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July 6, 2023

Ms. A. Shonta Dunston
Chief Clerk
N.C. Utilities Commission
430 N. Salisbury Street, Room 5063
Raleigh, NC 27603

**Re: *New River Light and Power Company
Settlement Testimony and Exhibits of Randall E. Halley
Docket No. E-34, Subs 54 and 55***

Dear Ms. Dunston:

Attached hereto, on behalf of New River Light and Power Company, is the Settlement Testimony and Exhibits of Randall E. Halley to be filed in the above-referenced dockets.

Twelve paper copies of same will be delivered to the Clerk's Office within 24 business hours of the electronic filing.

If you have any questions concerning this filing, or exhibits thereto, please do not hesitate to contact me.

Sincerely,

/s/ David T. Drooz
David T. Drooz

pbb

Attachments



Fox Rothschild LLP
ATTORNEYS AT LAW

Ms. Shonta A. Dunston
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cc: Parties and Counsel of Record
NC Commission Staff
NC Public Staff
Mr. Randall E. Halley
Mr. Edmond C. Miller
Mr. M. Gray Styers, Jr.

OFFICIAL COPY

Jul 06 2023

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. E-34, SUB 54
DOCKET NO. E-34, SUB 55

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-34, SUB 54

In the Matter of:
Application of Appalachian State
University, d/b/a New River Light and
Power Company for Adjustment of
General Base Rates and Charges
Applicable to Electric Service

DOCKET NO. E-34, SUB 55

In the Matter of:
Petition of Appalachian State University
d/b/a New River Light and Power for an
Accounting Order to Defer Certain
Capital Costs and New Tax Expenses

**SETTLEMENT TESTIMONY
OF
RANDALL E. HALLEY**

July 6, 2023

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I. INTRODUCTION

Q. Please state your name and business address.

A. My name is Randall E. Halley. I am a Managing Principal with Summit Utility Advisors, Inc. (“Summit”). My business address is 7614 Lake Drive, Orlando, Florida 32809.

Q. On whose behalf are you appearing in this proceeding?

A. I am appearing on behalf of the Applicant, Appalachian State University (“ASU”) d/b/a New River Light and Power (“NRLP”).

Q. What is the purpose of your settlement testimony?

A. The purpose of my settlement testimony is to provide an overview of, and explain and support, the Agreement and Stipulation of Settlement (“Stipulation”) reached with the Public Staff in this proceeding.

II. OVERVIEW OF STIPULATION

Q. Please provide an overview of the settlement Stipulation between the Public Staff and NRLP.

A. The Stipulation, if accepted by the Commission, resolves all issues between the Public Staff and NRLP in these dockets. The Stipulation is the result of a series of discussions between NRLP and the Public Staff beginning the week that NRLP filed its rebuttal testimony. NRLP’s first goal was to understand the underlying calculations and bases for the Public Staff’s recommended adjustments. Then the settling parties determined that certain reasonable compromises would be mutually

1 acceptable to achieve a non-precedential resolution of contested issues. Other
2 intervenors were not part of these negotiations and have not joined the Stipulation.

3 **Q. Why were other intervenors not part of the negotiations?**

4 **A.** There was very little time to reach a settlement after NRLP filed its rebuttal
5 position. Multi-party negotiations are generally more time-consuming. Moreover,
6 the policy and methodological issues raised by Appalachian Voices and Ms.
7 LaPlaca are further away from the NRLP positions than were the Public Staff's
8 recommendations, so the chances of reaching a mutually acceptable Stipulation
9 with the other intervenors seemed remote. Of course NRLP would still welcome
10 their support of the Stipulation as a reasonable compromise.

11 I understand that Appalachian Voices, through their attorneys, did initiate bilateral
12 settlement discussions with the attorneys for NRLP. However, those discussions
13 did not result in a settlement agreement.

14 **Q. What is the status of NRLP rebuttal testimony in light of the Stipulation?**

15 **A.** Absent an agreement by the other intervenors to join in the Stipulation, the NRLP
16 rebuttal testimony is necessary to address their positions in these dockets. Absent
17 Commission approval of all terms of the Stipulation in a final order approving a
18 partial rate increase, NRLP would also maintain its rebuttal position with regard to
19 any disputed issues between NRLP and the Public Staff. In that event, there would
20 be a need to recognize updates to the accounting schedules since the filing of the
21 rebuttal testimony.

1 **III. MAJOR ELEMENTS OF THE STIPULATION**

2 **Q. Please describe the main elements of the Stipulation.**

3 A. After reaching greater understanding on the accounting adjustments initially
4 proposed by the Public Staff, the most significant areas of difference were cost of
5 capital, the deferral of old and new campus substation costs, the deferral of UBIT
6 expense for past years, and the customer growth and usage adjustments. The
7 Company and the Public Staff worked together to achieve a revenue requirement
8 that should, with good management and no major unexpected operational or
9 financial setbacks, enable the utility to continue to provide reliable electric service
10 at reasonable rates. The specific adjustments that comprise the Stipulation are
11 reflected in the schedules of the Public Staff's Settlement Exhibit 1. In addition,
12 NRLP had accepted several Public Staff recommendations prior to the Stipulation,
13 as set forth in the rebuttal testimony of NRLP witness Miller and myself.

14 **Q. Have you prepared a rate design consistent with the principles to which you
15 and the Public Staff previously agreed?**

16 A. Yes, the resulting rate schedules are attached as Halley Settlement Exhibit No. 1.
17 The cost of service study as updated to reflect the settlement revenue requirement
18 is attached as Exhibit REH-14 - Settlement. As shown in the tables below, the
19 proposed allocation of the settlement revenue requirement among the NRLP rate
20 classes is designed to preserve the class rate of return index figures that NRLP
21 previously agreed to with the Public Staff.

22

Proposed Settlement

Description	% Base Rate Increase	% Increase with PPA	Rate of Return	Rate of Return Index
NC Retail	22.61%	11.64%	6.165%	1.00
Residential	17.51%	8.24%	7.800%	1.27
Commercial - General	25.63%	15.68%	7.120%	1.15
Commercial - Demand	33.02%	20.45%	3.401%	0.55
ASU	12.90%	0.63%	7.800%	1.27
Lighting	32.85%	21.40%	3.401%	0.55

Public Staff Proposed in Direct Testimony

Description	% Base Rate Increase	% Increase with PPA	Rate of Return	Rate of Return Index
NC Retail	19.62%	8.89%	6.070%	1.00
Residential	14.70%	5.67%	7.680%	1.27
Commercial - General	22.35%	12.64%	7.010%	1.15
Commercial - Demand	29.75%	17.50%	3.350%	0.55
ASU	10.81%	-1.19%	7.680%	1.27
Lighting	29.48%	18.29%	3.350%	0.55

1
2 **Q. What is the increase in annual revenue requirement resulting from the**
3 **Stipulation?**

4 **A.** As shown on the Public Staff’s settlement Schedule 1, the NRLP revenue
5 requirement for base rates would increase by \$4,288,000. However, some of that
6 increase is from reallocation of purchased power costs from the PPA to base rates.
7 The net increase in annual revenue requirement is \$2,207,074. That is the real
8 impact on customers, which is shown in the above columns entitled “% Increase
9 with PPA.”

10 **Q. Which exhibits from your rebuttal testimony were updated for this**
11 **settlement?**

1 A. The following is a list of the exhibits submitted with my settlement testimony that
2 were modified from those submitted with my rebuttal testimony:

- 3 1. Exhibit REH-14 - Settlement – This exhibit contains the updated cost of service
4 analysis.
- 5 2. Exhibit REH-16 - Settlement – This exhibit contains the updated rate design
6 analysis.
- 7 3. Exhibit REH-19A(R) - Settlement – This exhibit contains the updated
8 calculations for the Standby Supplemental Charge in Schedule NBR for the
9 residential customer class.
- 10 4. Exhibit REH-19A(G) - Settlement – This exhibit contains the updated
11 calculations for the Standby Supplemental Charge in Schedule NBR for the
12 commercial general service customer class.
- 13 5. Exhibit REH-19A(GL) - Settlement – This exhibit contains the updated
14 calculations for the Standby Supplemental Charge in Schedule NBR for the
15 commercial demand service customer class.
- 16 6. Exhibit REH-19B - Settlement – This exhibit contains the updated calculations
17 for the avoided costs used in developing the rate for the Schedule PPR.

18 Q. **What is your recommendation to the Commission?**

19 A. NRLP supports the terms of the Stipulation and its Exhibit as reasonable
20 compromises when taken as a whole. I urge the Commission to approve the
21 Stipulation and establish new rates in accordance with the Stipulation and the
22 NRLP rebuttal testimony that accepts other Public Staff recommendations.

1 Q. **Does this conclude your settlement testimony?**

2 A. Yes.

**NEW RIVER LIGHT AND POWER COMPANY
RATE SCHEDULES
Effective for Service On and After
, 2023**

1.	Schedule R – Residential Service	1
2.	Schedule G – Commercial General Service	3
3.	Schedule GL – Commercial Demand Service	5
4.	Schedule GLH – Commercial High Demand Factor Service	7
5.	Schedule A – ASU Campus Service	9
6.	Schedule OL – Security Lighting Service	11
7.	Schedule PPAC&CACR – Purchased Power Adjustment Clause and Coal Ash Recovery Rider	14
8.	Schedule MS – Miscellaneous Service	16
9.	Schedule LEDL – LED Lighting Service	18
10.	Schedule NSMR – Non-Standard Meter Rider	22
11.	Schedule NBR – Net Billing Rider for Renewable Energy Facilities	23
12.	Schedule IR – Interruptible Rate Rider	25
13.	Schedule PPR – Purchased Power for Renewable Energy Facilities	26
14.	Schedule PSR – Prepaid Service Rider	27
15.	Schedule RER – Renewable Energy Rider	30

New River Light and Power Company
Residential Service
Schedule "R"

Availability

Available to customers who are classified as residential customers; these being individual residential customers in residences, mobile homes, or individually metered apartments.

This schedule is not available for (1) breakdown, standby, or supplementary service, (2) temporary service, or (3) resale, except to lessors of real property who possess and deliver to the Company a Certificate of Authority to Resell Electric Service in accordance with Chapter 62, Section 110(h) of the General Statutes of North Carolina and Chapter 22 of the Rules and Regulations of the North Carolina Utilities Commission.

Type of Service

The company will furnish 60 cycle service through one meter, at one delivery point, at one of the following approximate voltages where available:

Single Phase	120/240 volts, or
Three Phase	120/208Y volts, or
Other available voltages at the Company's option.	

The type of service supplied will depend upon the voltage available. Prospective customers should ascertain the available supply voltage at the Company's office in Boone, NC, before purchasing equipment.

Motors of 5 hp or less shall be of single-phase service unless three-phase service is already available.

Monthly Rate Schedule "R"

Basic Facilities Charge	\$14.50 per month
Energy Charge:	
NRLP Distribution Charge	\$0.032548 per kWh
Wholesale Power Supply Charge	\$0.073646 per kWh

Minimum Bill

The minimum monthly bill for service shall be \$14.50 (Basic Facilities Charge).

Rider

The following rider is applicable to service supplied under this schedule. The currently approved kWh charges (increment or decrement) for the following rider will be added to the kWh Energy Charge shown above in the determination of the monthly bill.

PPAC&CACR - Purchased Power Adjustment Clause and Coal Ash Cost Recovery

Payment

Bills under this schedule are due and payable as of the billing date, or, if not received by said billing date, upon receipt. Bills are considered past due twenty-five (25) days after the billing date. Past due accounts are subject to disconnection after expiration of past due procedures. Bills that are past due will be assessed a one percent (1%) late payment charge.

Re-connection of service after disconnection will be made upon payment of bill in full. A reconnect charge of \$11.50 per reconnect will be charged.

New River Light and Power Company
Commercial General Service
Schedule "G"

Availability

Available to customers who have commercial, general, or temporary service with a monthly usage demand less than 30 kW. In the event a customer billed on this schedule incurs a demand of 30 kW or more for two months during a twelve-month period, the customer will be served under the "Commercial Demand Service - Schedule GL"

This schedule is not available for (1) breakdown, standby, or supplementary service, or (2) for resale.

Type of Service

The company will furnish 60 cycle service through one meter, at one delivery point, at one of the following approximate voltages where available:

Single Phase 120/240 volts, or
Three Phase 120/208Y volts, or 277/480Y volts, or
Other available voltages at the Company's option.

The type of service supplied will depend upon the voltage available. Prospective customers should ascertain the available supply voltage at the Company's office in Boone, NC, before purchasing equipment.

Motors of less than 5 hp may be single phase. All motors of more than 5 hp must be equipped with starting compensators and all motors of more than 25 hp must be of the slip ring type except that the Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

Monthly Rate Schedule "G"

Basic Facilities Charge	\$17.50 per month
Energy Charge:	
NRLP Distribution Charge	\$0.033071 per kWh
Wholesale Power Supply Charge	\$0.079142 per kWh

Minimum Bill

The minimum monthly bill for service shall be \$17.50 (Basic Facilities Charge).

Rider

The following rider is applicable to service supplied under this schedule. The currently approved kWh charges (increment or decrement) for the following rider will be added to the kWh Energy Charge shown above in the determination of the monthly bill.

