

DEC Updated Exhibit 1

**Clean and Redlined Copies of DEP's
Proposed Purchased Power Schedule PP**

Docket No. E-100, Sub 194

SCHEDULE PP (NC)
PURCHASED POWER

AVAILABILITY (North Carolina only)

Upon Seller's completion and Company's acceptance of a Purchase Power Agreement, this Schedule is available for electrical energy and capacity supplied by Eligible Qualifying Facilities (as defined below) to Company, provided Seller is a Qualifying Facility as defined by the Federal Energy Regulatory Commission's (FERC) Order No. 70 under Docket No. RM79-54 and 18 C.F.R. §§ 292.203, 292.204, and 292.205. This Schedule is not available for electric service supplied by Company to Seller or to Seller who has negotiated rate credits or conditions with Company which are different from those below. This Schedule is not available to a Qualifying Facility owned by a Seller or affiliate or partner of a Seller, who sells power to the Company from another Qualifying Facility of the same energy resource located within one-half mile, as measured from the electrical generating equipment, unless the combined capacity is equal to or less than one (1) megawatt.¹

Service necessary for the delivery of power from the Seller's generating facilities into Company's system shall be furnished solely to the individual contracting Seller in a single enterprise, located entirely on a single, contiguous premise. Service hereunder shall be restricted to Company's purchase of energy or energy and capacity from the Seller's generating facilities up to the Contract Capacity specified in the Purchase Power Agreement which may be operated in parallel with Company's system. Power delivered to Company under this Schedule shall not offset or be substituted for power contracted for or which may be contracted for under any other schedule of Company. If Seller requires supplemental, back-up, or standby services, Seller shall enter into a separate service agreement with Company in accordance with Company's applicable electric rates, riders, and Service Regulations on file with and authorized by the state regulatory agency having jurisdiction.

All Eligible Qualifying Facilities have the option to sell energy to the Company on an "as available" basis and receive energy credits only calculated for the delivered energy at hourly rates reflecting the marginal cost of producing energy ("As-Available Rates"). The Fixed Long Term Rates on this schedule are available only to Sellers with Eligible Qualifying Facilities that establish a Legally Enforceable Obligation on or before the filing date of proposed rates in the next biennial avoided cost proceeding, as further addressed in the RATE UPDATES section of this Schedule, provided the eligible Seller begins delivery of power no later than thirty (30) months from the date of the order approving avoided cost rates in Docket No. E-100, Sub 194, but may be extended beyond 30 months if construction is nearly complete and the Seller demonstrates that it is making a good faith effort to complete its project in a timely manner. Notwithstanding the foregoing, eligible Sellers establishing a Legally Enforceable Obligation on or before November 15, 2016, and seeking payment under rates approved in Docket No. E-100, Sub 140, shall continue to be eligible for such rates, even if they failed to commence delivering power to the utility on or before September 10, 2018, pursuant to Section 1.(c) of Session Law 2017-192, unless the Seller's nameplate capacity along with the combined nameplate capacity of generation facilities connected or with priority rights under the North Carolina Interconnection Procedures to be connected ahead of Seller to the same general distribution substation transformer exceeds the nameplate capacity of the transformer. If extended, as provided for in Session Law 2017-192, the contract term available to eligible E-100, Sub 140 Sellers shall commence on September 10, 2018 and expire no later than 15 years from that date.

An Eligible Qualifying Facility shall also have the option to sell power to the Company at Two-Year Fixed Rates over the terms of their Purchase Power Agreement with the Company. Eligible Qualifying Facilities committing to sell and deliver power at Two-Year Fixed Rates under a Purchase Power Agreement executed on or after November 1, 2023, are required to commit to at least a two year term, and such Two-Year Fixed Rates would be subject to change as of the date of the initial filing in the next avoided cost proceeding and each avoided cost proceeding thereafter.

Eligible Qualifying Facilities not qualifying for the Fixed Long-Term Rates remain eligible for the Fixed Long Term Rates proposed in the next biennial avoided cost proceeding, which will be subject to adjustment if different rates are approved by the North Carolina Utilities Commission in that proceeding.

¹ Once Purchase Power Agreements are executed with Sellers having a Legally Enforceable Obligation after November 16, 2016 for an aggregate generation capacity of 100 megawatts (MWs), Monthly Rates will only be available thereafter to Sellers establishing a Legally Enforceable Obligation after November 16, 2016 with a Contract Capacity of 100 kW or less.

