

**Docket No. E-34, Sub 54
 Appalachian State University
 d/b/a New River Light and Power Company
 COMPLIANCE FILING, Docket No. E-34, Sub 54
 Comparison Between Prior Approved Rates and Current Approved Rates**

OFFICIAL COPY

Nov 13 2023

Line	Description	Billing Determinants	Prior Approved Rates	Prior Approved Rate Revenues	Current Approved Rates	Current Approved Rate Revenues	Increase (Decrease)	Percent Increase
1	Residential Service:	PS Sch 3-1(b) Cust Growth						
2	Basic Facilities Charge	7,340	\$ 12.58	\$ 1,108,097	\$ 14.50	\$ 1,277,218	\$ 169,121	15.26%
3	Energy Charge:							
4	NRLP Distribution Charge - All kWh	64,315,439	\$ 0.090044	\$ 5,791,219	\$ 0.032548	\$ 2,093,339	\$ (3,697,880)	17.94%
5	Wholesale Power Supply Charge - All kWh				\$ 0.073646	\$ 4,736,575	\$ 4,736,575	
6	PPA Energy - All kWh		\$ 0.022313	\$ 1,435,070	\$ 0.012376	\$ 795,968	\$ (639,103)	-44.53%
7	Total Energy - All kWh		\$ 0.112357	\$ 7,226,290	\$ 0.118570	\$ 7,625,882	\$ 399,592	5.53%
8	Total Residential Service			\$ 8,334,386		\$ 8,903,100	\$ 568,713	6.82%
9								
10	Commercial General Service:	PS Sch 3-1(b) Cust Growth						
11	Basic Facilities Charge	1,480	\$ 17.42	\$ 309,344	\$ 17.50	\$ 310,765	\$ 1,421	0.46%
12	Energy Charge:							
13	NRLP Distribution Charge - All kWh	23,499,170	\$ 0.086683	\$ 2,036,979	\$ 0.033071	\$ 777,141	\$ (1,259,838)	29.45%
14	Wholesale Power Supply Charge - All kWh				\$ 0.079142	\$ 1,859,771	\$ 1,859,771	
15	PPA Energy - All kWh		\$ 0.022313	\$ 524,337	\$ 0.012376	\$ 290,826	\$ (233,511)	-44.53%
16	Total Energy - All kWh		\$ 0.108996	\$ 2,561,316	\$ 0.124589	\$ 2,927,738	\$ 366,423	14.31%
17	Total Commercial General Service			\$ 2,870,660		\$ 3,238,503	\$ 367,843	12.81%
18								
19	Commercial Demand Service:	PS Sch 3-1(b) Cust Growth						
20	Basic Facilities Charge	279	\$ 23.22	\$ 77,764	\$ 30.00	\$ 100,470	\$ 22,706	29.20%
21	Demand Charge:							
22	NRLP Distribution Charge - All kW	213,173	\$ 8.27	\$ 1,762,944	\$ 2.27	\$ 483,904	\$ (1,279,040)	0.00%
23	Wholesale Power Supply Charge - All kW				\$ 6.00	\$ 1,279,040	\$ 1,279,040	
24	Energy Charge:							
25	NRLP Distribution Charge - All kWh	74,161,349	\$ 0.054222	\$ 4,021,177	\$ 0.020228	\$ 1,500,136	\$ (2,521,041)	47.57%
26	Wholesale Power Supply Charge - All kWh				\$ 0.059790	\$ 4,434,107	\$ 4,434,107	
27	PPA Energy - All kWh		\$ 0.022313	\$ 1,654,762	\$ 0.012376	\$ 917,821	\$ (736,941)	-44.53%
28	Total Energy - All kWh		\$ 0.076535	\$ 5,675,939	\$ 0.092394	\$ 6,852,064	\$ 1,176,125	20.72%
29	Total Commercial Demand Service			\$ 7,516,646		\$ 8,715,477	\$ 1,198,831	15.95%