PPAC&CACR Purchased Power Adjustment Clause and Coal Ash Cost Recovery

Payment

Bills under this schedule are issued on the last working day of the month, and due and payable as of the billing date, or, if not received by said billing date, upon receipt. Bills are considered past due on the 15th day of the month following the billing date. Bills are considered delinquent twenty-five (25) days after the billing date and will be assessed a one percent (1%) late payment charge. If any bill is not paid, the Company has the right to suspend service.

Re-connection of service after disconnection will be made upon payment of bill in full. A reconnect charge of \$11.50 per reconnect will be charged.

New River Light and Power Company
Commercial Demand Service
Schedule "GL"

Availability

Available to customers who have commercial, general, or temporary service with a minimum monthly usage demand of 30 kW. In the event a customer billed on this schedule has a demand less than 30 kW for twelve consecutive months, the customer will be served under the "Commercial General Service -Schedule G".

This schedule is not available for (1) breakdown, standby, or supplementary service, or (2) for resale.

Type of Service

The company will furnish 60 cycle service through one meter, at one delivery point, at one of the following approximate voltages where available:

- Single Phase 120/240 volts, or
- Three Phase 120/208Y volts, or 277/480Y volts, or
- Other available voltages at the Company's option.

The type of service supplied will depend upon the voltage available. Prospective customers should ascertain the available supply voltage at the Company's office in Boone, NC, before purchasing equipment.

Motors of less than 5 hp may be single phase. All motors of more than 5 hp must be equipped with starting compensators and all motors of more than 25 hp must be of the slip ring type except that the Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

Monthly Rate Schedule "GL"

Basic Facilities Charge	\$30.00 per month
Demand Charge	
NRLP Distribution Charge	\$2.27 per kW
Wholesale Power Supply Charge	\$6.00 per kW
Energy Charge:	
NRLP Distribution Charge	\$0.020228 per kWh
Wholesale Power Supply Charge	\$0.059790 per kWh

Minimum Bill

The minimum monthly bill for service shall be \$30.00 (Basic Facilities Charge).

Rider

The following rider is applicable to service supplied under this schedule. The currently approved kWh charges (increment or decrement) for the following rider will be added to the kWh Energy Charge shown above in the determination of the monthly bill.

PPAC&CACR Purchased Power Adjustment Clause and Coal Ash Cost Recovery

Payment

Bills under this schedule are issued on the last working day of the month, and due and payable as of the billing date, or, if not received by said billing date, upon receipt. Bills are considered past due on the 15th day of the month following the billing date. Bills are considered delinquent twenty-five (25) days after the billing date and will be assessed a one percent (1%) late payment charge. If any bill is not paid, the Company has the right to suspend service.

Re-connection of service after disconnection will be made upon payment of bill in full. A reconnect charge of \$11.50 per reconnect will be charged.

New River Light and Power Company
Commercial Demand High Load Factor Service
Schedule "GLH"

This Rate Schedule is Closed and No Longer Available

Availability

Available to customers who have commercial or general service with a monthly usage demand of 30 kW or more for two months and a monthly load factor of 65% or higher for six months over the previous twelve months. In the event a customer billed on this schedule has a demand less than 30 kW for twelve consecutive months, the customer will be served under the "Commercial General Service - Schedule G". In the event a customer's load factor falls below 65% for more than six months over the previous twelve consecutive months, the customer will be served under the "Commercial Demand Service - Schedule GL".

This schedule is not available for (1) breakdown, standby, or supplementary service, (2) for resale, or (3) for temporary service.

Type of Service

The company will furnish 60 cycle service through one meter, at one delivery point, at one of the following approximate voltages where available:

Single Phase	120/240 volts, or
Three Phase	208y/120 volts, or 480Y/277 volts, or
Three Phase	240, 480 volts

The type of service supplied will depend upon the voltage available. Prospective customers should ascertain the available supply voltage at the Company's office in Boone, NC, before purchasing equipment.

Motors of less than 5 hp may be single phase. All motors of more than 5 hp must be equipped with starting compensators and all motors of more than 25 hp must be of the slip ring type except that the Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

Monthly Rate Schedule "GLH"

Basic Facilities Charge	\$23.22 per month
Demand Charge	\$10.00 per kW
Energy Charge	\$0.051800 per kWh

Minimum Bill

The minimum monthly bill for service shall be \$23.22 (Basic Facilities Charge).

Rider

The following rider is applicable to service supplied under this schedule. The currently approved kWh charges (increment or decrement) for the following rider will be added to the kWh Energy Charge shown above in the determination of the monthly bill.

PPAC&CACR Purchased Power Adjustment Clause and Coal Ash Cost Recovery

Payment

Bills under this schedule are issued on the last working day of the month, and due and payable as of the billing date, or, if not received by said billing date, upon receipt. Bills are considered past due on the 15th day of the month following the billing date. Bills are considered delinquent twenty-five (25) days after the billing date and will be assessed a one percent (1%) late payment charge. If any bill is not paid, the Company has the right to suspend service.

Re-connection of service after disconnection will be made upon payment of bill in full. A reconnect charge of \$11.50 per reconnect will be charged.

New River Light and Power Company
ASU Campus Service
Schedule "A"

Availability

This schedule is available only for a single point of delivery for Appalachian State University's main campus location.

Type of Service

For the individual delivery points throughout the ASU Campus, the company will furnish 60 cycle service through one meter, at one delivery point, at one of the following approximate voltages where available:

Single Phase	120/240 volts, or
Three Phase	120/208Y volts, or 277/480Y volts, or
Three Phase	240, 480 volts
Three Phase	4160Y/2400, 12470Y/7200

The type of service supplied will depend upon the voltage available. Prospective customers should ascertain the available supply voltage at the Company's office in Boone, NC, before purchasing equipment.

Motors of less than 5 hp may be single phase. All motors of more than 5 hp must be equipped with starting compensators and all motors of more than 25 hp must be of the slip ring type except that the Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

Monthly Rate Schedule "A"

Distribution Facilities Charge	\$16.97 per kW
Power Demand Charge	\$7.87 per kW
Power Energy Charge	\$0.040121 per kWh

Billing Demand for Distribution Facilities Charge

The average maximum 15-minute kW demand measured at the ASU Substation meters plus the kW demand measured at any on-site generation in excess of 10 kW serving ASU Campus load at the same time as the ASU Substation kW demand.

Billing Demand for Power Demand Charge

The average maximum 15-minute kW demand measured at the ASU Substation meters.

Rider

The following rider is applicable to service supplied under this schedule. The currently approved kWh charges (increment or decrement) for the following rider will be added to the kWh Energy Charge shown above in the determination of the monthly bill.

PPAC&CACR Purchased Power Adjustment Clause and Coal Ash Cost Recovery

Payment

Bills under this schedule are issued on the last working day of the month, and due and payable as of the billing date, or, if not received by said billing date, upon receipt. Bills are considered past due on the 15th day of the month following the billing date. Bills are considered delinquent twenty-five (25) days after the billing date and will be assessed a one percent (1%) late payment charge. If any bill is not paid, the Company has the right to suspend service.

New River Light and Power Company
Security Lighting Service
Schedule "OL"

Availability

This service is available to all customers of the Company to be used to light outdoor areas, private streets, and driveways. The lighting units may be mercury vapor, sodium vapor, or metal halide bracket mounted on Company owned poles.

Service

Company shall provide all materials and install, operate, maintain, and provide energy required for illumination of the lighting units from dusk to dawn. The Company will offer as standard units the following lamps installed on wooden poles at the monthly rate approved by the North Carolina Utilities Commission:

Fixtures

100 Watt Sodium Vapor
175 Watt Mercury Vapor
400 Watt Mercury Vapor
150 Watt Sodium Vapor
250 Watt Sodium Vapor
400 Watt Metal Halide

Mounting Arm

Short Arm
Gooseneck
Cobra Head
Cobra Head
Cobra Head
Short Arm

Monthly charge per fixture identified by Schedule "OL" Tariff approved by Commission

Condition of Service

All facilities necessary to provide this service including fixtures, lamps, controls, poles, other structures, hardware, transformers, and conductors will be owned and maintained by the Company. The Company will replace burned-out lamps and otherwise maintain the luminaries during regular working hours as soon as practicable following notification by the Customer of the necessity.

All Customers must enter into a contract with the Company prior to the Company providing requested service.

All Customers will provide deposit security of 50% of the charges, based on the current retail rate, for the contract period unless Customer owns the premises, provide a guarantor and/or has through payment history established a good credit rating as defined by having no more than two (2) delinquent payments during preceding twelve (12) months. Company will pay interest on the deposit at an annual rate of 8% beginning with the 91st day of service.

Should Customer request termination of service prior to completing contract time, Customer will be responsible for payment of charges for the remaining months using the monthly rate at the time contract was signed. This payment is due in lump sum at the time of requesting discontinuance of service.

Temporary Service

Request for temporary lighting which includes seasonal customer, carnivals, flea markets, fairs, etc. will be available at the Company's option. The Customer will be subject to an in-and-out charge, which will consist of the labor to install and remove, material installed less the anticipated value at removal, to be paid in advance. No contract will be required for service.

Monthly Rate

Lighting Fixtures and Poles	Monthly Charge
175 Watt Mercury Vapor	\$ 12.36
400 Watt Mercury Vapor TV	\$ 23.70
150 Watt Sodium Vapor Cobra Head	\$ 13.34
250 Watt Sodium Vapor Cobra Head	\$ 18.05
250 Watt Sodium Vapor Shoebox	\$ 20.35
400 Watt Metal Halide Cobra Head	\$ 26.06
400 Watt Metal Halide Flood TV	\$ 26.39
400 Watt Metal Halide Shoebox	\$ 28.29
250 Watt Metal Halide Cobra Head	\$ 18.74
250 Watt Metal Halide Decashield	\$ 18.46
150 Watt SV TOB	\$ 6.32
175 Watt MV TOB	\$ 7.38
250 Watt SV TOB	\$ 10.54
250 Watt Metal Halide TOB	\$ 10.54
400 Watt MV TOB	\$ 16.86
400 Watt SV TOB	\$ 16.86
400 Watt Metal Halide TOB	\$ 16.86
750 Watt SV TOB	\$ 31.61
Shakespeare Fiberglass Bronze Poles	\$ 11.87
30' Wood Pole	\$ 3.97

Rider

The following rider is applicable to service supplied under this schedule. The currently approved kWh charges (increment or decrement) for the following rider will be added to the monthly fixture charges based on the estimated kWh usage per light fixture.

PPAC&CACR- Purchased Power Adjustment Clause and Coal Ash Cost Recovery

Payment

Bills under this schedule are due and payable as of the billing date, or, if not received by said billing date, upon receipt. Bills are considered past due twenty-five (25) days after the billing date. Past due accounts are subject to disconnection after expiration of past due procedures. Bills that are past due will be assessed a one percent (1%) late payment charge.

Re-connection of service after disconnection will be made upon payment of bill in full. A reconnect charge of \$11.50 per reconnect will be charged.

New River Light and Power Company
Purchased Power Adjustment Clause and Coal Ash Cost Recovery Rider
Schedule "PPAC&CACR"

Since January 1, 2021, New River Light & Power Company ("NRLP") has received wholesale power supply from Carolina Power Partners LLC ("CPP"). Prior to receiving wholesale power supply from CPP, NRLP received wholesale power supply from Blue Ridge Electric Membership Corporation ("BREMCO") which, in turn, receives power supply from Duke Energy Carolinas ("DEC"). The cost of wholesale power from DEC was passed through to NRLP from BREMCO.

Purchased Power Adjustment Clause

Service supplied under NRLP's rate schedules are subject to approved purchased power cost adjustments, if any, over or under the rate set forth in the approved rate schedules. Adjustments are made pursuant to North Carolina General Statute 62-133.2 and North Carolina Utilities Commission Rule R8-55 as ordered by the North Carolina Utilities Commission.

All electric services supplied under NRLP's rate schedules are subject to an increment per kWh as periodically filed by NRLP and approved by the North Carolina Utilities Commission.

Coal Ash Cost Recovery

Effective July 1, 2017, the power supply agreement between DEC and BREMCO was amended to allow recovery of costs to comply with (i) the North Carolina Coal Ash Management Act 2014 N. C. Sess. Laws 122; 2014 N.C. Ch. 122; 2013 N. C. SB 729, as amended June 2015 by the Mountain Energy Act, N. C. SB716 as further amended by the Drinking Water Protection/Coal Ash Cleanup Act, House Bill 603/S.L. 2016-95, and (ii) The Hazardous and Solid Waste Management System: Disposal of Coal Combustion Residuals from Electric Utilities promulgated by the United States Environmental Protection Agency and published on April 17, 2015, 80 Fed. Reg 21302, as may be amended from time to time (“Coal Ash Costs”).

This Coal Ash Cost Recovery (“CACR”) provides for a charge or credit to NRLP’s customers to recover charges from BREMCO for recovery of DEC’s Coal Ash Costs. This Schedule CACR is applicable to all NRLP Rate Schedules. This adjustment is not included in the rate schedules of NRLP and therefore, must be applied to the bill as periodically filed by NRLP and approved by the North Carolina Utilities Commission.

New River Light and Power Company
Miscellaneous Service Charges
Schedule "MS"

Deposit:

The Company may require a deposit before beginning service or before reestablishing service or in the event of a material change of circumstances as allowed by the Rules and Regulations of the North Carolina Utilities Commission (Commission). The amount of the deposit and the interest paid on deposits will be in accordance with the Rules and Regulations of the Commission. The Company may require an increase or allow a decrease in the deposit if changes occur in the amount of bills rendered to the Customer. The Company may refund a deposit at any time. When service is discontinued, the Company will refund the deposit plus any accumulated interest, less any unpaid bills.

