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**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY**  
**2016 ENERGY SERVICE RATE CALCULATION**  
**RATE EFFECTIVE JULY 1, 2016**  
**(Dollars in 000s)**

9 **Summary of Forecasted Energy Service**

10 **Cost For January 2016 Through December 2016**

	TOTAL COST	Cents per KWH	Reference
12 Fossil energy costs	\$ 32,504	\$ 0.92	Attachment CJG-2, page 2
13 F/H O&M, depreciation & taxes	118,136	\$ 3.36	Attachment CJG-2, page 2
14 Return on rate base	43,081	\$ 1.22	Attachment CJG-2, page 2
15 ISO-NE ancillary	251	\$ 0.01	Attachment CJG-2, page 2
16 Capacity	(10,699)	\$ (0.30)	Attachment CJG-2, page 2
17 NH RPS	11,305	\$ 0.32	Attachment CJG-2, page 2
18 Seabrook costs / (credits)	(182)	\$ (0.01)	Attachment CJG-2, page 2
19 Vermont Yankee	(50)	\$ (0.00)	Attachment CJG-2, page 2
20 RGGI costs	1,080	\$ 0.03	Attachment CJG-2, page 2
21 IPP costs (*)	8,636	\$ 0.25	Attachment CJG-2, page 2
22 Burgess BioPower	38,904	\$ 1.11	Attachment CJG-2, page 2
23 Purchases and sales	59,890	\$ 1.70	Attachment CJG-2, page 2
24 Return on ES Deferral	114	\$ 0.00	Attachment CJG-2, page 2
25 2015 Actual ES under recovery	<u>5,937</u>		
27 Total Updated Energy Service Cost	\$ 308,906		
28 Total Updated Revenue	<u>291,912</u>		
29 2016 ES (Over)/Under Recovery	16,994		
31 Forecasted Retail MWH Sales July - December 2016	1,772,425		
33 Change to Energy Service Rate - cents per kwh	0.96		
35 Energy Service Rate as approved in DE 15-415 - cents per kwh	<u>8.27</u>		
37 Updated Energy Service Rate w/o Scrubber - cents per kwh	9.23		
39 Plus Scrubber ES Rate cents per kwh per DE 11-250	<u>1.72</u>		
41 Total Updated Energy Service Rate Effective 7/1/16 - cents per kwh	<u><u>10.95</u></u>		

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

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY  
2016 ENERGY SERVICE RATE CALCULATION  
RATE EFFECTIVE JULY 1, 2016  
(Dollars in 000s)

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<u>Energy Service Cost</u>	January 2016 Actual	February 2016 Actual	March 2016 Actual	April 2016 Actual	May 2016 Actual	June 2016 Estimate	Reference
Fossil energy costs	\$ 5,104	\$ 4,505	\$ 1,670	\$ 1,661	\$ 1,123	\$ 799	CJG-2, P3
F/H O&M, depreciation & taxes	9,238	8,490	9,724	12,664	8,883	9,361	CJG-2, P5
Return on rate base	3,528	3,663	3,655	3,685	3,707	3,629	CJG-2, P6
ISO-NE ancillary	331	506	389	300	(973)	(1,008)	CJG-2, P3
Capacity	(610)	(668)	(674)	(714)	(890)	(1,047)	CJG-2, P3
NH RPS	1,011	(1,719)	1,023	1,279	1,025	1,180	CJG-2, P3
Seabrook costs / (credits)	-	-	-	(182)	-	-	
Vermont Yankee	(8)	(6)	(4)	(26)	(6)	-	
RGGI costs	128	226	31	29	6	-	CJG-2, P3
IPP costs (*)	992	727	567	773	542	562	CJG-2, P3
Burgess BioPower	3,934	2,913	3,690	2,137	3,765	3,296	CJG-2, P3
Purchases and sales (inc. Congestion and Loss Adj.)	6,666	5,234	4,782	6,000	4,133	3,992	CJG-2, P3
Return on ES Deferral	12	10	8	14	20	18	
2015 Actual ES under recovery	5,937						
Total Energy Service Cost	\$ 36,262	\$ 23,881	\$ 24,860	\$ 27,620	\$ 21,335	\$ 20,783	
Total Energy Service Revenue at 8.27 cents/kwh	\$ 28,880	\$ 26,813	\$ 24,512	\$ 21,135	\$ 20,966	\$ 23,026	
ES Under/(Over) Recovery	7,382	(2,932)	348	6,485	369	(2,243)	
Forecasted Retail MWH Sales	348,059	311,831	296,997	255,963	253,951	278,430	
Energy Service Cost - cents per kwh	10.42	7.66	8.37	10.79	8.40	7.46	