30								
31	ASU Campus Service:							
32	Distribution Facilities Charge:							
33	All kW at ASU Substation (plus on-site generation)	92,441	\$ 10.63	\$ 982,643	\$ 16.97	\$ 1,568,716	\$ 586,073	59.64%
34	Power Demand Charge:							
35	All kW at ASU Substation	92,441	\$ 8.75	\$ 808,855	\$ 7.87	\$ 727,507	\$ (81,348)	-10.06%
36	Energy Charge:							
37	All kWh at ASU Substation	44,774,302						
38	Base Energy Charge - All kWh		\$ 0.040950	\$ 1,833,508	\$ 0.040121	\$ 1,796,390	\$ (37,118)	-2.02%
39	PPA Energy - All kWh		\$ 0.022313	\$ 999,049	\$ 0.012376	\$ 554,127	\$ (444,922)	-44.53%
40	Total Energy Charge - All kWh		\$ 0.063263	\$ 2,832,557	\$ 0.052497	\$ 2,350,517	\$ (482,040)	
41	Total ASU Campus Service			\$ 4,624,055		\$ 4,646,740	\$ 22,685	0.49%
42								
43	Lighting Service:							
44	<u>Schedule OL Base Charge</u>							
45	[Base Charge includes COS Allocation plus Individual Light Investment]							
46	High Pressure Sodium:							
47	150 Watt HPS Cobra Head	142	\$ 8.90	\$ 15,166	\$ 13.34	\$ 22,726	\$ 7,561	49.85%
48	250 Watt HPS Cobra Head	408	\$ 12.93	\$ 63,305	\$ 18.05	\$ 88,396	\$ 25,091	39.63%
49	250 Watt HPS Shoebox	7	\$ 12.93	\$ 1,086	\$ 20.35	\$ 1,709	\$ 623	57.37%
50	Mercury Vapor:							
51	175 Watt MV	196	\$ 9.26	\$ 21,780	\$ 12.36	\$ 29,080	\$ 7,300	33.52%
52	400 Watt MV TV	4	\$ 16.97	\$ 815	\$ 23.70	\$ 1,138	\$ 323	39.68%
53	Metal Halide:							
54	250 Watt MH Cobra Head	258	\$ 15.33	\$ 47,462	\$ 18.74	\$ 58,030	\$ 10,568	22.27%
55	250 Watt MH Decashield	3	\$ 15.33	\$ 552	\$ 18.46	\$ 664	\$ 113	20.39%
56	400 Watt MH Cobra Head	364	\$ 19.54	\$ 85,351	\$ 26.06	\$ 113,811	\$ 28,460	33.34%
57	400 Watt MH Flood TV	-	\$ 19.54	\$ -	\$ 26.39	\$ -	\$ -	0.00%
58	400 Watt MH Shoebox	5	\$ 19.54	\$ 1,172	\$ 28.29	\$ 1,698	\$ 525	44.79%
59	Energy Charge Only (Town of Boone Owned Lighting):							
60	Sodium Vapor:							
61	150 Watt Sodium Vapor TOB	79	\$ 4.39	\$ 4,162	\$ 6.32	\$ 5,993	\$ 1,831	44.00%
62	250 Watt Sodium Vapor TOB	216	\$ 7.31	\$ 18,948	\$ 10.54	\$ 27,309	\$ 8,362	44.13%
63	400 Watt Sodium Vapor TOB	163	\$ 11.68	\$ 22,846	\$ 16.86	\$ 32,974	\$ 10,128	44.33%
64	750 Watt Sodium Vapor TOB	1	\$ 21.92	\$ 263	\$ 31.61	\$ 379	\$ 116	44.20%
65	Mercury Vapor:							
66	175 Watt MV TOB	163	\$ 5.12	\$ 10,015	\$ 7.38	\$ 14,426	\$ 4,411	44.05%
67	400 Watt MV TV TOB	6	\$ 11.68	\$ 841	\$ 16.86	\$ 1,214	\$ 373	44.33%
68	Metal Halide:							
69	250 Watt Metal Halide - TOB	1	\$ 7.31	\$ 88	\$ 10.54	\$ 126	\$ 39	44.13%
70	400 Watt Metal Halide - TOB	1	\$ 11.68	\$ 140	\$ 16.86	\$ 202	\$ 62	44.33%

Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
COMPLIANCE FILING, Docket No. E-34, Sub 54
Comparison Between Prior Approved Rates and Current Approved Rates

OFFICIAL COPY

Nov 13 2023

Line	Description	Billing Determinants	Prior Approved Rates	Prior Approved Rate Revenues	Current Approved Rates	Current Approved Rate Revenues	Increase (Decrease)	Percent Increase
71	Schedule LEDL Base Charge							
72	[Base Charge includes COS Allocation plus Individual Light Investment]							
73	50 Watt Yard Light (No Longer Available)	4	\$ 4.07	\$ 195	\$ 4.48	\$ 215	20	10.01%
74	96 Watt LED TV Bronze	4	\$ 6.85	\$ 329	\$ 9.99	\$ 480	151	45.80%
75	101 Watt LED Bronze Cobra Head	4	\$ 6.85	\$ 329	\$ 12.38	\$ 594	266	80.74%
76	110 Watt LED (No Longer Available)	7	\$ 6.85	\$ 576	\$ 7.75	\$ 651	75	13.07%
77	119 Area Light LED Shoebox (No Longer Available)	98	\$ 9.98	\$ 11,736	\$ 10.96	\$ 12,883	1,147	9.77%
78	160 Watt Cobra Head LED	12	\$ 11.06	\$ 1,593	\$ 11.63	\$ 1,675	83	5.20%
79	Energy Charge Only (Town of Boone Owned Lighting):							
80	20 Watt LED TOB	1	\$ 0.44	\$ 5	\$ 0.84	\$ 10	5	91.56%
81	27 Watt LED TOB	17	\$ 0.63	\$ 129	\$ 1.14	\$ 232	104	80.62%
82	40 Watt LED TOB	25	\$ 0.94	\$ 282	\$ 1.69	\$ 506	224	79.34%
83	50 Watt LED TOB	3	\$ 1.13	\$ 41	\$ 2.11	\$ 76	35	86.48%
84	TOB 80 Watt LED	33	\$ 1.82	\$ 721	\$ 3.37	\$ 1,335	614	85.25%
85	92 Watt LED TOB	17	\$ 2.14	\$ 437	\$ 3.88	\$ 791	354	81.18%
86	100 Watt LED TOB	81	\$ 2.33	\$ 2,265	\$ 4.21	\$ 4,096	1,832	80.88%
87	106 Watt LED TOB	54	\$ 2.45	\$ 1,588	\$ 4.47	\$ 2,895	1,307	82.34%
88	TOB 110 Watt LED	20	\$ 2.51	\$ 602	\$ 4.64	\$ 1,113	510	84.70%
89	120 Watt LED TOB	17	\$ 2.77	\$ 565	\$ 5.06	\$ 1,032	467	82.57%
90	TOB 136 Watt LED	2	\$ 3.14	\$ 75	\$ 5.73	\$ 138	62	82.54%
91	150 Watt LED TOB	173	\$ 3.46	\$ 7,183	\$ 6.32	\$ 13,124	5,941	82.71%
92	TOB 180 Watt LED	24	\$ 4.15	\$ 1,195	\$ 7.59	\$ 2,185	990	82.79%
93	Schedule OL PPA Charge							
94								
95	High Pressure Sodium:							
96	150 Watt HPS Cobra Head		\$ 1.22	\$ 2,079	\$ 0.68	\$ 1,159	(920)	-44.26%
97	250 Watt HPS Cobra Head		\$ 2.04	\$ 9,988	\$ 1.13	\$ 5,532	(4,455)	-44.61%
98	250 Watt HPS Shoebox		\$ 2.04	\$ 171	\$ 1.13	\$ 95	(76)	-44.61%
99	Mercury Vapor:							
100	175 Watt MV		\$ 1.43	\$ 3,363	\$ 0.79	\$ 1,858	(1,505)	-44.76%
101	400 Watt MV TV		\$ 3.26	\$ 156	\$ 1.81	\$ 87	(70)	-44.48%
102	Metal Halide:							
103	250 Watt MH Cobra Head		\$ 2.04	\$ 6,316	\$ 1.13	\$ 3,498	(2,817)	-44.61%