Connect Charge:

When the Company first supplies electricity under any rate schedule, the Customer shall pay the Company a connection charge of \$11.50. This charge shall become a part of the first bill rendered to Customer for electricity supplied at such premises. The connection charge applies to any new service set up which requires a field trip to read the meter, install a meter, connect a meter or install new facilities.

Connect Charge Commercial Temporary:

When the Company supplies temporary electricity under Schedule G or Schedule GL, the Customer shall pay the Company a connection charge of \$15.00. This charge shall become a part of the first bill rendered to Customer for electricity supplied at such premises. The connection charge applies to any commercial temporary service which requires a field trip to read the meter, install a meter, connect a meter or install new facilities.

Reconnect Fee:

In case of discontinuance of service for any reason except repairs or other necessary work by the Company, the Customer shall pay the Company a reconnect charge of \$11.50 before service will be restored.

Returned Payment Fee:

When a check, electronic check, bank draft, debit card or credit card tendered for payment of a Customer's account, is subsequently returned by a financial institution due to a failure of the issuer's financial institution to honor the payment for good and sufficient reason, a \$21.00 fee will be charged to the Customer for each such returned

payment. The Company, at its option for good cause, may refuse to accept a check, electronic check, debit card, or credit card tendered as payment on a Customer's account.

Extra Facilities Charge:

At the request of the Customer, the Company will furnish, install, own and maintain facilities which are in addition to those necessary for delivery of service at one point, through one meter, at one voltage, in accordance with the applicable rate schedule. Such additional facilities will be in accordance with the following provisions:

1. "Extra Facilities" shall consist of the following as may be required: voltage regulators, circuit breakers, duplicate service, transformers, substations, connecting lines, off-site facilities or other equipment installed for the use of the contracting Customer, other than facilities which the Company would furnish to the Customer without cost under its applicable rate schedule.
2. The monthly "Extra Facilities Charge" shall be equal to 0.9% of the installed cost of the facilities, but not less than \$25, shall be billed to the Customer in addition to the billing for energy, or for demand plus energy, in accordance with the applicable rate schedule.
3. The "installed cost of extra facilities" shall be the original cost of material used, including spare equipment, if any, plus applicable labor, transportation, stores, tax, engineering and general expenses, all estimated if not known.

The Company shall have the option of refusing requests for extra facilities if, on its own determination, the requested facilities are not feasible, or may adversely affect the Company's service to other customers.

New River Light and Power Company
LED Lighting Service
Schedule "LEDL"

Availability

This service is available to all customers of the Company to be used to light outdoor areas, private streets, and driveways.

Condition of Service

All facilities necessary to provide this service including fixtures, lamps, controls, poles, other structures, hardware, transformers, and conductors will be owned and maintained by the Company unless otherwise noted. For all Company owned facilities, the Company will replace burned-out lamps and otherwise maintain the luminaries during regular working hours as soon as practicable following notification by the Customer of the necessity.

All Customers must enter into a contract with the Company prior to the Company providing requested service.

All Customers will provide deposit security of 50% of the charges, based on the current retail rate, for the contract period unless Customer owns the premises, provide a guarantor and/or has through payment history established a good credit rating as defined by having no more than two (2) delinquent payments during preceding twelve (12) months. Company will pay interest on the deposit at an annual rate of 8% beginning with the 91st day of service.

Should Customer request termination of service prior to completing contract time, Customer will be responsible for payment of charges for the remaining months using the monthly rate at the time contract was signed. This payment is due in lump sum at the time of requesting discontinuance of service.

Temporary Service

Request for temporary lighting which includes seasonal customer, carnivals, flea markets, fairs, etc. will be available at the Company's option. The Customer will be subject to an in-and-out charge, which will consist of the labor to install and remove, material installed less the anticipated value at removal, to be paid in advance. No contract will be required for service.

Monthly Rate Schedule "LEDL"

Lighting Fixtures and Poles	Monthly Charge
50 Watt Yard Light (No Longer Available)	\$ 4.48
96 Watt LED TV Bronze	\$ 9.99
101 Watt LED Bronze Cobra Head	\$ 12.38
110 Watt LED (No Longer Available)	\$ 7.75
119 Area Light LED Shoebox (No Longer Available)	\$ 10.96
160 Watt Cobra Head LED	\$ 11.63
20 Watt LED TOB	\$ 0.84
27 Watt LED TOB	\$ 1.14
40 Watt LED TOB	\$ 1.69
50 Watt LED TOB	\$ 2.11
80 Watt LED TOB	\$ 3.37
92 Watt LED TOB	\$ 3.88
100 Watt LED TOB	\$ 4.21
106 Watt LED TOB	\$ 4.47
110 Watt LED TOB	\$ 4.64
120 Watt LED TOB	\$ 5.06
136 Watt LED TOB	\$ 5.73
150 Watt LED TOB	\$ 6.32
180 Watt LED TOB	\$ 7.59
Shakespeare Fiberglass Bronze Poles	\$ 11.87
30' Wood Pole	\$ 3.97

Rider

The following rider is applicable to service supplied under this schedule. The currently approved kWh charges (increment or decrement) for the following rider will be added to the monthly fixture charges based on the estimated kWh usage per light fixture.

PPAC&CACR Purchased Power Adjustment Clause and Coal Ash Cost Recovery

Payment

Bills under this schedule are due and payable as of the billing date, or, if not received by said billing date, upon receipt. Bills are considered past due twenty-five (25) days after the billing date. Past due accounts are subject to disconnection after expiration

HALLEY SETTLEMENT EXHIBIT NO. 1
MODIFIED PROPOSED RATES
DOCKET NO. E-34, SUBS 54 & 55

of past due procedures. Bills that are past due will be assessed a one percent (1%) late payment charge.

Re-connection of service after disconnection will be made upon payment of bill in full. A reconnect charge of \$11.50 per reconnect will be charged.

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New River Light and Power Company
Non-Standard Meter Rider
Schedule "NSMR"

Availability

Available to customers of New River Light & Power Company (NRLP).

Applicability

This Rider is available on a voluntary basis to customers who elect to have a non-standard meter that requires a manual meter read in lieu of a standard AMI meter which does not require a manual meter read ("Opt-Out Customer"). Customers who fail to provide reasonable access to premises, request to Opt-Out or otherwise prevent replacement of the non-standard meter with a standard AMI meter shall be deemed to have elected to take service under Rider NSMR, provided they are not prohibited from doing so pursuant to the "Limitation of Service" provision of this NSMR. Service under this schedule shall be provided with a non-communicating meter of NRLP's choice.

Limitation of Service

This Rider is available to customers who have not tampered with the electric meter service or used service in a fraudulent or unauthorized manner. This Rider will remain available as long as non-standard meter options are reasonably available and are supported by the manufacturers.

Charges

All charges and provisions of the Opt-Out Customer's otherwise applicable electric service rate schedule shall apply. In addition, Opt-Out Customers who elect service under this Rider will be charged an Initial Setup Fee and a recurring Monthly Surcharge.

Initial Setup Fee: \$77.00

Monthly Surcharge: \$14.25

Term of Service

Service under this Rate Schedule NSMR shall be for a minimum of one (1) billing period. An Opt-Out Customer wishing to discontinue this service will be subject to the current Reconnect Fee to reinstate the customer into NRLP's standard metering service.

New River Light and Power Company
Net Billing Rider for Renewable Energy Facilities
Schedule "NBR"

Availability

This Rider is available to Customers on New River Light and Power Company's (NRLP) Rate Schedules R, G and GL who operate a photovoltaic (PV) generation source of energy that is installed on the Customer's side of the delivery point, for the Customer's own use, and interconnected with and operated in parallel with the Company's distribution system.

The rated AC capacity of the PV generation source shall not be designed to exceed the Customer's anticipated annual peak kilowatt demand or 20 kilowatts (kW) for a residential system or 1,000 kW for a non-residential system, whichever is less. Any PV generation source connected in parallel operation with service from NRLP and located on the Customer's premises must be manufactured, installed, and operated in accordance with all applicable government regulatory and industry standards and must fully conform with the NRLP's applicable interconnection standards.

Monthly Rate

The bill amount will be computed under the applicable rate schedule, including any other applicable riders. Energy Charges (or Credits) shall be based on the net kilowatt hours (kWh) purchased from or delivered to NRLP for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on the following month's bill. Effective on January 1 of each year, any accrued credit will be reset to zero. Credits shall not offset the Basic Facilities Charge or the Demand Charge.

NRLP will also charge Customer a Standby Supplemental Charge (SSC) for distribution facilities required to serve the Customer's full load at times when the PV generation energy source is not available. The monthly bill amount to Customer under this NBR Rider will include an SSC.

Standby Supplemental Charge: A monthly per kW charge applied to the AC nameplate capacity of the PV generation energy source installed will be applied as follows:

Customers receiving service under Schedule R - \$5.92 per kW
Customers receiving service under Schedule G - \$6.39 per kW
Customers receiving service under Schedule GL - \$3.59 per kW

Any renewable energy credits (RECs) associated with electricity delivered to the grid by the Customer under Schedule NBR shall be retained by the Customer.

Rider Requirements and Conditions

1. The Customer must complete an interconnection request and submit same to NRLP prior to receiving service under this Rider.
2. In the event NRLP determines that it is necessary to install a dedicated transformer or other equipment to protect the safety and adequacy of electric service provided to other customers, the Customer shall pay an Extra Facilities Charge as identified in NRLP's Schedule MS.
3. By subscribing to this Rider, the Customer grants NRLP access to Customer's property and premises as necessary to test the Customer's PV generation energy source for compliance with the applicable interconnection standards of NRLP. Should it be determined that the Customer's installation is in violation, NRLP will disconnect the PV generation energy source from NRLP's distribution system. The PV generation energy source will remain disconnected until the installation is brought back into compliance.
4. If the Customer is not the owner of the premises receiving electric service from NRLP, the owner of the premises, at NRLP's request, must give satisfactory written approval of the Customer's acceptance of service under this Rider.

Contract Period

The Initial Period for service under this Rider shall be one year and thereafter shall be automatically renewed for successive one-year periods. After the initial period, the Customer may terminate service under this Rider by giving at least sixty (60) days prior written notice to NRLP of such termination. NRLP may terminate this service under the terms of the Customer's applicable Rate Schedule or for violation of any requirement or condition of this Rider.

New River Light and Power Company
Interruptible Rate Rider
Schedule "IR"

Availability

This Rider is available in conjunction with New River Light and Power Company's (NRLP) Rate Schedule GL to Customers who have the ability to interrupt all or a portion of their connected load to NRLP's system.

The Customer must have a total load requirement of at least 2 MW and have the ability to curtail at least 75% of its electric load.

Monthly Interruptible Rate

If the Customer is successful in reducing its demand from NRLP's system during the actual hour of NRLP's monthly coincident peak (CP) demand for purposes of calculating its capacity costs from Carolina Power Partners, the customer will receive a credit of \$14.26 per kW of load reduced at the time of CP. NRLP will assist the Customer with estimating these CP times each month to reduce the number of curtailable hours but does not guarantee that the Customer's demand will be reduced on the actual CP hour for each month. The calculation of this credit will be determined no later than the 15th of the month following the month of curtailment.

The payment of any credit under Schedule IR will occur only in the event that the Customer is able to curtail load at the time of the coincident peak. No credits will be paid if the Customer is unable to curtail or if the curtailment does not align with the coincident peak.

New River Light and Power Company
Purchased Power from Renewable Energy Facilities (a.k.a. Buy All / Sell All)
Schedule "PPR"

Availability

This Schedule is available to Sellers who operate a photovoltaic (PV) generation energy source in parallel with New River Light and Power Company's (NRLP) system. The Seller's PV generation energy source must be located at a site that would allow interconnection with NRLP's distribution system.

The rated AC capacity of the PV generation energy source shall not be designed to exceed 1,000 kilowatts (kW). The PV generation energy source connected in parallel operation with NRLP must be manufactured, installed, and operated in accordance with all applicable government regulatory and industry standards and must fully conform with the NRLP's applicable interconnection standards.

For generation facilities, other than those described above, that fall under the definition of Qualifying Facilities as defined by the Federal Energy Regulatory Commission's Order No. 70 under Docket No. RM79-54 and 18 C.F.R. §§ 292.203, 292.204, and 292.205, the reimbursement for purchased power from these other Qualifying Facilities is based on NRLP's Schedules Rate SPP Demand, Rate SPP No Demand and Rate SP Fixed as established by North Carolina Utilities Commission.

Type of Service

NRLP will receive 60 cycle service through one meter, at one delivery point, at one of the following approximate voltages where available:

Single Phase 120/240 volts, or
Three Phase 120/208Y volts, or
Other available voltages at NRLP's option.

The type of service supplied will depend upon the voltage available. Prospective Sellers should ascertain the available system voltage at NRLP's office in Boone, NC, before purchasing equipment.

Monthly Rate

NRLP shall pay for energy delivered to NRLP under this Schedule at the energy credits set forth below.

Energy Credit: \$0.060938 per kWh per month.