(\*) 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  
2016 ENERGY SERVICE RATE CALCULATION  
RATE EFFECTIVE JULY 1, 2016  
(Dollars in 000s)

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	July 2016 Estimate	August 2016 Estimate	September 2016 Estimate	October 2016 Estimate	November 2016 Estimate	December 2016 Estimate	Total	Reference
<b>Energy Service Cost</b>								
Fossil energy costs	\$ 3,842	\$ 826	\$ 1,009	\$ 826	\$ 835	\$ 10,303	\$ 32,504	CJG-2, P3
F/H O&M, depreciation & taxes	9,411	8,994	11,312	11,252	9,807	9,000	118,136	CJG-2, P5
Return on rate base	3,529	3,511	3,524	3,542	3,544	3,562	43,081	CJG-2, P6
ISO-NE ancillary	199	190	112	112	110	(17)	251	CJG-2, P3
Capacity	(937)	(975)	(1,096)	(1,199)	(1,026)	(863)	(10,699)	CJG-2, P3
NH RPS	1,387	1,365	1,121	1,082	1,154	1,397	11,305	CJG-2, P3
Seabrook costs / (credits)	-	-	-	-	-	-	(182)	
Vermont Yankee	-	-	-	-	-	-	(50)	
RGGI costs	148	-	7	-	2	503	1,080	CJG-2, P3
IPP costs (*)	803	649	477	576	773	1,197	8,636	CJG-2, P3
Burgess BioPower	3,396	3,396	3,296	2,390	3,296	3,396	38,904	CJG-2, P3
Purchases and sales (inc. Congestion and Loss Adj.)	5,130	7,808	4,812	4,706	6,365	262	59,890	CJG-2, P3
Return on ES Deferral	13	7	4	4	3	1	114	
2015 Actual ES under recovery							5,937	
<b>Total Energy Service Cost</b>	<b>\$ 26,921</b>	<b>\$ 25,771</b>	<b>\$ 24,577</b>	<b>\$ 23,291</b>	<b>\$ 24,863</b>	<b>\$ 28,742</b>	<b>\$ 308,906</b>	
<b>Total Energy Service Revenue at 8.27 cents/kwh</b>	<b>\$ 27,093</b>	<b>\$ 26,660</b>	<b>\$ 21,882</b>	<b>\$ 21,107</b>	<b>\$ 22,532</b>	<b>\$ 27,305</b>	<b>\$ 291,912</b>	
ES Under/(Over) Recovery	(172)	(889)	2,695	2,184	2,330	1,437	\$ 16,994	
Forecasted Retail MWH Sales	327,607	322,370	264,596	255,221	272,459	330,172	3,517,655	
Energy Service Cost - cents per kwh	8.22	7.99	9.29	9.13	9.13	8.71	8.78	

(\*) 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**  
**2016 ENERGY SERVICE RATE CALCULATION**  
**RATE EFFECTIVE JULY 1, 2016**