104	250 Watt MH Decashield		\$ 2.04	\$ 73	\$ 1.13	\$ 41	(33)	-44.61%
105	400 Watt MH Cobra Head		\$ 3.26	\$ 14,240	\$ 1.81	\$ 7,906	(6,334)	-44.48%
106	400 Watt MH Flood TV		\$ 3.26	\$ -	\$ 1.81	\$ -	-	0.00%
107	400 Watt MH Shoebox		\$ 3.26	\$ 196	\$ 1.81	\$ 109	(87)	-44.48%
108	Energy Charge Only (Town of Boone Owned Lighting):							
109	Sodium Vapor:							
110	150 Watt Sodium Vapor TOB		\$ 1.22	\$ 1,157	\$ 0.68	\$ 645	(512)	-44.26%
111	250 Watt Sodium Vapor TOB		\$ 2.04	\$ 5,288	\$ 1.13	\$ 2,929	(2,359)	-44.61%
112	400 Watt Sodium Vapor TOB		\$ 3.26	\$ 6,377	\$ 1.81	\$ 3,540	(2,836)	-44.48%
113	750 Watt Sodium Vapor TOB		\$ 6.11	\$ 73	\$ 3.39	\$ 41	(33)	-44.52%
114	Mercury Vapor:							
115	175 Watt MV TOB		\$ 1.43	\$ 2,797	\$ 0.79	\$ 1,545	(1,252)	-44.76%
116	400 Watt MV TV TOB		\$ 3.26	\$ 235	\$ 1.81	\$ 130	(104)	-44.48%
117	Metal Halide:							
118	250 Watt Metal Halide - TOB		\$ 2.04	\$ 24	\$ 1.13	\$ 14	(11)	-44.61%
119	400 Watt Metal Halide - TOB		\$ 3.26	\$ 39	\$ 1.81	\$ 22	(17)	-44.48%
120	Schedule LEDL PPA Charge							
121								
122	50 Watt Yard Light (No Longer Available)		\$ 0.41	\$ 20	\$ 0.23	\$ 11	(9)	-43.90%
123	96 Watt LED TV Bronze		\$ 0.78	\$ 37	\$ 0.43	\$ 21	(17)	-44.87%
124	101 Watt LED Bronze Cobra Head		\$ 0.82	\$ 39	\$ 0.46	\$ 22	(17)	-43.90%
125	110 Watt LED (No Longer Available)		\$ 0.90	\$ 76	\$ 0.50	\$ 42	(34)	-44.44%
126	119 Area Light LED Shoebox (No Longer Available)		\$ 0.97	\$ 1,141	\$ 0.54	\$ 635	(506)	-44.33%
127	160 Watt Cobra Head LED		\$ 1.32	\$ 190	\$ 0.73	\$ 105	(85)	-44.70%
128	Energy Charge Only (Town of Boone Owned Lighting):							
129	20 Watt LED TOB		\$ 0.16	\$ 2	\$ 0.09	\$ 1	(1)	-43.75%
130	27 Watt LED TOB		\$ 0.22	\$ 45	\$ 0.12	\$ 24	(20)	-45.45%
131	40 Watt LED TOB		\$ 0.33	\$ 99	\$ 0.18	\$ 54	(45)	-45.45%
132	50 Watt LED TOB		\$ 0.41	\$ 15	\$ 0.23	\$ 8	(6)	-43.90%
133	TOB 80 Watt LED		\$ 0.65	\$ 257	\$ 0.36	\$ 143	(115)	-44.62%
134	92 Watt LED TOB		\$ 0.75	\$ 153	\$ 0.42	\$ 86	(67)	-44.00%
135	100 Watt LED TOB		\$ 0.81	\$ 787	\$ 0.45	\$ 437	(350)	-44.44%
136	106 Watt LED TOB		\$ 0.86	\$ 557	\$ 0.48	\$ 311	(246)	-44.19%
137	TOB 110 Watt LED		\$ 0.90	\$ 216	\$ 0.50	\$ 120	(96)	-44.44%
138	120 Watt LED TOB		\$ 0.98	\$ 200	\$ 0.54	\$ 110	(90)	-44.90%
139	TOB 136 Watt LED		\$ 1.11	\$ 27	\$ 0.61	\$ 15	(12)	-45.05%
140	150 Watt LED TOB		\$ 1.22	\$ 2,533	\$ 0.68	\$ 1,412	(1,121)	-44.26%
141	TOB 180 Watt LED		\$ 1.47	\$ 423	\$ 0.81	\$ 233	(190)	-44.90%

Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
COMPLIANCE FILING, Docket No. E-34, Sub 54
Comparison Between Prior Approved Rates and Current Approved Rates

Line	Description	Billing Determinants	Prior Approved Rates	Prior Approved Rate Revenues	Current Approved Rates	Current Approved Rate Revenues	Increase (Decrease)	Percent Increase
212	Base Rate Revenues:							
213	Residential Service			\$ 6,899,316		\$ 8,107,132	\$ 1,207,816	17.51%
214	Commercial General Service			\$ 2,346,323		\$ 2,947,677	\$ 601,354	25.63%
215	Commercial Demand Service			\$ 5,861,884		\$ 7,797,657	\$ 1,935,772	33.02%
216	ASU Campus Service			\$ 3,625,006		\$ 4,092,613	\$ 467,608	12.90%
217	Lighting Service (Excluding Investment Charges)			\$ 231,057		\$ 306,968	\$ 75,911	32.85%
218	Total Base Rate Revenues			\$ 18,963,586		\$ 23,252,046	\$ 4,288,461	22.61%
219								
220	PPAC Revenue Reduction:							
221	Residential Service			\$ 1,435,070		\$ 795,968	\$ (639,103)	-44.53%
222	Commercial General Service			\$ 524,337		\$ 290,826	\$ (233,511)	-44.53%
223	Commercial Demand Service			\$ 1,654,762		\$ 917,821	\$ (736,941)	-44.53%
224	ASU Campus Service			\$ 999,049		\$ 554,127	\$ (444,922)	-44.53%
225	Lighting Service			\$ 59,389		\$ 32,941	\$ (26,448)	-44.53%
226	Total PPAC Revenue Reduction			\$ 4,672,608		\$ 2,591,682	\$ (2,080,926)	-44.53%
227								
228	Net Revenue Increase:							
229	Residential Service			\$ 8,334,386		\$ 8,903,100	\$ 568,713	6.82%
230	Commercial General Service			\$ 2,870,660		\$ 3,238,503	\$ 367,843	12.81%
231	Commercial Demand Service			\$ 7,516,646		\$ 8,715,477	\$ 1,198,831	15.95%
232	ASU Campus Service			\$ 4,624,055		\$ 4,646,740	\$ 22,685	0.49%
233	Lighting Service			\$ 290,446		\$ 339,908	\$ 49,462	17.03%
234	Total Net Revenue Increase			\$ 23,636,193		\$ 25,843,728	\$ 2,207,535	9.34%

OFFICIAL COPY

Nov 13 2023

Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Summary of Current Approved Rate Impacts
COMPLIANCE FILING, Docket No. E-34, Sub 54

Description	% Base Rate Increase	% Increase with PPA Reduction	Rate of Return	Rate of Return Index
Residential Service	17.51%	6.82%	7.800%	1.27
Commercial General Service	25.63%	12.81%	7.120%	1.15
Commercial Demand Service	33.02%	15.95%	3.401%	0.55
ASU Campus Service	12.90%	0.49%	7.800%	1.27
Lighting Service	<u>32.85%</u>	<u>17.03%</u>	<u>3.40%</u>	<u>0.55</u>
Total System	22.61%	9.34%	6.165%	1.00