This Energy Credit is subject to change with each of NRLP's future Purchased Power Adjustment Clause filings as referenced in NRLP's Schedule "PPAC&CACR".

Any renewable energy credits (RECs) associated with electricity delivered to the grid by the Customer under Schedule PPR shall be retained by the Customer.

Rider Requirements and Conditions

1. The Seller must complete an interconnection request and submit same to NRLP prior to receiving service under this Schedule.
2. In the event NRLP determines that it is necessary to install a dedicated transformer or other equipment to protect the safety and adequacy of electric service provided to other customers, the Seller shall pay an Extra Facilities Charge as identified in NRLP's Schedule MS.
3. By subscribing to this Rider, the Customer grants NRLP access to Customer's property and premises as necessary to test the Seller's PV generation energy source for compliance with the applicable interconnection standards of NRLP. Should it be determined that the Seller's installation is in violation, NRLP will disconnect the PV generation energy source from NRLP's distribution system. The PV generation energy source will remain disconnected until the installation is brought back into compliance.
4. If the Seller is not the owner of the premises where the PV generation energy source is located, the owner of the premises, at NRLP's request, must give satisfactory written approval of the Seller's acceptance of service under this Schedule.

Contract Period

The Initial Period for service under this Schedule shall be one year and thereafter shall be automatically renewed for successive one-year periods. After the initial period, the Seller may terminate service under this Schedule by giving at least sixty (60) days prior written notice to NRLP of such termination. NRLP may terminate this service under the terms of the Customer's applicable Rate Schedule or for violation of any requirement or condition of this Rider.

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021**

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
Allocation Factors								
Customer (c), Demand (d), Energy (e)								
Production (p), Transmission (t), Distribution (d), Customer (c)								
1.01	Residential	c c	1.000000	1.000000	0.000000	0.000000	0.000000	0.000000
1.02	Commercial General	c c	1.000000	0.000000	1.000000	0.000000	0.000000	0.000000
1.03	Commercial Demand	c c	1.000000	0.000000	0.000000	1.000000	0.000000	0.000000
1.04	ASU Campus	c c	1.000000	0.000000	0.000000	0.000000	1.000000	0.000000
1.05	Lighting	c c	1.000000	0.000000	0.000000	0.000000	0.000000	1.000000
ENERGY ALLOCATOR:								
Usage in kWh								
2.01	Allocation %	e p	209,408,694 100.00%	64,315,439 30.71%	23,499,170 11.22%	74,161,349 35.41%	44,774,302 21.38%	2,658,434 1.27%
2.02	Allocation % (Excluding Lighting)		100.00%	31.11%	11.37%	35.87%	21.66%	0.00%
Residential and Commercial Usage Only								
2.03	Allocation %	e p	161,975,958 100.00%	64,315,439 39.71%	23,499,170 14.51%	74,161,349 45.79%		
DEMAND ALLOCATORS								
DEC 20CP Peak Demands - Average kW								
3.01	Allocation %	d t	30,313 100.00%	6,879 22.69%	3,735 12.32%	11,316 37.33%	8,383 27.66%	- 0.00%
DEC Transmission Peak Demands - Average kW								
3.02	Allocation %	d t	28,835 100.00%	8,359 28.99%	3,603 12.50%	10,782 37.39%	6,090 21.12%	- 0.00%
BREMCO Distribution Peak Demands - Average kW								
3.03	Allocation %	d t	29,993 100.00%	9,579 31.94%	3,726 12.42%	11,117 37.07%	5,571 18.57%	- 0.00%
CPP CP Peak Demands - Average kW								
3.04	Allocation %	d p	28,533 100.00%	8,234 28.86%	3,574 12.53%	10,667 37.39%	6,058 21.23%	- 0.00%
NRLP Distribution Peak Demands - Average kW								
3.05	Allocation %	d d	30,403 100.00%	8,886 29.23%	3,966 13.05%	11,433 37.60%	6,118 20.12%	- 0.00%
Customer Class CP Peak Demands - Average kW								
3.06	Allocation %	d d	34,554 100.00%	10,544 30.51%	4,312 12.48%	11,387 32.96%	7,703 22.29%	607 1.76%
CUSTOMER ALLOCATORS:								
Average Number of Customers								
4.01	Allocation %	c c	9,185 100.00%	7,340 79.91%	1,480 16.11%	274 2.98%	1 0.01%	90 0.98%
4.02	Weighted Cust (excl. lighting)/Energy/NRLP Dist. Peak Demand Alloc [1]	c c	100.00%	42.57%	13.43%	28.52%	15.48%	0.00%
4.03	Weighted Cust (excl. lighting)/NRLP Dist. Peak Demand Alloc [2]	c c	100.00%	67.84%	15.46%	11.66%	5.04%	0.00%
4.04	Number of Customers Excluding Lighting Allocation %	c c	100.00%	80.71%	16.27%	3.01%	0.01%	0.00%
4.05	Weighted Cust/Cust Class CP Peak Demand Alloc [3]	c c	100.00%	67.56%	15.20%	10.48%	5.58%	1.17%

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021**

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
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Notes:

[1] 4.02 - Weighted Customer Allocation:

50.00% of NRLP Dist Peak Allocation 3.05
25.00% of Customer Allocation 4.04
25.00% of Energy Allocation 2.02

[2] 4.03 - Weighted Customer Allocation w/o Lighting:

25.00% of NRLP Dist Peak Allocation 3.05
75.00% of Customer Allocation 4.04

[3] 4.05 - Weighted Customer Allocation w/ Lighting:

25.00% of Cust Class CP Allocation 3.06
75.00% of Customer Allocation 4.01

Current Base Rate Revenues

1.01	Energy Charges		\$ 13,682,882	\$ 5,791,219	\$ 2,036,979	\$ 4,021,177	\$ 1,833,508	\$ -
1.02	Demand Charges		\$ 2,571,799	\$ -	\$ -	\$ 1,762,944	\$ 808,855	\$ -
1.03	Customer Charges (Lighting includes O&M and purchased power only)		\$ 2,707,511	\$ 1,108,097	\$ 309,344	\$ 76,371	\$ 982,643	\$ 231,057
1.04	Total Revenues from Current Rates		\$ 18,962,192	\$ 6,899,316	\$ 2,346,323	\$ 5,860,491	\$ 3,625,006	\$ 231,057
REV1	Total Revenue Allocator	c c	100.00%	36.38%	12.37%	30.91%	19.12%	1.22%
REV2	Total Revenue Allocator Excluding ASU	c c	100.00%	44.98%	15.30%	38.21%	0.00%	1.51%
REV3	Total Revenue Allocator Excluding Lighting	c c	100.00%	36.83%	12.53%	31.29%	19.35%	0.00%

Other Operating Income

2.00	Revenue Job & Contract ASU	c c	REV3	\$ (92,216)	\$ (33,966)	\$ (11,551)	\$ (28,852)	\$ (17,846)	\$ -
2.01	Rev Job&Con TOB	c c	REV3	\$ (2,779)	\$ (1,024)	\$ (348)	\$ (870)	\$ (538)	\$ -
2.02	Int Inc Other	c c	REV3	\$ (2,280)	\$ (840)	\$ (286)	\$ (713)	\$ (441)	\$ -
2.03	Misc Non-Operating Income	c c	REV3	\$ (1)	\$ (0)	\$ (0)	\$ (0)	\$ (0)	\$ -
2.04	Misc Svc Revenue-Conn & Reconnect Chrgs	c c	REV3	\$ 44,466	\$ 16,378	\$ 5,570	\$ 13,912	\$ 8,605	\$ -
2.05	Rent Electric Property	c c	REV3	\$ 17,683	\$ 6,513	\$ 2,215	\$ 5,533	\$ 3,422	\$ -
2.06	Rent Electric Property-Fiber	c c	REV3	\$ 9,809	\$ 3,613	\$ 1,229	\$ 3,069	\$ 1,898	\$ -
2.07	Oth Elect Revenue	c c	REV3	\$ 52,251	\$ 19,246	\$ 6,545	\$ 16,348	\$ 10,112	\$ -
2.08	Total Other Operating Income		Sum	\$ 26,934	\$ 9,921	\$ 3,374	\$ 8,427	\$ 5,212	\$ -
2.09	Total Revenues		Sum	\$ 18,989,126	\$ 6,909,237	\$ 2,349,697	\$ 5,868,918	\$ 3,630,218	\$ 231,057

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021**

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
Purchased Power								
3.00	CPP Energy Expense	e p 2.01	\$ 8,811,967	\$ 2,706,409	\$ 988,851	\$ 3,120,727	\$ 1,884,113	\$ 111,868
3.01	CPP PEAK Prepaid Gas Discount	e p 2.01	\$ (422,092)	\$ (129,636)	\$ (47,366)	\$ (149,482)	\$ (90,249)	\$ (5,358)
3.02	CPP Demand Expense	d p 3.04	\$ 5,171,700	\$ 1,492,417	\$ 647,789	\$ 1,933,444	\$ 1,098,050	\$ -
3.03	CPP Generation Credit (Assigned to ASU as "Demand" & "Production")	d p 1.04	\$ (796,500)	\$ -	\$ -	\$ -	\$ (796,500)	\$ -
3.04	DEC Transmission Expense	d t 3.02	\$ 686,169	\$ 198,926	\$ 85,738	\$ 256,577	\$ 144,928	\$ -
3.05	BREMCO Distribution Expense	d t 3.03	\$ 1,404,233	\$ 448,466	\$ 174,462	\$ 520,485	\$ 260,820	\$ -
3.06	BREMCO DEC 20CP Losses True Up	d t 3.01	\$ 74,612	\$ 16,932	\$ 9,193	\$ 27,853	\$ 20,634	\$ -
3.07	Avoided Costs for Retail Customer Renewable Energy	e p 2.01	\$ 10,018	\$ 3,077	\$ 1,124	\$ 3,548	\$ 2,142	\$ 127
3.08	Adjustment for PS Cust Growth	e p Calc	\$ 298,331	\$ 176,085	\$ 19,548	\$ 102,872	\$ -	\$ (173)
3.09	Total Purchased Power Expense	Sum	\$ 15,238,439	\$ 4,912,674	\$ 1,879,339	\$ 5,816,024	\$ 2,523,939	\$ 106,463
Total Purchased Power Expense			\$ 15,238,439	\$ 4,912,674	\$ 1,879,339	\$ 5,816,024	\$ 2,523,939	\$ 106,463
	Customer-Related	c	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Energy-Related	e	\$ 8,698,224	\$ 2,755,934	\$ 962,157	\$ 3,077,665	\$ 1,796,006	\$ 106,463
	Demand-Related	d	\$ 6,540,215	\$ 2,156,741	\$ 917,182	\$ 2,738,359	\$ 727,932	\$ -
Total Purchased Power Expense			\$ 15,238,439	\$ 4,912,674	\$ 1,879,339	\$ 5,816,024	\$ 2,523,939	\$ 106,463
	Customer-Related	c	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Distribution-Related	d	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Transmission-Related	t	\$ 2,165,014	\$ 664,323	\$ 269,393	\$ 804,915	\$ 426,383	\$ -
	Production-Related	p	\$ 13,073,425	\$ 4,248,351	\$ 1,609,946	\$ 5,011,109	\$ 2,097,556	\$ 106,463
Gross Income								
4.00	Revenues less Purchased Power	Sum	\$ 3,750,687	\$ 1,996,562	\$ 470,358	\$ 52,894	\$ 1,106,280	\$ 124,594

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**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021**