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QUALIFYING FACILITIES ELIGIBLE FOR CAPACITY AND/OR ENERGY CREDITS

In order to be an Eligible Qualifying Facility and receive Energy Credits under this Schedule, the Qualifying Facility must be a hydroelectric or a generator fueled by trash or methane derived from landfills, solar, wind, hog or poultry waste-fueled or non-animal biomass-fueled Qualifying Facility with a Contract Capacity of one (1) megawatt or less, based on the nameplate rating of the generator(s), which are interconnected directly with the Company’s system and which are Qualifying Facilities as defined by the Federal Energy Regulatory Commission pursuant to Section 210 of the Public Utility Regulatory Policies Act of 1978.

Capacity Credits are limited to Eligible Qualifying Facilities located within Company’s service area that are classified as New Capacity in accordance with FERC Order No. 69 under Docket No. RM79-55 and interconnected to Company’s transmission or distribution facilities in accordance with the North Carolina Utilities Commission’s Order dated September 21, 1981 in Docket No. E-100, Sub 41. Pursuant to N.C.G.S. § 62-156(b)(3), certain Sellers eligible for this tariff may be eligible for a different avoided capacity credit and rate: (i) certain hydroelectric small power producers with a Contract Capacity of up to one (1) MW and a purchase power agreement in effect as of July 27, 2017, which commit to sell and deliver energy and capacity for a fixed contract term prior to terminating the existing purchase power agreement, as set forth in N.C.G.S. § 62-156(b)(3); or (ii) swine waste and poultry waste fueled small power producers if Seller sells the output of its facility, including renewable energy credits, to Company for Company to comply with its Renewable Energy and Energy Efficiency Portfolio Standard (“REPS”) requirements set forth in N.C.G.S. § 62-133.8(e) and (f).

Eligible Qualifying Facilities receiving Capacity Credits under this Schedule shall also receive corresponding Energy Credits of like term, as set forth in the “Rate” section of this Schedule.

TYPE OF SERVICE

Company will furnish 60 Hertz service through one metering point, at one delivery point, at one of the following approximate voltages, where available, upon mutual agreement:

- Single-phase, 120/240; 120/208, 240/480 or other available single-phase voltages at the Company’s option, or
- 3-phase, 208Y/120, 460Y/265, 480Y/277 volts, or
- 3-phase, 3-wire, 240, 480, 575 or 2300 volts, or
- 3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts, or
- 3-phase voltages other than those listed above may be available at the Company’s option if the size of the Seller’s contract warrants a substation solely to serve that Seller, and if the Seller furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company’s specifications.

The type of service under this Schedule shall be determined by the Company. Prospective customers shall ascertain the available voltage by written inquiry of the Company before purchasing equipment.

RATE

The Company shall pay Eligible Qualifying Facilities for energy and/or capacity furnished to Company at the Credits set forth below, as applicable, or at the Company’s as available rates, which are As-Available Rates that vary hourly. Payments shall be reduced by both the Administrative Charge and any applicable Interconnection Facilities Charge.

Energy and Capacity Credits

Eligible Qualifying Facilities for Company’s Fixed Long-Term and/or Two-Year Fixed Energy and Capacity Credits shall be paid based upon the Seller’s interconnection with Company’s distribution or transmission system for all energy delivered to Company’s system as registered or computed from Company’s metering facilities. The Energy and Capacity Credit will be in accordance with the length of rate term for energy sales so established in the Purchase Power Agreement. The Capacity Credit is determined based upon the Seller’s generation resource.

An Eligible Qualifying Facility compensated pursuant to as-available rates shall be paid based upon the Eligible Qualifying Facility’s interconnection with Company’s distribution or transmission system for all energy delivered to Company’s system as

Duke Energy Carolinas, LLC

Electricity No. 4
North Carolina Fourteenth (Proposed) Revised Leaf No. 90
Superseding North Carolina Thirteenth Revised Leaf No. 90

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registered or computed from Company's metering facilities. The Eligible Qualifying Facility may also be required to provide a scheduling notification to the Company for as-available energy delivered. The Energy Credits for such Facilities are based on the As-Available Rates. No Capacity Credit is provided to Eligible Qualifying Facilities on as-available rates.

Administrative Charge: \$19.91 per month for Eligible Qualifying Facilities with capacity greater than 15 kilowatts (AC).

\$3.00 per month for Eligible Qualifying Facilities with capacity of 15 kilowatts (AC) or less.

