0.00
30	April	(3.611)	(73)	0.7	(0.25)	(5)	(77)	1.66
31	May	0.072	(51)	0.7	(0.20)	(3)	(54)	(2.56)
32	June	0.000	(81)	0.0	0.07	2	(79)	(4.43)
33	July	0.000	(65)	0.0	0.07	2	(63)	(3.59)
34	August	0.000	(34)	0.0	0.07	2	(32)	(2.03)
35	September	0.000	(25)	0.0	0.07	2	(24)	(1.73)
36	October	0.000	(32)	0.0	0.07	2	(30)	(1.60)
37	November	0.000	(42)	0.0	0.07	2	(40)	(2.08)
38	December	0.000	(43)	0.0	0.07	2	(41)	(1.91)
39	Total	(3.539)	(444)			4	(440)	(1.36)

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
2017 ENERGY SERVICE RATE CALCULATION
Fossil / Hydro O&M, Depreciation & Taxes Detail
RATE EFFECTIVE JULY 1, 2017
(Dollars in 000s)

Line	May 9th Filing	Actual Jan 2017	Actual Feb 2017	Actual Mar 2017	Forecast Apr 2017	Forecast May 2017	Forecast Jun 2017	Forecast Jul 2017	Forecast Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Total
1	F/H Operation & Maintenance Cost	\$ 5,899	\$ 5,189	\$ 5,379	\$ 9,856	\$ 6,705	\$ 5,482	\$ 6,176	\$ 5,803	\$ 5,741	\$ 6,022	\$ 5,198	\$ 6,197	\$ 73,647
2	F/H Depreciation Cost	2,073	2,076	2,077	2,077	2,077	2,077	2,075	2,069	2,062	2,062	2,062	2,062	24,847
3	F/H Property Taxes	922	425	572	671	671	671	671	671	671	671	671	671	7,960
4	F/H Payroll and Other Taxes	177	172	179	77	182	159	227	138	130	168	121	121	1,851
5	Amort. of Asset Retirement Obligation	58	58	58	60	60	60	61	61	61	62	62	62	724
6														
7	Total F/H O&M, Depr. and Taxes	\$ 9,129	\$ 7,920	\$ 8,266	\$ 12,741	\$ 9,695	\$ 8,449	\$ 9,210	\$ 8,742	\$ 8,665	\$ 8,985	\$ 8,114	\$ 9,113	\$ 109,027

Line	June 16th Filing	Actual Jan 2017	Actual Feb 2017	Actual Mar 2017	Actual Apr 2017	Actual May 2017	Forecast Jun 2017	Forecast Jul 2017	Forecast Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Total
8	F/H Operation & Maintenance Cost	\$ 5,899	\$ 5,189	\$ 5,353	\$ 7,123	\$ 6,214	\$ 5,947	\$ 6,641	\$ 6,267	\$ 6,204	\$ 6,486	\$ 5,663	\$ 6,662	\$ 73,647
9	F/H Depreciation Cost	2,073	2,076	2,077	2,116	2,436	2,076	2,071	2,065	2,058	2,058	2,058	2,058	25,220
10	F/H Property Taxes	922	425	572	764	762	671	671	671	671	671	671	671	8,143
11	F/H Payroll and Other Taxes	177	172	179	159	164	159	227	138	130	168	121	121	1,915
12	Amort. of Asset Retirement Obligation	58	58	58	60	60	60	61	61	61	62	62	62	723
13														
14	Total F/H O&M, Depr. and Taxes	\$ 9,129	\$ 7,920	\$ 8,239	\$ 10,221	\$ 9,635	\$ 8,913	\$ 9,671	\$ 9,202	\$ 9,124	\$ 9,445	\$ 8,575	\$ 9,574	\$ 109,648

Line	Variance	Jan 2017	Feb 2017	Mar 2017	Apr 2017	May 2017	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	Total
15	F/H Operation & Maintenance Cost	\$ -	\$ -	\$ 26	\$ 2,733	\$ 491	\$ (465)	\$ (465)	\$ (464)	\$ (463)	\$ (464)	\$ (465)	\$ (465)	\$ (0)
16	F/H Depreciation Cost	0	0	0	(39)	(359)	1	4	4	4	4	4	4	(373)
17	F/H Property Taxes	0	0	0	(92)	(91)	0	0	0	0	0	0	0	(183)
18	F/H Payroll and Other Taxes	0	0	0	(82)	18	0	0	0	0	0	0	0	(64)
19	Amort. of Asset Retirement Obligation	0	0	0	0	0	0	0	0	0	0	0	0	1
20														
21	Total F/H O&M, Depr. and Taxes	\$ -	\$ -	\$ 26	\$ 2,520	\$ 60	\$ (464)	\$ (461)	\$ (460)	\$ (459)	\$ (460)	\$ (461)	\$ (461)	\$ (620)

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY
 2017 ENERGY SERVICE RATE CALCULATION
 FOSSIL/HYDRO RETURN ON RATE BASE
 RATE EFFECTIVE JULY 1, 2017
 (Dollars in 000s)