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
Electric Operating & Maintenance Expenses								
<u>Expense Job & Contract ASU</u>								
5.00	Expense Job & Contract ASU	c c REV3	\$ (64,921)	\$ (23,913)	\$ (8,132)	\$ (20,312)	\$ (12,564)	\$ -
5.01	Expense Job & Contract ASU-Labor	c c REV3	\$ 23,698	\$ 8,729	\$ 2,968	\$ 7,414	\$ 4,586	\$ -
5.02	Expense Job & Contract ASU-Benefits	c c REV3	\$ 17,149	\$ 6,316	\$ 2,148	\$ 5,365	\$ 3,319	\$ -
5.03	Expense Job & Contract ASU-Transportation	c c REV3	\$ (1,948)	\$ (718)	\$ (244)	\$ (609)	\$ (377)	\$ -
5.04	Expense Job & Contract TOB-Labor	c c REV3	\$ (575)	\$ (212)	\$ (72)	\$ (180)	\$ (111)	\$ -
5.05	Expense Job & Contract TOB-Benefits	c c REV3	\$ (1,250)	\$ (461)	\$ (157)	\$ (391)	\$ (242)	\$ -
5.06	Expense Job & Contract TOB-Transportation	c c REV3	\$ (91)	\$ (34)	\$ (11)	\$ (28)	\$ (18)	\$ -
5.07	Expense Job & Contract Camp Broadstone	c c REV3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5.08	Expense Job & Contract Camp Broadstone-Benefits	c c REV3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5.09	Expense Job & Contract Camp Broadstone-Transportation	c c REV3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5.10	Total Expense Job & Contract ASU	Sum	\$ (27,939)	\$ (10,291)	\$ (3,500)	\$ (8,741)	\$ (5,407)	\$ -
<u>Operations Superv & Engineering</u>								
6.00	Operations Superv & Engineering-Labor	d d 3.06	\$ 97,928	\$ 29,882	\$ 12,222	\$ 32,272	\$ 21,832	\$ 1,720
6.01	Operations Superv & Engineering-Benefits	d d 3.06	\$ 64,778	\$ 19,766	\$ 8,084	\$ 21,348	\$ 14,441	\$ 1,138
6.02	Operations Superv & Engineering-Transportation	d d 3.06	\$ 5,482	\$ 1,673	\$ 684	\$ 1,806	\$ 1,222	\$ 96
6.03	Total Operations Superv & Engineering	Sum	\$ 168,187	\$ 51,321	\$ 20,990	\$ 55,427	\$ 37,495	\$ 2,954
<u>Station Expense</u>								
7.00	Station Expense-Labor	d d 3.06	\$ 19,818	\$ 6,047	\$ 2,473	\$ 6,531	\$ 4,418	\$ 348
7.01	Station Expense-Benefits	d d 3.06	\$ 10,865	\$ 3,315	\$ 1,356	\$ 3,581	\$ 2,422	\$ 191
7.02	Station Expense-Transportation	d d 3.06	\$ 1,074	\$ 328	\$ 134	\$ 354	\$ 239	\$ 19
7.03	Total Station Expense	Sum	\$ 31,757	\$ 9,690	\$ 3,963	\$ 10,466	\$ 7,080	\$ 558
8.00	Overhead Line Expense	d d 3.06	\$ 914	\$ 279	\$ 114	\$ 301	\$ 204	\$ 16
<u>Meter Expense</u>								
9.00	Meter Expense	c c 4.03	\$ 34,405	\$ 23,339	\$ 5,321	\$ 4,012	\$ 1,734	\$ -
9.01	Meter Expense-Labor	c c 4.03	\$ 12,559	\$ 8,520	\$ 1,942	\$ 1,465	\$ 633	\$ -
9.02	Meter Expense-Benefits	c c 4.03	\$ 7,648	\$ 5,188	\$ 1,183	\$ 892	\$ 385	\$ -
9.03	Meter Expense-Transportation	c c 4.03	\$ 711	\$ 482	\$ 110	\$ 83	\$ 36	\$ -
9.04	Total Meter Expense	Sum	\$ 55,324	\$ 37,529	\$ 8,555	\$ 6,451	\$ 2,788	\$ -

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021**

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Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
<u>Customer Install Expense</u>								
10.00	Customer Install Expense-Labor	c c 4.03	\$ 19,818	\$ 13,444	\$ 3,065	\$ 2,311	\$ 999	\$ -
10.01	Customer Install Expense-Benefits	c c 4.03	\$ 10,865	\$ 7,370	\$ 1,680	\$ 1,267	\$ 547	\$ -
10.02	Customer Install Expense-Transportation	c c 4.03	\$ 1,074	\$ 729	\$ 166	\$ 125	\$ 54	\$ -
10.03	Total Customer Install Expense	Sum	\$ 31,757	\$ 21,543	\$ 4,911	\$ 3,703	\$ 1,600	\$ -
<u>Miscellaneous Distribution Expense</u>								
11.00	Miscellaneous Distribution Expense	d d 3.06	\$ 13,532	\$ 4,129	\$ 1,689	\$ 4,459	\$ 3,017	\$ 238
11.01	Miscellaneous Distribution Expense-Labor	d d 3.06	\$ 210,550	\$ 64,247	\$ 26,277	\$ 69,387	\$ 46,939	\$ 3,699
11.02	Miscellaneous Distribution Expense-Benefits	d d 3.06	\$ 133,690	\$ 40,794	\$ 16,685	\$ 44,058	\$ 29,804	\$ 2,348
11.03	Total Miscellaneous Distribution Expense	Sum	\$ 357,771	\$ 109,170	\$ 44,651	\$ 117,905	\$ 79,760	\$ 6,285
<u>Maintenance Superv & Engineering</u>								
12.00	Maintenance Superv & Engineering-Labor	d d 3.06	\$ 74,111	\$ 22,614	\$ 9,249	\$ 24,424	\$ 16,522	\$ 1,302
12.01	Maintenance Superv & Engineering-Benefits	d d 3.06	\$ 41,899	\$ 12,785	\$ 5,229	\$ 13,808	\$ 9,341	\$ 736
12.02	Maintenance Superv & Engineering-Transportation	d d 3.06	\$ 4,030	\$ 1,230	\$ 503	\$ 1,328	\$ 898	\$ 71
12.03	Total Maintenance Superv & Engineering	Sum	\$ 120,040	\$ 36,629	\$ 14,981	\$ 39,560	\$ 26,761	\$ 2,109
<u>On Call Pay</u>								
13.00	On Call Pay -Primary/Secondary	d d 3.06	\$ 13,346	\$ 4,072	\$ 1,666	\$ 4,398	\$ 2,975	\$ 234
13.01	On Call Pay-Primary/Secondary Benefits	d d 3.06	\$ 8,985	\$ 2,742	\$ 1,121	\$ 2,961	\$ 2,003	\$ 158
13.02	Total On Call Pay	Sum	\$ 22,331	\$ 6,814	\$ 2,787	\$ 7,359	\$ 4,978	\$ 392
<u>Maintenance Station Equipment</u>								
14.00	Maintenance Station Equipment	d d 3.06	\$ 2,006	\$ 612	\$ 250	\$ 661	\$ 447	\$ 35
14.01	Maintenance Station Equipment-Labor	d d 3.06	\$ 9,981	\$ 3,046	\$ 1,246	\$ 3,289	\$ 2,225	\$ 175
14.02	Maintenance Station Equipment-Benefits	d d 3.06	\$ 811	\$ 247	\$ 101	\$ 267	\$ 181	\$ 14
14.03	Maintenance Station Equipment-Transportation	d d 3.06	\$ 382	\$ 117	\$ 48	\$ 126	\$ 85	\$ 7
14.04	Total Maintenance Station Equipment	Sum	\$ 13,181	\$ 4,022	\$ 1,645	\$ 4,344	\$ 2,938	\$ 232
<u>Maintenance Overhead Lines</u>								
15.00	Maintenance Overhead Lines	d d 3.06	\$ 235,624	\$ 71,898	\$ 29,407	\$ 77,651	\$ 52,529	\$ 4,139
15.01	Maintenance Overhead Lines-Labor	d d 3.06	\$ 67,425	\$ 20,574	\$ 8,415	\$ 22,220	\$ 15,031	\$ 1,184
15.02	Maintenance Overhead Lines-Benefits	d d 3.06	\$ 41,867	\$ 12,775	\$ 5,225	\$ 13,797	\$ 9,334	\$ 735
15.03	Maintenance Overhead Lines-Transportation	d d 3.06	\$ 3,970	\$ 1,211	\$ 495	\$ 1,308	\$ 885	\$ 70
15.04	Total Maintenance Overhead Lines	Sum	\$ 348,885	\$ 106,459	\$ 43,542	\$ 114,976	\$ 77,779	\$ 6,129

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021**

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
<u>Maintenance Underground Lines</u>								
16.00	Maintenance Underground Lines	d d 3.06	\$ 48,534	\$ 14,810	\$ 6,057	\$ 15,995	\$ 10,820	\$ 853
16.01	Maintenance Underground Lines-Labor	d d 3.06	\$ 38,032	\$ 11,605	\$ 4,747	\$ 12,533	\$ 8,479	\$ 668
16.02	Maintenance Underground Lines-Benefits	d d 3.06	\$ 10,916	\$ 3,331	\$ 1,362	\$ 3,597	\$ 2,434	\$ 192
16.03	Maintenance Underground Lines-Transportation	d d 3.06	\$ 2,080	\$ 635	\$ 260	\$ 685	\$ 464	\$ 37
16.04	Total Maintenance Underground Lines	Sum	\$ 99,562	\$ 30,380	\$ 12,426	\$ 32,811	\$ 22,196	\$ 1,749
<u>Maintenance Line Transformers</u>								
17.00	Maintenance Line Transformers	d d 3.06	\$ 35,058	\$ 10,698	\$ 4,375	\$ 11,554	\$ 7,816	\$ 616
17.01	Maintenance Line Transformers-Labor	d d 3.06	\$ 921	\$ 281	\$ 115	\$ 303	\$ 205	\$ 16
17.02	Maintenance Line Transformers-Benefits	d d 3.06	\$ 540	\$ 165	\$ 67	\$ 178	\$ 120	\$ 9
17.03	Maintenance Line Transformers-Transportation	d d 3.06	\$ 52	\$ 16	\$ 6	\$ 17	\$ 12	\$ 1
17.04	Total Maintenance Line Transformers	Sum	\$ 36,571	\$ 11,159	\$ 4,564	\$ 12,052	\$ 8,153	\$ 642
<u>Maintenance Street Lights</u>								
18.00	Maintenance Street Lights	c c 1.05	\$ 26,291	\$ -	\$ -	\$ -	\$ -	\$ 26,291
18.01	Maintenance Street Lights-Labor	c c 1.05	\$ 24,958	\$ -	\$ -	\$ -	\$ -	\$ 24,958
18.02	Maintenance Street Lights-Benefits	c c 1.05	\$ 9,461	\$ -	\$ -	\$ -	\$ -	\$ 9,461
18.03	Maintenance Street Lights-Transportation	c c 1.05	\$ 1,007	\$ -	\$ -	\$ -	\$ -	\$ 1,007
18.04	Total Maintenance Street Lights	Sum	\$ 61,717	\$ -	\$ -	\$ -	\$ -	\$ 61,717
<u>Maintenance-Meters</u>								
19.00	Maintenance-Meters	c c 4.03	\$ 11,439	\$ 7,760	\$ 1,769	\$ 1,334	\$ 576	\$ -
19.01	Maintenance-Meters-Labor	c c 4.03	\$ 45,710	\$ 31,007	\$ 7,069	\$ 5,330	\$ 2,303	\$ -
19.02	Maintenance-Meters-Benefits	c c 4.03	\$ 24,422	\$ 16,567	\$ 3,777	\$ 2,848	\$ 1,231	\$ -
19.03	Maintenance-Meters-Transportation	c c 4.03	\$ 2,605	\$ 1,767	\$ 403	\$ 304	\$ 131	\$ -
19.04	Total Maintenance-Meters	Sum	\$ 84,176	\$ 57,101	\$ 13,017	\$ 9,816	\$ 4,242	\$ -
<u>Maintenance Misc Distribution Plant</u>								
20.00	Maintenance Misc Distribution Plant	d d 3.06	\$ 374	\$ 114	\$ 47	\$ 123	\$ 83	\$ 7
20.01	Maintenance Misc Distribution Plant-Labor	d d 3.06	\$ 77,328	\$ 23,596	\$ 9,651	\$ 25,484	\$ 17,239	\$ 1,358
20.02	Maintenance Misc Distribution Plant-Benefits	d d 3.06	\$ (12,135)	\$ (3,703)	\$ (1,515)	\$ (3,999)	\$ (2,705)	\$ (213)
20.03	Maintenance Misc Distribution Plant-Transportation	d d 3.06	\$ 2,328	\$ 710	\$ 290	\$ 767	\$ 519	\$ 41
20.04	Total Maintenance Misc Distribution Plant	Sum	\$ 67,895	\$ 20,718	\$ 8,474	\$ 22,375	\$ 15,136	\$ 1,193

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021**

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
<u>Supervision Customer Accounts</u>								
21.00	Supervision Customer Accounts-Labor	c c 4.05	\$ 30,303	\$ 20,474	\$ 4,607	\$ 3,175	\$ 1,691	\$ 356
21.01	Supervision Customer Accounts-Benefits	c c 4.05	\$ 17,878	\$ 12,079	\$ 2,718	\$ 1,873	\$ 998	\$ 210
21.02	Supervision Customer Accounts-Transportation	c c 4.05	\$ 1,650	\$ 1,115	\$ 251	\$ 173	\$ 92	\$ 19
21.03	Total Supervision Customer Accounts	Sum	\$ 49,831	\$ 33,668	\$ 7,576	\$ 5,221	\$ 2,781	\$ 585
<u>Meter Reading Expense</u>								
22.00	Meter Reading Expense	c c 4.04	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22.01	Meter Reading Expense-Labor	c c 4.04	\$ 480	\$ 388	\$ 78	\$ 14	\$ 0	\$ -
22.02	Meter Reading Expense-Benefits	c c 4.04	\$ 235	\$ 190	\$ 38	\$ 7	\$ 0	\$ -
22.03	Meter Reading Expense-Transportation	c c 4.04	\$ 10	\$ 8	\$ 2	\$ 0	\$ 0	\$ -
22.04	Total Meter Reading Expense	Sum	\$ 726	\$ 586	\$ 118	\$ 22	\$ 0	\$ -
<u>Customer Records</u>								
23.00	Customer Records & Collections Expense	c c 4.05	\$ 234,974	\$ 158,758	\$ 35,724	\$ 24,618	\$ 13,115	\$ 2,759
23.01	Customer Records & Collections Expense-Labor	c c 4.05	\$ 280,935	\$ 189,812	\$ 42,711	\$ 29,433	\$ 15,681	\$ 3,298
23.02	Customer Records & Collections Expense-Benefits	c c 4.05	\$ 160,868	\$ 108,689	\$ 24,457	\$ 16,854	\$ 8,979	\$ 1,889
23.03	Postage	c c 4.05	\$ 2,242	\$ 1,514	\$ 341	\$ 235	\$ 125	\$ 26
23.04	Customer Records Cash Over/Short	c c 4.05	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
23.05	Customer Records - Bank Service Fees	c c 4.05	\$ 11,415	\$ 7,713	\$ 1,736	\$ 1,196	\$ 637	\$ 134
23.06	Customer Records - Credit Card Fees	c c 4.05	\$ 88,910	\$ 60,071	\$ 13,517	\$ 9,315	\$ 4,963	\$ 1,044
23.07	Total Customer Records	Sum	\$ 779,343	\$ 526,558	\$ 118,486	\$ 81,650	\$ 43,500	\$ 9,150
<u>Maintenance Of General Plant</u>								
24.00	Maintenance Of General Plant	d d 3.06	\$ 49,167	\$ 15,003	\$ 6,136	\$ 16,203	\$ 10,961	\$ 864
24.01	Maintenance Of General Plant-Labor	d d 3.06	\$ 1,722	\$ 525	\$ 215	\$ 567	\$ 384	\$ 30
24.02	Maintenance Of General Plant-Benefits	d d 3.06	\$ 901	\$ 275	\$ 112	\$ 297	\$ 201	\$ 16
24.03	Maintenance Of General Plant-Transportation	d d 3.06	\$ 41	\$ 12	\$ 5	\$ 13	\$ 9	\$ 1
24.04	Total Maintenance Of General Plant	Sum	\$ 51,831	\$ 15,816	\$ 6,469	\$ 17,081	\$ 11,555	\$ 910
25.00	Update per Public Staff and Rounding	d d 3.06	\$ 171,918	\$ 52,459	\$ 21,456	\$ 56,656	\$ 38,327	\$ 3,020
26.00	Subtotal Electric Operating & Maintenance Expense		\$ 17,764,217	\$ 6,034,284	\$ 2,214,566	\$ 6,405,458	\$ 2,905,805	\$ 204,104
26.02	Subtotal Electric O&M Excluding Purchased Power		\$ 2,525,778	\$ 1,121,609	\$ 335,227	\$ 589,434	\$ 381,866	\$ 97,641
26.03	Electric O&M Excluding Purchased Power Allocator	w w	100.00%	44.41%	13.27%	23.34%	15.12%	3.87%

Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
Electric O&M Excluding Purchased Power			\$ 2,525,778	\$ 1,121,609	\$ 335,227	\$ 589,434	\$ 381,866	\$ 97,641
	Customer-Related	c	\$ 1,034,935	\$ 666,693	\$ 149,164	\$ 98,122	\$ 49,504	\$ 71,452
	Energy-Related	e	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Demand-Related	d	\$ 1,490,843	\$ 454,916	\$ 186,063	\$ 491,312	\$ 332,363	\$ 26,189
Electric O&M Excluding Purchased Power			\$ 2,525,778	\$ 1,121,609	\$ 335,227	\$ 589,434	\$ 381,866	\$ 97,641
	Customer-Related	c	\$ 1,034,935	\$ 666,693	\$ 149,164	\$ 98,122	\$ 49,504	\$ 71,452
	Distribution-Related	d	\$ 1,490,843	\$ 454,916	\$ 186,063	\$ 491,312	\$ 332,363	\$ 26,189
	Transmission-Related	t	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Production-Related	p	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

General & Administrative Expenses

<u>Administration - Other</u>										
27.00	Customer Assistance Expense	w w	26.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27.01	Informational Advertising Expense	w w	26.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
27.02	Administrative & General	w w	26.03	\$ 299,028	\$ 132,788	\$ 39,688	\$ 69,783	\$ 45,209	\$ 11,560	
27.03	Administrative & General-Salaries	w w	26.03	\$ 322,551	\$ 143,234	\$ 42,810	\$ 75,273	\$ 48,766	\$ 12,469	
27.04	Administrative & General-Benefits	w w	26.03	\$ 222,031	\$ 98,596	\$ 29,468	\$ 51,815	\$ 33,568	\$ 8,583	
27.05	Office Supplies And Expenses	w w	26.03	\$ 41,440	\$ 18,402	\$ 5,500	\$ 9,671	\$ 6,265	\$ 1,602	
27.06	Consulting Fees	w w	26.03	\$ 230,607	\$ 102,405	\$ 30,607	\$ 53,816	\$ 34,865	\$ 8,915	
27.07	Investment Management Expense	w w	26.03	\$ 14,592	\$ 6,480	\$ 1,937	\$ 3,405	\$ 2,206	\$ 564	
27.08	Property Insurance	w w	26.03	\$ 12,349	\$ 5,484	\$ 1,639	\$ 2,882	\$ 1,867	\$ 477	
27.09	Injuries & Damages Expense	w w	26.03	\$ 101,106	\$ 44,897	\$ 13,419	\$ 23,595	\$ 15,286	\$ 3,909	
27.10	Injuries & Damages Expense-Labor	w w	26.03	\$ 5,293	\$ 2,350	\$ 702	\$ 1,235	\$ 800	\$ 205	
27.11	Injuries & Damages Expense-Benefits	w w	26.03	\$ 4,756	\$ 2,112	\$ 631	\$ 1,110	\$ 719	\$ 184	
27.12	Injuries & Damages Expense-Transportation	w w	26.03	\$ 254	\$ 113	\$ 34	\$ 59	\$ 38	\$ 10	
27.13	Employee Pension & Benefits Expense	w w	26.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
27.14	Taxes-Employers FICA	w w	26.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
27.15	State Retirement-Employers	w w	26.03	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
27.16	Institutional Advertising Expense	w w	26.03	\$ 70,270	\$ 31,205	\$ 9,326	\$ 16,399	\$ 10,624	\$ 2,716	
27.17	Miscellaneous General Expense	w w	26.03	\$ 44,547	\$ 19,782	\$ 5,912	\$ 10,396	\$ 6,735	\$ 1,722	
27.18	PS Adjustment for O&M related to customer growth	e d	Calc	\$ 20,590	\$ 12,358	\$ 1,292	\$ 6,962	\$ -	\$ (23)	
27.19	Total Administrative-Other		Sum	\$ 1,389,414	\$ 620,204	\$ 182,966	\$ 326,401	\$ 206,949	\$ 52,893	
28.00	Total O&M		Sum	\$ 19,153,631	\$ 6,654,488	\$ 2,397,532	\$ 6,731,860	\$ 3,112,754	\$ 256,997	
27.01	Total O&M Allocator			100.00%	34.74%	12.52%	35.15%	16.25%	1.34%	
27.03	Total O&M Less Purchased Power		Sum	\$ 3,915,192	\$ 1,741,814	\$ 518,193	\$ 915,836	\$ 588,816	\$ 150,534	
27.04	Total O&M Less Purchased Power Allocator			100.00%	44.49%	13.24%	23.39%	15.04%	3.84%	

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Cost of Service Analysis
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Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
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Total O&M Excluding Purchased Power			\$ 3,915,192	\$ 1,741,814	\$ 518,193	\$ 915,836	\$ 588,816	\$ 150,534
Customer-Related	c		\$ 1,595,809	\$ 1,028,002	\$ 230,002	\$ 151,298	\$ 76,332	\$ 110,175
Energy-Related	e		\$ 20,590	\$ 12,358	\$ 1,292	\$ 6,962	\$ -	\$ (23)
Demand-Related	d		\$ 2,298,793	\$ 701,454	\$ 286,898	\$ 757,575	\$ 512,484	\$ 40,381

Total O&M Excluding Purchased Power			\$ 3,915,192	\$ 1,741,814	\$ 518,193	\$ 915,836	\$ 588,816	\$ 150,534
Customer-Related	c		\$ 1,595,809	\$ 1,028,002	\$ 230,002	\$ 151,298	\$ 76,332	\$ 110,175
Distribution-Related	d		\$ 2,319,383	\$ 713,812	\$ 288,191	\$ 764,537	\$ 512,484	\$ 40,359
Transmission-Related	t		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Production-Related	p		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Depreciation and Property Transaction Expense

29.00	Depreciation	d d	3.06	\$ 1,300,213	\$ 396,747	\$ 162,272	\$ 428,490	\$ 289,864	\$ 22,840
29.01	Amortization of Unrecovered Plant	d d	3.06	\$ 294,679	\$ 89,918	\$ 36,777	\$ 97,113	\$ 65,695	\$ 5,176
29.02	Gain/Loss Disposing Utility Property	d d	3.06	\$ 33,663	\$ 10,272	\$ 4,201	\$ 11,094	\$ 7,505	\$ 591
29.03	Sale Of Surplus Property	d d	3.06	\$ (15,526)	\$ (4,738)	\$ (1,938)	\$ (5,117)	\$ (3,461)	\$ (273)
29.04	Total Depreciation and Property Transaction Expense		Sum	\$ 1,613,030	\$ 492,200	\$ 201,312	\$ 531,580	\$ 359,603	\$ 28,335

Interest Expense

Interest Expense:									
30.00	Interest Expense Consumer Deposits	c c	REV1	\$ 13,066	\$ 4,754	\$ 1,617	\$ 4,038	\$ 2,498	\$ 159
30.01	Total Interest Expense		Sum	\$ 13,066	\$ 4,754	\$ 1,617	\$ 4,038	\$ 2,498	\$ 159

Total Expenses

31.00	Total Expenses			\$ 20,779,727	\$ 7,151,442	\$ 2,600,461	\$ 7,267,477	\$ 3,474,855	\$ 285,491
31.01	Total Expenses Less Purchased Power			\$ 5,541,288	\$ 2,238,768	\$ 721,122	\$ 1,451,454	\$ 950,916	\$ 179,028

Total Expenses				\$ 20,779,727	\$ 7,151,442	\$ 2,600,461	\$ 7,267,477	\$ 3,474,855	\$ 285,491
Customer-Related	c			\$ 1,608,875	\$ 1,032,756	\$ 231,619	\$ 155,337	\$ 78,830	\$ 110,334
Energy-Related	e			\$ 8,718,814	\$ 2,768,291	\$ 963,449	\$ 3,084,627	\$ 1,796,006	\$ 106,440
Demand-Related	d			\$ 10,452,038	\$ 3,350,395	\$ 1,405,393	\$ 4,027,514	\$ 1,600,019	\$ 68,716

Total Expenses Less Purchased Power				\$ 5,541,288	\$ 2,238,768	\$ 721,122	\$ 1,451,454	\$ 950,916	\$ 179,028
Customer-Related	c			\$ 1,608,875	\$ 1,032,756	\$ 231,619	\$ 155,337	\$ 78,830	\$ 110,334
Energy-Related	e			\$ 20,590	\$ 12,358	\$ 1,292	\$ 6,962	\$ -	\$ (23)

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Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
	Demand-Related	d	\$ 3,911,823	\$ 1,193,655	\$ 488,211	\$ 1,289,155	\$ 872,086	\$ 68,716
	Total Expenses		\$ 20,779,727	\$ 7,151,442	\$ 2,600,461	\$ 7,267,477	\$ 3,474,855	\$ 285,491
	Customer-Related	c	\$ 1,608,875	\$ 1,032,756	\$ 231,619	\$ 155,337	\$ 78,830	\$ 110,334
	Distribution-Related	d	\$ 3,932,413	\$ 1,206,012	\$ 489,503	\$ 1,296,117	\$ 872,086	\$ 68,694
	Transmission-Related	t	\$ 2,165,014	\$ 664,323	\$ 269,393	\$ 804,915	\$ 426,383	\$ -
	Production-Related	p	\$ 13,073,425	\$ 4,248,351	\$ 1,609,946	\$ 5,011,109	\$ 2,097,556	\$ 106,463
	Total Expenses Less Purchased Power		\$ 5,541,288	\$ 2,238,768	\$ 721,122	\$ 1,451,454	\$ 950,916	\$ 179,028
	Customer-Related	c	\$ 1,608,875	\$ 1,032,756	\$ 231,619	\$ 155,337	\$ 78,830	\$ 110,334
	Distribution-Related	d	\$ 3,932,413	\$ 1,206,012	\$ 489,503	\$ 1,296,117	\$ 872,086	\$ 68,694
	Transmission-Related	t	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Production-Related	p	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Net Income and Return on Rate Base