Interconnection Facilities Charge:

The Interconnection Charge for each Seller is set forth in the Agreement as outlined in the Terms and Conditions; however, the \$25.00 minimum will not apply if the charge is for a meter only.

<u>Interconnected to Distribution</u>		<u>Interconnected to Transmission</u>	
<u>Two-Year</u>	<u>Fixed Long-Term</u>	<u>Two Year</u>	<u>Fixed Long-Term</u>
<u>Fixed Rate</u>	<u>Rate (10 years)</u>	<u>Fixed Rate</u>	<u>Rate (10 years)</u>

Energy Credits (¢/kWh)²:

Credits Applicable to All but Uncontrolled Solar Generation³

On-peak kWh:

a. Summer	4.38	4.79	4.23	4.63
b. Winter				
1. Morning Hours	4.68	5.71	4.55	5.55
2. Evening Hours	4.89	6.28	4.76	6.11
c. Premium Peak				
1. Summer	5.21	5.80	5.02	5.58
2. Winter	6.17	7.42	5.97	7.18
d. Shoulder	4.02	4.52	3.94	4.43

Off-peak kWh:

a. Summer	3.68	4.00	3.60	3.91
b. Winter	4.06	4.92	3.97	4.82
c. Shoulder	3.27	3.60	3.22	3.55

Credits Applicable to Uncontrolled Solar Generation⁴ Only

On-peak kWh:

a. Summer	4.27	4.68	4.12	4.52
b. Winter				
1. Morning Hours	4.57	5.60	4.44	5.44
2. Evening Hours	4.78	6.17	4.65	6.00
c. Premium Peak				
1. Summer	5.10	5.69	4.91	5.47
2. Winter	6.06	7.31	5.86	7.07
d. Shoulder	3.91	4.41	3.83	4.32

Off-peak kWh:

a. Summer	3.57	3.89	3.49	3.80
b. Winter	3.95	4.81	3.86	4.71
c. Shoulder	3.16	3.49	3.11	3.44

North Carolina Fourteenth(Proposed) Revised Leaf No. 90
Effective for energy and capacity rendered on and after November 1, 2023
NCUC Docket No. E-100, Sub 194, Order dated _____

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Capacity Credits (¢/kWh)⁵:

Credits Applicable to All but: (i) Swine or Poultry Waste Generation for which a Need is Established Pursuant to N.C.G.S. § 62-133.8(e) and (f); and (ii) Certain Hydroelectric Generation under N.C.G.S. 62-156(b)(3)⁶

On-peak kWh:

Winter	10.33	19.05	10.03	18.50
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Credits Applicable to Swine or Poultry Waste Generation for Which a Need is Established Pursuant to N.C.G.S. § 62-133.8(e) and (f) and to Certain Hydroelectric Generation under N.C.G.S. 62-156(b)(3)⁶

On-peak kWh:

Winter	21.28	21.85	20.67	21.23
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² For Energy Credit purposes, Summer months are defined as calendar months June through September, Winter months are defined as calendar months December through February, and Shoulder months are defined as March through May and October through November. Summer on-peak hours shall be Monday through Friday from 12:00 p.m. noon to 5:00 p.m. and 9:00 p.m. to 11:00 p.m. Winter on-peak hours shall be Monday through Friday with morning hours from 5:00 a.m. to 6:00 a.m. and 9:00 a.m. to 10:00 a.m., plus evening hours from 5:00 p.m. to 11:00 p.m. Shoulder on-peak hours shall be Monday through Friday with morning hours from 6:00 a.m. to 10:00 a.m. plus evening hours from 4:00 p.m. to 11:00 p.m. Summer premium peak hours shall be Monday through Friday from 5:00 p.m. to 9:00 p.m. Winter premium peak hours shall be Monday through Friday from 6:00 a.m. to 9:00 a.m. There are no premium peak hours for Shoulder months. All other hours, plus the following holidays, shall be off-peak: New Year’s Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after, and Christmas Day. When a holiday falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

³ Includes “controlled solar generation” defined as solar generation where the Qualifying Facility demonstrates that its facility is capable of operating, and contractually agrees to operate, in a manner that reduces its average daylight volatility to 6% or less of its average daylight power output. Controlled solar generation must be served under a negotiated Purchase Power Agreement that describes provisions for operating the technology used to reduce average daylight volatility.