Line	May 9th Filing	Actual Jan 2017	Actual Feb 2017	Actual Mar 2017	Forecast Apr 2017	Forecast May 2017	Forecast Jun 2017	Forecast Jul 2017	Forecast Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Total
<u>Rate base</u>														
1	Net Plant	289,781	291,079	292,376	287,861	289,158	290,455	280,685	279,016	277,334	275,692	274,031	275,329	
2														
3	Working Capital Allow. (45 days of O&M)	9,364	9,364	9,364	9,364	9,364	9,364	9,364	9,364	9,364	9,364	9,364	9,364	9,364
4	Fossil Fuel Inventory	99,864	99,864	99,864	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311
5	Mat'ls and Supplies	62,590	62,590	62,590	62,590	62,590	62,590	62,590	62,590	62,590	62,590	62,590	62,590	62,590
6	Prepayments	1,724	1,724	1,724	1,724	1,724	1,724	1,724	1,724	1,724	1,724	1,724	1,724	1,724
7	Deferred Taxes	(48,091)	(48,483)	(48,875)	(44,708)	(43,912)	(47,159)	(47,120)	(46,333)	(45,591)	(45,450)	(44,260)	(44,651)	(44,651)
8	Other Regulatory Obligations	(18,921)	(18,921)	(18,921)	(26,319)	(28,007)	(17,098)	(18,599)	(20,100)	(20,512)	(22,014)	(23,516)	(23,516)	(23,516)
9	Total Rate Base (L1 thru L8)	396,311	397,217	398,122	388,823	389,228	398,187	386,955	384,572	383,220	380,217	378,244	379,151	
10														
11	Average Rate Base (prev + curr month)	398,406	396,764	397,669	393,472	389,025	393,707	392,571	385,763	383,896	381,718	379,230	378,697	
12	x Return	0.9395%	0.9395%	0.9395%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	
13	Return on Rate Base (L11 x L12)	\$ 3,743	\$ 3,728	\$ 3,736	\$ 3,710	\$ 3,668	\$ 3,712	\$ 3,702	\$ 3,638	\$ 3,620	\$ 3,599	\$ 3,576	\$ 3,571	\$ 44,003

Line	June 16th Filing	Actual Jan 2017	Actual Feb 2017	Actual Mar 2017	Actual Apr 2017	Actual May 2017	Forecast Jun 2017	Forecast Jul 2017	Forecast Aug 2017	Forecast Sep 2017	Forecast Oct 2017	Forecast Nov 2017	Forecast Dec 2017	Total
<u>Rate base</u>														
14	Net Plant	289,781	291,079	285,433	286,730	288,027	290,455	280,685	279,016	277,334	275,692	274,031	275,329	
15														
16	Working Capital Allow. (45 days of O&M)	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390	9,390
17	Fossil Fuel Inventory	99,864	99,864	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311	98,311
18	Mat'ls and Supplies	62,590	62,590	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167	68,167
19	Prepayments	1,724	1,724	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736	1,736
20	Deferred Taxes	(48,091)	(48,483)	(43,889)	(44,281)	(44,672)	(47,159)	(47,120)	(46,333)	(45,591)	(45,450)	(44,260)	(44,651)	(44,651)
21	Other Regulatory Obligations	(18,921)	(18,921)	(26,028)	(26,028)	(26,028)	(17,098)	(18,599)	(20,100)	(20,512)	(22,014)	(23,516)	(23,516)	(23,516)
22	Total Rate Base (L14 thru L22)	396,337	397,243	393,120	394,025	394,931	403,802	392,570	390,187	388,835	385,832	383,859	384,766	
23														
24	Average Rate Base (prev + curr month)	398,420	396,790	395,181	393,572	394,478	399,366	398,186	391,378	389,511	387,333	384,845	384,312	
25	x Return	0.9395%	0.9395%	0.9395%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	0.9430%	
26	Return on Rate Base (L24 x L25)	\$ 3,743	\$ 3,728	\$ 3,674	\$ 3,711	\$ 3,720	\$ 3,766	\$ 3,755	\$ 3,691	\$ 3,673	\$ 3,652	\$ 3,629	\$ 3,624	\$ 44,365

Line	Variance	Jan 2017	Feb 2017	Mar 2017	Apr 2017	May 2017	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	Total
<u>Rate base</u>														
27	Net Plant	-	-	6,943	1,131	1,131	-	-	-	-	-	-	-	-
28														
29	Working Capital Allow. (45 days of O&M)	(26)	(26)	(26)	(26)	(26)	(26)	(26)	(26)	(26)	(26)	(26)	(26)	(26)
30	Fossil Fuel Inventory	-	-	1,553	-	-	-	-	-	-	-	-	-	-
31	Mat'ls and Supplies	-	-	(5,577)	(5,577)	(5,577)	(5,577)	(5,577)	(5,577)	(5,577)	(5,577)	(5,577)	(5,577)	(5,577)
32	Prepayments	-	-	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)	(12)
33	Deferred Taxes	-	-	(4,986)	(427)	760	-	-	-	-	-	-	-	-
34	Other Regulatory Obligations	-	-	7,107	(291)	(1,979)	-	-	-	-	-	-	-	-
35	Total Rate Base	(26)	(26)	5,002	(5,202)	(5,703)	(5,615)	(5,615)	(5,615)	(5,615)	(5,615)	(5,615)	(5,615)	(5,615)
36														
37	Average Rate Base (prev + curr month)	(13)	(26)	2,488	(100)	(5,452)	(5,659)	(5,615)	(5,615)	(5,615)	(5,615)	(5,615)	(5,615)	(5,615)
38	x Return	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
39	Return on Rate Base	\$ (0)	\$ (0)	\$ 62	\$ (1)	\$ (51)	\$ (53)	\$ (53)	\$ (53)	\$ (53)	\$ (53)	\$ (53)	\$ (53)	\$ (362)