32.00	Net Income Before Taxes		Sum	\$ (1,790,601)	\$ (242,206)	\$ (250,765)	\$ (1,398,560)	\$ 155,363	\$ (54,434)
	Rate Base								
33.00	Plant In Service	d d	3.06	\$ 38,946,319	\$ 11,884,089	\$ 4,860,652	\$ 12,834,894	\$ 8,682,540	\$ 684,145
33.01	Less: Accumulated Depreciation	d d	3.06	\$ (17,468,664)	\$ (5,330,392)	\$ (2,180,157)	\$ (5,756,859)	\$ (3,894,395)	\$ (306,861)
33.02	Net Plant in Service		Sum	\$ 21,477,655	\$ 6,553,697	\$ 2,680,495	\$ 7,078,035	\$ 4,788,144	\$ 377,284
33.03	Construction Work in Progress	d d	3.06	\$ 627,742	\$ 191,549	\$ 78,345	\$ 206,875	\$ 139,946	\$ 11,027
33.04	Investments - Blue Ridge Electric Membership Corporation	d d	3.03	\$ 6,563,579	\$ 2,096,189	\$ 815,461	\$ 2,432,818	\$ 1,219,110	\$ -
33.05	Investments - North Carolina Electric Membership Corporation	d d	3.03	\$ 417,471	\$ 133,326	\$ 51,867	\$ 154,737	\$ 77,540	\$ -
33.06	Investments - Meridian Cooperative	d d	3.03	\$ 9,372	\$ 2,993	\$ 1,164	\$ 3,474	\$ 1,741	\$ -
33.07	Regulatory Asset (Payne Branch Dam)	d d	3.03	\$ 137,771	\$ 43,999	\$ 17,117	\$ 51,065	\$ 25,589	\$ -
33.08	Regulatory Asset (Unamortized Old Substation)	d d	3.06	\$ 91,351	\$ 27,875	\$ 11,401	\$ 30,105	\$ 20,365	\$ 1,605
33.09	Regulatory Asset (New Substation)	d d	3.06	\$ 150,989	\$ 46,073	\$ 18,844	\$ 49,759	\$ 33,661	\$ 2,652
33.10	Regulatory Asset (UBIT)	d d	3.06	\$ 243,098	\$ 74,179	\$ 30,340	\$ 80,114	\$ 54,195	\$ 4,270
33.11	Prepayments	d d	3.06	\$ 83,469	\$ 25,470	\$ 10,417	\$ 27,507	\$ 18,608	\$ 1,466
33.12	Customer Deposits	d d	3.06	\$ (235,508)	\$ (71,863)	\$ (29,392)	\$ (77,613)	\$ (52,503)	\$ (4,137)
33.13	Working Capital	d d	3.06	\$ 994,219	\$ 303,376	\$ 124,082	\$ 327,648	\$ 221,647	\$ 17,465
33.14	Update per Public Staff	d d	3.06	\$ 1,253,228	\$ 382,410	\$ 156,408	\$ 413,006	\$ 279,390	\$ 22,015
33.15	Total Rate Base		Sum	\$ 31,814,435	\$ 9,809,274	\$ 3,966,548	\$ 10,777,531	\$ 6,827,434	\$ 433,647
33.16	Current Return on Rate Base Before Taxes		Calc	-5.628%	-2.469%	-6.322%	-12.977%	2.276%	-12.553%

Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021

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Jul 06 2023

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
34.00	Proposed Return on Rate Base Grossed Up for Taxes	Pulled	6.165%	7.800%	7.120%	3.401%	7.800%	3.401%
34.01	Targeted Net Income	Calc	\$ 1,961,374	\$ 765,123	\$ 282,418	\$ 366,544	\$ 532,540	\$ 14,748
34.02	Revenue Requirement before Uncollectible Accounts Adder	Sum	\$ 22,714,167	\$ 7,906,645	\$ 2,879,506	\$ 7,625,594	\$ 4,002,182	\$ 300,239
34.03	Uncollectible Accounts	c c REV2	\$ 63,084	\$ 28,378	\$ 9,651	\$ 24,105	\$ -	\$ 950
34.04	Regulatory Commission Expense	c c REV1	\$ 31,844	\$ 11,586	\$ 3,940	\$ 9,842	\$ 6,088	\$ 388
34.05	Unrelated Business Income Tax	c c REV1	\$ 441,097	\$ 160,491	\$ 54,580	\$ 136,326	\$ 84,325	\$ 5,375
34.06	Total Revenue Requirement to Recover from Rates	Sum	\$ 23,250,192	\$ 8,107,101	\$ 2,947,677	\$ 7,795,868	\$ 4,092,594	\$ 306,953
34.07	Total Current Base Rate Revenues	Pulled	\$ 18,962,192	\$ 6,899,316	\$ 2,346,323	\$ 5,860,491	\$ 3,625,006	\$ 231,057
34.08	Total Revenue Increase(Decrease) Required	Sum	\$ 4,288,000	\$ 1,207,785	\$ 601,354	\$ 1,935,377	\$ 467,589	\$ 75,896
34.09	Total Percent Increase(Decrease) Required	Calc	22.61%	17.51%	25.63%	33.02%	12.90%	32.85%
34.10	PPA Rate Revenue Reduction	Pulled	\$ (2,080,926)	\$ (639,103)	\$ (233,511)	\$ (736,941)	\$ (444,922)	\$ (26,448)
34.11	Net Rate Revenue Increase	Sum	\$ 2,207,074	\$ 568,682	\$ 367,843	\$ 1,198,435	\$ 22,667	\$ 49,447
34.12	Net Rate Revenue Percent Increase	Calc	11.64%	8.24%	15.68%	20.45%	0.63%	21.40%
Total Revenue Requirement to Recover from Rates			\$ 23,250,192	\$ 8,107,101	\$ 2,947,677	\$ 7,795,868	\$ 4,092,594	\$ 306,953
	Customer-Related	c	\$ 2,117,967	\$ 1,223,291	\$ 296,416	\$ 317,183	\$ 164,030	\$ 117,047
	Energy-Related	e	\$ 8,718,814	\$ 2,768,291	\$ 963,449	\$ 3,084,627	\$ 1,796,006	\$ 106,440
	Demand-Related	d	\$ 12,413,411	\$ 4,115,519	\$ 1,687,811	\$ 4,394,058	\$ 2,132,558	\$ 83,465
Total Revenue Requirement to Recover from Rates			\$ 23,250,192	\$ 8,107,101	\$ 2,947,677	\$ 7,795,868	\$ 4,092,594	\$ 306,953
	Customer-Related	c	\$ 2,117,967	\$ 1,223,291	\$ 296,416	\$ 317,183	\$ 164,030	\$ 117,047
	Distribution-Related	d	\$ 5,893,786	\$ 1,971,136	\$ 771,921	\$ 1,662,661	\$ 1,404,626	\$ 83,442
	Transmission-Related	t	\$ 2,165,014	\$ 664,323	\$ 269,393	\$ 804,915	\$ 426,383	\$ -
	Production-Related	p	\$ 13,073,425	\$ 4,248,351	\$ 1,609,946	\$ 5,011,109	\$ 2,097,556	\$ 106,463
35.00	Cost of Service Summary:							
35.01	NRLP Customer Related		\$ 2,117,967	\$ 1,223,291	\$ 296,416	\$ 317,183	\$ 164,030	\$ 117,047
35.02	NRLP Distribution Related		\$ 6,192,117	\$ 2,147,220	\$ 791,469	\$ 1,765,533	\$ 1,404,626	\$ 83,269
35.03	BREMCO Transmission Related		\$ 1,478,845	\$ 465,397	\$ 183,655	\$ 548,339	\$ 281,454	\$ -
35.04	DEC Transmission Related		\$ 686,169	\$ 198,926	\$ 85,738	\$ 256,577	\$ 144,928	\$ -
35.05	CPP Production Demand Related		\$ 4,375,200	\$ 1,492,417	\$ 647,789	\$ 1,933,444	\$ 301,550	\$ -
35.06	CPP Production Energy Related		\$ 8,399,893	\$ 2,579,849	\$ 942,609	\$ 2,974,793	\$ 1,796,006	\$ 106,636
35.07	Total		\$ 23,250,192	\$ 8,107,101	\$ 2,947,677	\$ 7,795,868	\$ 4,092,594	\$ 306,953

Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Cost of Service Analysis
For Twelve Months Ended December 31, 2021

Line	Description	Allocation Factors	Total System	Residential	Commercial General	Commercial Demand	ASU Campus	Lighting (O&M Only)
36.00	Monthly Fixed Cost per Customer Summary:							
36.01	NRLP Customer and Distribution Related			\$ 38.26	\$ 61.26	\$ 633.24	\$ 130,721.33	
36.02	BREMCO Transmission Related			\$ 5.28	\$ 10.34	\$ 166.72	\$ 23,454.52	
36.03	DEC Transmission Related			\$ 2.26	\$ 4.83	\$ 78.01	\$ 12,077.36	
36.04	CPP Production Demand Related			\$ 16.94	\$ 36.48	\$ 587.85	\$ 25,129.13	
36.05	Total			\$ 62.75	\$ 112.91	\$ 1,465.82	\$ 191,382.34	

Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Current and Proposed Rate Design
For Twelve Months Ended December 31, 2021
Proposed Rates Based on Cost of Service

Line	Description	Billing Determinants	Current Rates	Current Rate Revenues	Proposed Rates	Proposed Revenue	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	\$ 0.045447	\$ 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	274	\$ 23.22	\$ 76,371	\$ 30.00	\$ 98,670	\$ 22,299	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	\$ 0.032604	\$ 6,852,064	\$ 1,176,125	20.72%
29	Total Commercial Demand Service			\$ 7,515,253		\$ 8,713,677	\$ 1,198,424	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	<i>Schedule OL Base Charge</i>							
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
Current and Proposed Rate Design
For Twelve Months Ended December 31, 2021
Proposed Rates Based on Cost of Service

Line	Description	Billing Determinants	Current Rates	Current Rate Revenues	Proposed Rates	Proposed Revenue	Increase (Decrease)	Percent Increase
71	Schedule #01 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 #01 HPS Cobra Head							
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 #01 HPS Cobra Head							
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%

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Proposed Rates Based on Cost of Service**

Line	Description	Billing Determinants	Current Rates	Current Rate Revenues	Proposed Rates	Proposed Revenue	Increase (Decrease)	Percent Increase
142	Schedule B Total Charge							
143	[Includes Base Charge and PPA Charge]							
144	High Pressure Sodium:							
145	150 Watt HPS Cobra Head		\$ 10.12	\$ 17,244	14.02	\$ 23,885	\$ 6,640	38.51%
146	250 Watt HPS Cobra Head		\$ 14.97	\$ 73,293	19.18	\$ 93,928	\$ 20,635	28.15%
147	250 Watt HPS Shoebox		\$ 14.97	\$ 1,257	21.48	\$ 1,804	\$ 547	43.47%
148	Mercury Vapor:							
149	175 Watt MV		\$ 10.69	\$ 25,143	13.15	\$ 30,938	\$ 5,795	23.05%
150	400 Watt MV TV		\$ 20.23	\$ 971	25.51	\$ 1,225	\$ 254	26.12%
151	Metal Halide:							
152	250 Watt MH Cobra Head		\$ 17.37	\$ 53,778	19.87	\$ 61,528	\$ 7,751	14.41%
153	250 Watt MH Decashield		\$ 17.37	\$ 625	19.59	\$ 705	\$ 80	12.76%
154	400 Watt MH Cobra Head		\$ 22.80	\$ 99,590	27.87	\$ 121,717	\$ 22,127	22.22%
155	400 Watt MH Flood TV		\$ 22.80	\$ -	28.20	\$ -	\$ -	0.00%
156	400 Watt MH Shoebox		\$ 22.80	\$ 1,368	30.10	\$ 1,806	\$ 438	32.03%
157	Energy Charge Only (Town of Boone Owned Lighting):							
158	Sodium Vapor:							
159	150 Watt Sodium Vapor TOB		\$ 5.61	\$ 5,318	7.00	\$ 6,638	\$ 1,319	24.81%
160	250 Watt Sodium Vapor TOB		\$ 9.35	\$ 24,235	11.67	\$ 30,238	\$ 6,003	24.77%
161	400 Watt Sodium Vapor TOB		\$ 14.94	\$ 29,223	18.67	\$ 36,514	\$ 7,291	24.95%
162	750 Watt Sodium Vapor TOB		\$ 28.03	\$ 336	35.00	\$ 420	\$ 84	24.86%
163	Mercury Vapor:							
164	175 Watt MV TOB		\$ 6.55	\$ 12,812	8.17	\$ 15,971	\$ 3,159	24.66%
165	400 Watt MV TV TOB		\$ 14.94	\$ 1,076	18.67	\$ 1,344	\$ 268	24.95%
166	Metal Halide:							
167	250 Watt Metal Halide - TOB		\$ 9.35	\$ 112	11.67	\$ 140	\$ 28	24.77%
168	400 Watt Metal Halide - TOB		\$ 14.94	\$ 179	18.67	\$ 224	\$ 45	24.95%
169	Schedule B Total Charge							
170	[Includes Base Charge and PPA Charge]							
171	50 Watt Yard Light (No Longer Available)		\$ 4.48	\$ 215	4.71	\$ 226	\$ 11	5.07%
172	96 Watt LED TV Bronze		\$ 7.63	\$ 366	10.42	\$ 500	\$ 134	36.53%
173	101 Watt LED Bronze Cobra Head		\$ 7.67	\$ 368	12.84	\$ 617	\$ 248	67.42%
174	110 Watt LED (No Longer Available)		\$ 7.75	\$ 651	8.25	\$ 693	\$ 42	6.40%
175	119 Area Light LED Shoebox (No Longer Available)		\$ 10.95	\$ 12,877	11.50	\$ 13,518	\$ 641	4.98%
176	160 Watt Cobra Head LED		\$ 12.38	\$ 1,783	12.36	\$ 1,781	\$ (2)	-0.12%
177	Energy Charge Only (Town of Boone Owned Lighting):							
178	20 Watt LED TOB		\$ 0.60	\$ 7	0.93	\$ 11	\$ 4	55.48%
179	27 Watt LED TOB		\$ 0.85	\$ 173	1.26	\$ 257	\$ 83	47.99%
180	40 Watt LED TOB		\$ 1.27	\$ 381	1.87	\$ 560	\$ 179	46.91%
181	50 Watt LED TOB		\$ 1.54	\$ 55	2.34	\$ 84	\$ 29	51.77%
182	TOB 80 Watt LED		\$ 2.47	\$ 978	3.73	\$ 1,478	\$ 500	51.07%
183	92 Watt LED TOB		\$ 2.89	\$ 590	4.30	\$ 877	\$ 287	48.69%
184	100 Watt LED TOB		\$ 3.14	\$ 3,052	4.66	\$ 4,534	\$ 1,482	48.55%
185	106 Watt LED TOB		\$ 3.31	\$ 2,145	4.95	\$ 3,206	\$ 1,061	49.46%
186	TOB 110 Watt LED		\$ 3.41	\$ 818	5.14	\$ 1,233	\$ 414	50.61%
187	120 Watt LED TOB		\$ 3.75	\$ 765	5.60	\$ 1,142	\$ 377	49.26%
188	TOB 136 Watt LED		\$ 4.25	\$ 102	6.34	\$ 152	\$ 50	49.21%
189	150 Watt LED TOB		\$ 4.68	\$ 9,716	7.00	\$ 14,535	\$ 4,820	49.61%
190	TOB 180 Watt LED		\$ 5.62	\$ 1,619	8.40	\$ 2,418	\$ 799	49.39%
191	Estimated kWh Usage	2,658,434						
192	Rate Charge							
193	Shakespeare Fiberglass Bronze Poles	11	\$ 6.81	\$ 899	11.87	\$ 1,567	\$ 669	74.37%
194	30' Wood Pole	8	\$ 3.40	\$ 326	3.97	\$ 381	\$ 55	16.71%
195	Total Lighting			\$ 384,449		\$ 478,794	\$ 94,345	24.54%
196								
197	Total System:							
198								
199	Total Customers (Excluding Lighting)			9,095				
200	Total kWh Usage			209,408,694				
201	Total Base Revenues			\$ 19,056,196		\$ 23,389,132	\$ 4,332,937	22.74%
202	Total PPA Revenues			\$ 4,672,608		\$ 2,591,682	\$ (2,080,926)	-44.53%
203	Total Revenues			\$ 23,728,803		\$ 25,980,814	\$ 2,252,011	9.49%
204	Facilities Charge			\$ 2,476,455		\$ 3,255,369	\$ 778,914	31.45%
205	Demand Charge			\$ 2,571,799		\$ 1,211,411	\$ (1,360,388)	-52.90%
206	Energy Charge			\$ 18,296,101		\$ 19,756,200	\$ 1,460,099	7.98%
207	Lighting Charges:							
208	O&M Related			\$ 231,057		\$ 306,968	\$ 75,911	32.85%
209	Investment Related			\$ 94,003		\$ 138,886	\$ 44,883	47.75%
210	Total Lighting Charges			\$ 325,060		\$ 445,854	\$ 120,794	37.16%