⁴ “Uncontrolled Solar Generation” is defined as solar generation where the Qualifying Facility does not demonstrate that its facility is capable of operating, or does not contractually agree to operate, in a manner that reduces its average daylight volatility to 6% or less of its average daylight power output. Eligible Qualifying Facilities with controlled solar generation shall be governed under a negotiated Purchase Power Agreement between Seller and Company, which shall be based on Company’s standard Purchase Power Agreement and Terms and Conditions for the Purchase of Electric Power with additional terms added to address requirements for operating the technology used to reduce average daylight volatility.

⁵ Capacity Credit shall only be applicable to Winter months defined as calendar months of December through February. The on-peak hours shall be all Winter days from 5:00 a.m. to 10:00 a.m. Capacity credits are not applicable in all other months.

⁶ For hydroelectric generation where the Qualifying Facility renews a Purchased Power Agreement that was in effect as of July 27, 2017, under N.C.G.S. § 62-156(b)(3).

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AS-AVAILABLE RATESThe As-Available Rates² vary by hour, are denominated in cents/kWh, and are calculated by the Company for each hour of a calendar month at the end of such month. The As-Available Rates will reflect the joint dispatch of system resources by the Company and Duke Energy Progress, LLC. Such dispatch is based on the following factors, among others:

- incremental variable production cost, including fuel, variable operating and maintenance expenses, emission allowances, and reagents;
- replacement cost of supply resources, including power plants; and
- start-up costs.

Based on the dispatch outcomes that occurred during a calendar month, the As-Available Rates will be calculated for each hour in that month using the incremental cost of production of the next megawatt-hour. The calculations are processed using the PCI Post-Analysis module, a commercially available production cost model used to analyze and assign generation and purchased power costs to load. The As-Available Rates for Uncontrolled Solar Generation will incorporate the same reduction, in cents/kWh, that applies to Uncontrolled Solar Generation receiving the Fixed Long-Term Rates or the Two-Year Fixed Rates.

Eligible Qualifying Facilities compensated through As-Available Rates may request and obtain hourly marginal prices applicable to the Eligible Qualifying Facility’s periods of delivery upon execution of and ongoing compliance with a non-disclosure agreement with the Company.

RENEWABLE ENERGY CREDITS

Unless otherwise specified in the Company’s agreements with the Seller, the sale of power under this schedule does not convey to the Company the right to renewable energy credits (RECs) or green tags associated with the energy delivered.

INTERCONNECTION FACILITIES CHARGE

For Eligible Qualifying Facilities, the installed costs for all facilities constructed or installed by Company to interconnect and safely operate in parallel with Seller's equipment shall be determined in accordance with Company's Terms and Conditions for the Purchase of Electric Power. Interconnection of Seller’s generation to Company’s system shall be in accordance with the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generation Interconnections.

POWER FACTOR CORRECTION

Unless the Seller is required by an Operating Agreement to adjust VAR production to support voltage control, when the Seller consumes VARs supplied by the Company or the Seller delivers VARs to Company, the Company may reduce the purchased energy measured in kilowatt-hours for that month by multiplying by the Average Consumed Power Factor. The Average Consumed Power Factor shall be calculated on a monthly basis as the average kWh divided the average kVAh, where average kVAh shall be the square root of the sum of the average kWh squared plus the average consumed and delivered kVARh squared. Company reserves the right to install facilities necessary for the measurement of power factor and to adjust the Interconnection Facilities Charge accordingly, solely at the option of Company. If a Seller without an Operating Agreement is requested by the Company to operate pursuant to a voltage schedule by providing or absorbing VARS, the Seller shall be compensated in the same manner as sellers with Operating Agreements.

CONTRACT CAPACITY

The Contract Capacity shall be as specified in the Purchase Power Agreement between Company and Seller. Only one such Standard Contract shall be permitted for any Qualifying Facility.

² QFs that receive the Variable Rate pursuant to prior approved versions of the Schedule PP will be subject to the As-Available Rate.

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RATE UPDATES

The Two-Year Fixed Rates, Fixed Long-Term Rates, Credits and Administrative Charge under this Schedule will be updated by the Company in November 1, 2025, or as otherwise directed by the North Carolina Utilities Commission, and every two years thereafter. Sellers who have contracted for the Fixed Long-Term Energy and Capacity Credits will not be affected by updates in the Energy and Capacity Credits until their rate term expires. For all Qualifying Facilities selling to Company pursuant to the Two-Year Fixed Capacity Rate provisions of this schedule, such capacity credits shall be updated and changed in accordance with the Commission’s revisions to such credits in the Company’s biennial avoided cost proceedings.