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

		Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Total
9	Hydro:													
10	Energy	39.496	37.401	43.267	37.784	31.558	30.127	24.247	19.277	15.416	23.465	30.894	32.142	365.073
11	Coal:													
12	Energy	81.695	65.146	1.642	3.419	(2.980)	0.000	58.693	0.000	1.239	0.000	0.620	210.217	419.692
13	Energy Expense	\$ 4,037	3,449	696	972	567	0	2,678	0	73	0	36	9,477	21,985
14	Wood:													
15	Energy	30.454	27.873	22.963	(0.497)	26.340	27.554	28.473	28.473	27.554	28.473	27.554	28.473	303.688
16	Energy Expense	\$ 1,793	1,779	1,492	440	1,167	1,605	1,658	1,658	1,605	1,658	1,605	1,658	18,119
17	Revenue Credit	\$ (917)	(857)	(743)	(210)	(821)	(806)	(832)	(832)	(806)	(832)	(806)	(832)	(9,293)
18	IC/Jets													
19	Energy	0.272	(0.063)	0.224	0.030	0.095	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.558
20	Energy Expense	\$ 88	5	70	17	39	0	0	0	0	0	0	0	219
21	Newington:													
22	Energy	(0.782)	0.883	(1.186)	4.725	(1.279)	0.000	4.940	0.000	1.900	0.000	0.000	0.000	9.200
23	Energy Expense	\$ 102	128	154	442	171	0	338	0	137	0	0	0	1,473
24	IPP's:													
25	Energy	26.379	23.864	26.071	24.688	19.299	24.778	24.072	19.589	16.663	20.052	20.303	23.217	268.974
26	Energy Expense	\$ 898	635	476	709	477	502	743	589	416	492	689	1,113	7,739
27	ICAP	\$ 94	92	91	64	65	60	60	60	61	84	84	84	898
28	Burgess BioPower													
29	Energy	50.196	36.175	46.847	25.470	47.773	41.796	43.189	43.189	41.796	29.257	41.796	43.189	490.673
30	Expense	\$ 3,656	2,635	3,412	1,859	3,487	3,018	3,118	3,118	3,018	2,112	3,018	3,118	35,569
31	ICAP	\$ 278	278	278	278	278	278	278	278	278	278	278	278	3,334
32	Contract Purchases													
33	Energy	8.083	7.568	7.062	4.909	4.300	3.919	2.952	2.663	3.332	5.212	6.829	5.757	62.585
34	Expense	\$ 569	534	567	488	587	206	155	140	175	274	359	302	4,354
35	ICAP	\$ 25	26	26	26	79	8	8	8	8	19	19	19	272
36	Energy Purchases													
37	Energy	201.476	190.616	212.064	220.884	184.714	168.029	171.949	229.756	173.584	165.053	161.854	75.349	2,155.328
38	Expense	\$ 8,047	5,782	4,885	6,725	4,397	3,773	5,193	7,643	4,618	4,403	5,933	3,179	64,577
39	Energy Sales													
40	Energy	(51.282)	(44.913)	(32.631)	(40.684)	(40.349)	0.000	(9.998)	0.000	0.000	0.000	0.000	(67.097)	(286.954)
41	(Credit)	\$ (1,975)	(1,107)	(697)	(1,239)	(930)	0	(307)	0	0	0	0	(3,617)	(9,872)
42	Congestion and Loss Adjustment	\$ 0	0	0	0	0	5	81	17	11	11	55	379	559
43	Total Energy GWH	385.987	344.548	326.323	280.727	269.472	296.203	348.517	342.947	281.485	271.512	289.851	351.247	3,788.818
44	Total Energy Expense	\$ 16,696	13,379	10,708	10,571	9,562	8,649	13,171	12,679	9,594	8,498	11,268	15,158	139,934
45	ISO-NE Ancillary	\$ 331	506	389	300	(973)	(1,008)	199	190	112	112	110	(17)	251
46	NH RPS	\$ 1,011	(1,719)	1,023	1,279	1,025	1,180	1,387	1,365	1,121	1,082	1,154	1,397	11,305
47	RGGI Costs	\$ 128	226	31	29	6	0	148	0	7	0	2	503	1,080
48	Capacity (sold)/bought MW-mo	(203)	(205)	(217)	(258)	(322)	(343)	(308)	(321)	(357)	(389)	(333)	(281)	(3,537)
49	Capacity (sold)/bought Cost (\$000)	\$ (610)	(668)	(674)	(714)	(890)	(1,047)	(937)	(975)	(1,096)	(1,199)	(1,026)	(863)	(10,699)

Amounts shown above may not add due to rounding.

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1 PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY  
2 2016 ENERGY SERVICE RATE CALCULATION  
3 RATE EFFECTIVE JULY 1, 2016  
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6 **Forecasted PSNH IPP Market Value - April - December 2016**  
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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	24.778	502	19.8	3.05	60	562	22.70
12	July	24.072	743	19.8	3.04	60	803	33.37
13	August	19.589	589	19.8	3.03	60	649	33.12
14	September	16.663	416	19.8	3.07	61	477	28.60
15	October	20.052	492	27.3	3.09	84	577	28.75
16	November	20.303	689	27.3	3.08	84	773	38.07
17	December	23.217	1,113	27.3	3.07	84	1,197	51.54
18	Total	148.674	4,544			493	5,037	33.88

Amounts shown above may not add due to rounding.