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Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Renewable Solar Energy Net Billing Rider
Developed for Schedule NBR - Residential Service

Line	Description	Actual Billing Data	CP Peaks as % of Max Output
1	Production from Customer Solar Generation [1]:		
2	Energy Produced (kWh)	50,414.790	n/a
3	Output at BREMCO CP Demand (kW)	11.790	29.12%
4	Output at DEC CP Demand (kW)	11.790	29.12%
5	Output at CPP CP Demand (kW)	10.540	26.03%
6	Max Output (kW)	40.485	100.00%

Description	From Exhibit REH-16: Rate Design		
	Proposed Residential Rates [2]	Unadjusted Residential Billing Determinants	Unadjusted Proposed Residential Rate Revenues

Calculation of Charge to Collect Costs NOT Avoided from Customer Solar Generation						
Solar Generation Output	Adjusted Residential Billing Determinants	Adjusted Proposed Residential Rate Revenues	Unrecovered Costs	Name Plate Solar Generation Capacity	Percent of Unrecovered Costs to Collect	Monthly Charge per Name Plate Capacity

7	Proposed Residential Rate:										
8	Basic Facilities Charge	\$ 14.50	7,340	\$ 1,277,218		7,340	\$ 1,277,218	\$ -	40.485	100.00%	\$ -
9	Energy Charge:										
10	NRLP Distribution Related	\$ 0.032548	64,315,439	\$ 2,093,339	50,415	64,265,024	\$ 2,091,698	\$ (1,641)	40.485	100.00%	\$ 3.38
11	Wholesale Power Supply Charge:										
12	BREMCO Distribution Related	\$ 0.007236	64,315,439	\$ 465,387	50,415	64,265,024	\$ 465,022	\$ (365)	40.485	70.88%	\$ 0.53
13	DEC Transmission Related	\$ 0.003093	64,315,439	\$ 198,928	50,415	64,265,024	\$ 198,772	\$ (156)	40.485	70.88%	\$ 0.23
14	CPP Production Demand Related	\$ 0.023205	64,315,439	\$ 1,492,440	50,415	64,265,024	\$ 1,491,270	\$ (1,170)	40.485	73.97%	\$ 1.78
15	CPP Production Energy Related	\$ 0.040112	64,315,439	\$ 2,579,821							\$ -
16	Total Wholesale Power Supply	\$ 0.073646		\$ 4,736,575							\$ 2.54
17	PPAC Energy	\$ 0.012376	64,315,439	\$ 795,968							\$ -
18	Total Residential Service			\$ 8,903,100							Monthly kW Charge for Customer's Installed Name Plate Capacity \$ 5.92

Notes:

[1] As taken from hourly load profiles from all solar output for 12 months ended December 31, 2021.

[2] Proposed Residential Rates Based on Cost of Service.

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Renewable Solar Energy Net Billing Rider
Developed for Schedule NBR - Commercial General Service**

Line	Description	Actual Billing Data	CP Peaks as % of Max Output
1	Production from Customer Solar Generation [1]:		
2	Energy Produced (kWh)	50,414.790	n/a
3	Output at BREMCO CP Demand (kW)	11.790	29.12%
4	Output at DEC CP Demand (kW)	11.790	29.12%
5	Output at CPP CP Demand (kW)	10.540	26.03%
6	Max Output (kW)	40.485	100.00%

Description	From Exhibit REH-16: Rate Design			Calculation of Charge to Collect Costs <i>NOT</i> Avoided from Customer Solar Generation						
	Proposed General Service Rates [2]	Unadjusted General Service Billing Determinants	Unadjusted Proposed General Service Revenues	Solar Generation Output	Adjusted General Service Billing Determinants	Adjusted Proposed General Service Revenues	Unrecovered Costs	Name Plate Solar Generation Capacity	Percent of Unrecovered Costs to Collect	Monthly Charge per Name Plate Capacity
7 Proposed Commercial General Service Rate:										
8 Basic Facilities Charge	\$ 17.50	1,480	\$ 310,765		1,480	\$ 310,765	\$ -	40.485	100.00%	\$ -
9 Energy Charge:										
10 NRPL Distribution Related	\$ 0.033071	23,499,170	\$ 777,141	50,415	23,448,755	\$ 775,474	\$ (1,667)	40.485	100.00%	\$ 3.43
11 Wholesale Power Supply Charge:										
12 BREMCO Distribution Related	\$ 0.007815	23,499,170	\$ 183,646	50,415	23,448,755	\$ 183,252	\$ (394)	40.485	70.88%	\$ 0.57
13 DEC Transmission Related	\$ 0.003649	23,499,170	\$ 85,748	50,415	23,448,755	\$ 85,565	\$ (184)	40.485	70.88%	\$ 0.27
14 CPP Production Demand Related	\$ 0.027566	23,499,170	\$ 647,778	50,415	23,448,755	\$ 646,388	\$ (1,390)	40.485	73.97%	\$ 2.12
15 CPP Production Energy Related	\$ 0.040112	23,499,170	\$ 942,599							\$ -
16 Total Wholesale Power Supply	\$ 0.079142		\$ 1,859,771							\$ 2.96
17 PPAC Energy	\$ 0.012376	23,499,170	\$ 290,826							\$ -
18 Total Commercial General Service			\$ 3,238,503							Monthly kW Charge for Customer's Installed Name Plate Capacity \$ 6.39

Notes:

[1] As taken from hourly load profiles from all solar output for 12 months ended December 31, 2021.

[2] Proposed Commercial General Service Rates Based on Cost of Service.

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Renewable Solar Energy Net Billing Rider
Developed for Schedule NBR - Commercial Demand Service**

Line	Description	Actual Billing Data	CP Peaks as % of Max Output
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1	Production from Customer Solar Generation [1]:		
2	Energy Produced (kWh)	50,414.790	n/a
3	Output at BREMCO CP Demand (kW)	11.790	29.12%
4	Output at DEC CP Demand (kW)	11.790	29.12%
5	Output at CPP CP Demand (kW)	10.540	26.03%
6	Max Output (kW)	40.485	100.00%

Description	From Exhibit REH-16: Rate Design		
	Proposed Demand Service Rates [2]	Unadjusted Demand Service Billing Determinants	Unadjusted Proposed Demand Service Revenues

Calculation of Charge to Collect Costs <i>NOT</i> Avoided from Customer Solar Generation						
Solar Generation Output	Adjusted Demand Service Billing Determinants	Adjusted Proposed Demand Service Revenues	Unrecovered Costs	Name Plate Solar Generation Capacity	Percent of Unrecovered Costs to Collect	Monthly Charge per Name Plate Capacity

7	Proposed Commercial Demand Service Rate:										
8	Basic Facilities Charge	\$ 30.00	274	\$ 98,670		274	\$ 98,670	\$ -	40.485	100.00%	\$ -
9	Demand Charge:										
10	NRLP Distribution Charge	\$ 2.27	213,173.36	\$ 483,904	11.790	213,161.57	\$ 483,877	\$ (27)	40.485	100.00%	\$ 0.06
11	Wholesale Power Supply Charge	\$ 6.00	213,173.36	\$ 1,279,040	10.540	213,162.82	\$ 1,278,977	\$ (63)	40.485	73.97%	\$ 0.10
12	Energy Charge:										
13	NRLP Distribution Related	\$ 0.020228	74,161,349	\$ 1,500,136	50,415	74,110,934	\$ 1,499,116	\$ (1,020)	40.485	100.00%	\$ 2.10
14	Wholesale Power Supply Charge:										
15	BREMCO Distribution Related	\$ 0.003940	74,161,349	\$ 292,219	50,415	74,110,934	\$ 292,020	\$ (199)	40.485	70.88%	\$ 0.29
16	DEC Transmission Related	\$ 0.001844	74,161,349	\$ 136,734	50,415	74,110,934	\$ 136,641	\$ (93)	40.485	70.88%	\$ 0.14
17	CPP Production Demand Related	\$ 0.013894	74,161,349	\$ 1,030,361	50,415	74,110,934	\$ 1,029,661	\$ (700)	40.485	73.97%	\$ 1.07
18	CPP Production Energy Related	\$ 0.040112	74,161,349	\$ 2,974,793							\$ -
19	Total Wholesale Power Supply	\$ 0.059790		\$ 4,434,107							\$ 1.49
20	PPAC Energy	\$ 0.012376	74,161,349	\$ 917,821							\$ -
21	Total Commercial General Service			\$ 8,713,677							\$ 3.59
											Monthly kW Charge for Customer's Installed Name Plate Capacity \$ 3.59

Notes:
[1] As taken from hourly load profiles from all solar output for 12 months ended December 31, 2021.
[2] Proposed Commercial Demand Service Rates Based on Cost of Service.

**Docket No. E-34, Sub 54
Appalachian State University
d/b/a New River Light and Power Company
Avoided Cost for Buy All / Sell All of Renewable Solar Energy
Developed for Schedule PPR**

Line	Description	Actual Billing Data	CP Peaks as % of Max Output
1	Production from Customer Solar Generation [1]:		
2	Energy Produced (kWh)	50,414.790	n/a
3	Output at BREMCO CP Demand (kW)	11.790	29.12%
4	Output at DEC CP Demand (kW)	11.790	29.12%
5	Output at CPP CP Demand (kW)	10.540	26.03%
6	Max Output (kW)	40.485	100.00%

Description	Wholesale Power Supply Costs	Retail Energy Purchases	Wholesale Power Supply Costs per Retail kWh	Percent of Wholesale Power Supply Costs Avoided	Avoided Cost (\$/kWh)
7 Wholesale Power Supply Cost in Base Rates [2]:					
8 BREMCO Distribution Related	\$ 1,478,845	209,408,694	\$ 0.007062	29.12%	\$ 0.002057
9 DEC Transmission Related	\$ 686,169	209,408,694	\$ 0.003277	29.12%	\$ 0.000954
10 CPP Production Demand Related	\$ 4,375,200	209,408,694	\$ 0.020893	26.03%	\$ 0.005439
11 CPP Production Energy Related	\$ 8,399,893	209,408,694	\$ 0.040112	100.00%	\$ 0.040112
12 Total Wholesale Power Supply in Base Rates	\$ 14,940,108		\$ 0.071344		\$ 0.048562
13 PPAC Energy [3]	\$ 2,591,682	209,408,694	\$ 0.012376	100.00%	\$ 0.012376
14 Total Wholesale Power Supply Costs	\$ 17,531,790		\$ 0.083720		
15 Total Avoided Cost as \$/kWh					\$ 0.060938

Notes:

[1] As taken from hourly load profiles from all solar output for 12 months ended December 31, 2021.

[2] As taken from Exhibit_(REH-14) - Cost of Service Analysis for total system costs.

[3] As taken from Exhibit_(REH-16) - Rate Design Analysis under proposed rates.