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PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY  
 2016 ENERGY SERVICE RATE CALCULATION  
 Fossil / Hydro O&M, Depreciation & Taxes Detail  
 RATE EFFECTIVE JULY 1, 2016  
 (Dollars in 000's)

	January 2016 Actual	February 2016 Actual	March 2016 Actual	April 2016 Actual	May 2016 Actual	June 2016 Estimate	July 2016 Estimate	August 2016 Estimate	September 2016 Estimate	October 2016 Estimate	November 2016 Estimate	December 2016 Estimate	Total
<b>Fossil / Hydro O&amp;M, Depr. &amp; Taxes</b>													
F/H Operation & Maintenance Cost	\$ 6,080	\$ 5,420	\$ 6,530	\$ 9,588	\$ 5,729	\$ 6,402	\$ 6,450	\$ 6,096	\$ 8,349	\$ 8,223	\$ 6,849	\$ 6,037	\$ 81,753
F/H Depreciation Cost	1,795	1,857	1,855	1,856	1,857	1,614	1,616	1,617	1,618	1,630	1,635	1,640	20,589
F/H Property Taxes	1,121	964	1,031	1,098	1,063	1,092	1,092	1,092	1,092	1,092	1,092	1,092	12,920
F/H Payroll and Other Taxes	189	196	255	68	180	198	198	134	198	251	176	176	2,218
Amort. of Asset Retirement Obligation	53	53	53	54	54	56	56	56	56	56	56	56	656
<b>Total F/H O&amp;M, Depr. and Taxes</b>	<b>\$ 9,238</b>	<b>\$ 8,490</b>	<b>\$ 9,724</b>	<b>\$ 12,664</b>	<b>\$ 8,883</b>	<b>\$ 9,361</b>	<b>\$ 9,411</b>	<b>\$ 8,994</b>	<b>\$ 11,312</b>	<b>\$ 11,252</b>	<b>\$ 9,807</b>	<b>\$ 9,000</b>	<b>\$ 118,136</b>

Amounts shown above may not add due to rounding.

**PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE D/B/A EVERSOURCE ENERGY**  
**2016 ENERGY SERVICE RATE CALCULATION**  
**FOSSIL/HYDRO RETURN ON RATE BASE**  
**RATE EFFECTIVE JULY 1, 2016**  
(Dollars in 000's)

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<b>Return on Rate Base</b>	January 2016 Actual	February 2016 Actual	March 2016 Actual	April 2016 Actual	May 2016 Actual	June 2016 Estimate	July 2016 Estimate	August 2016 Estimate	September 2016 Estimate	October 2016 Estimate	November 2016 Estimate	December 2016 Estimate	Total
<b>Rate base</b>													
Net Plant	277,333	278,631	286,930	288,227	289,524	269,743	268,835	268,312	272,993	274,131	274,834	276,560	
Working Capital Allow. (45 days of O&M)	10,429	10,429	10,429	10,429	10,429	10,429	10,429	10,429	10,429	10,429	10,429	10,429	
Fossil Fuel Inventory	103,397	103,397	96,014	96,014	96,014	96,014	96,014	96,014	96,014	96,014	96,014	96,014	
Mat'ls and Supplies	57,603	57,603	57,827	57,827	57,827	57,827	57,827	57,827	57,827	57,827	57,827	57,827	
Prepayments	1,741	1,741	1,926	1,926	1,926	1,926	1,926	1,926	1,926	1,926	1,926	1,926	
Deferred Taxes	(34,520)	(34,074)	(33,527)	(32,360)	(31,195)	(31,476)	(32,539)	(32,737)	(34,066)	(34,836)	(34,589)	(33,721)	
Other Regulatory Obligations	(16,145)	(16,145)	(19,363)	(19,363)	(19,363)	(18,753)	(19,287)	(19,822)	(19,233)	(19,602)	(19,980)	(19,239)	
<b>Total Rate Base (L15 thru L22)</b>	<b>399,837</b>	<b>401,581</b>	<b>400,235</b>	<b>402,699</b>	<b>405,161</b>	<b>385,709</b>	<b>383,205</b>	<b>381,949</b>	<b>385,890</b>	<b>385,889</b>	<b>386,461</b>	<b>389,796</b>	
Average Rate Base ( prev + curr month)	385,960	400,709	400,908	401,467	403,930	395,435	384,457	382,577	383,920	385,889	386,175	388,128	
x Return	0.9142%	0.9142%	0.9142%	0.9178%	0.9178%	0.9178%	0.9178%	0.9178%	0.9178%	0.9178%	0.9178%	0.9178%	
<b>Return (L25 x L26)</b>	<b>\$ 3,528</b>	<b>\$ 3,663</b>	<b>\$ 3,655</b>	<b>\$ 3,685</b>	<b>\$ 3,707</b>	<b>\$ 3,629</b>	<b>\$ 3,529</b>	<b>\$ 3,511</b>	<b>\$ 3,524</b>	<b>\$ 3,542</b>	<b>\$ 3,544</b>	<b>\$ 3,562</b>	<b>\$ 43,081</b>

Amounts shown above may not add due to rounding.