The sale, delivery, and use of electric power hereunder, and all services of whatever type to be rendered or performed in connection therewith, shall in all respects be subject to and in accordance with the Two-Year Fixed, Fixed Long-Term, or As-Available Rates selected by Seller and set forth in Company’s Schedule PP and the Terms and Conditions for the Purchase of Electric Power. Said Rate Schedule and Terms and Conditions for the Purchase of Electric Power are subject to change, revision, alteration or substitution, either in whole or in part, upon order of the Commission or any other regulatory authority having jurisdiction, and any such change, revision, alteration or substitution shall immediately be made a part of the Agreement as though fully written herein, and shall nullify any prior provision in conflict therewith. Any change to the Rate Schedule or Terms and Conditions shall not apply to the Fixed Long-Term Rates themselves, but it shall apply to all other provisions of the Rate Schedule and Terms and Conditions for the Purchase of Electric Power, including but not limited to Two-Year Fixed Rates, As-Available Rates, other types of charges, and all non-rate provisions. For Purchase Power Agreements executed pursuant to the Fixed Long Term rates approved in Docket No. E-100, Sub 167 or its predecessors, any change to the schedule shall not apply to the Fixed Long Term Energy and Capacity Rates during the Contract Period.

PAYMENTS

Credit billings to the Seller shall be payable to the Seller within fifteen (15) days of the date of the bill.

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month’s bill and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each Seller shall enter into a Purchase Power Agreement which shall specify the Contract Capacity committed for delivery throughout the term of the contract and shall specify the initial term and associated rate.

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Service necessary for the delivery of power from the Seller's generating facilities into Company's system shall be furnished solely to the individual contracting Seller in a single enterprise, located entirely on a single, contiguous premise. Service hereunder shall be restricted to Company's purchase of energy or energy and capacity from the Seller's generating facilities up to the Contract Capacity specified in the Purchase Power Agreement which may be operated in parallel with Company's system. Power delivered to Company under this Schedule shall not offset or be substituted for power contracted for or which may be contracted for under any other schedule of Company. If Seller requires supplemental, back-up, or standby services, Seller shall enter into a separate service agreement with Company in accordance with Company's applicable electric rates, riders, and Service Regulations on file with and authorized by the state regulatory agency having jurisdiction.

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An Eligible Qualifying Facility shall also have the option to sell power to the Company at Two-Year Fixed Rates over the terms of their Purchase Power Agreement with the Company. Eligible Qualifying Facilities committing to sell and deliver power at Two-Year Fixed Rates under a Purchase Power Agreement executed on or after November 1, 2023, are required to commit to at least a two year term, and such Two-Year Fixed Rates would be subject to change as of the date of the initial filing in the next avoided cost proceeding and each avoided cost proceeding thereafter.

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¹ Once Purchase Power Agreements are executed with Sellers having a Legally Enforceable Obligation after November 16, 2016 for an aggregate generation capacity of 100 megawatts (MWs), Monthly Rates will only be available thereafter to Sellers establishing a Legally Enforceable Obligation after November 16, 2016 with a Contract Capacity of 100 kW or less.

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3-phase voltages other than those listed above may be available at the Company's option if the size of the Seller's contract warrants a substation solely to serve that Seller, and if the Seller furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

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Administrative Charge: \$19.91 per month for Eligible Qualifying Facilities with capacity greater than 15 kilowatts (AC).

\$3.00 per month for Eligible Qualifying Facilities with capacity of 15 kilowatts (AC) or less.

Interconnection Facilities Charge:

The Interconnection Charge for each Seller is set forth in the Agreement as outlined in the Terms and Conditions; however, the \$25.00 minimum will not apply if the charge is for a meter only.

	<u>Interconnected to Distribution</u>		<u>Interconnected to Transmission</u>	
	<u>Two-Year</u>	<u>Fixed Long-Term</u>	<u>Two Year</u>	<u>Fixed Long-Term</u>
	<u>Fixed Rate</u>	<u>Rate (10 years)</u>	<u>Fixed Rate</u>	<u>Rate (10 years)</u>
<u>Energy Credits (¢/kWh)²:</u>				
<u>Credits Applicable to All but Uncontrolled Solar Generation³</u>				
On-peak kWh:				
a. Summer	4.385.09	4.794.75	4.234.92	4.634.59
b. Winter				
1. Morning Hours	4.684.55	5.715.23	4.554.42	5.555.09
2. Evening Hours	4.895.62	6.286.37	4.765.46	6.116.19
c. Premium Peak				
1. Summer	5.217.51	5.807.25	5.027.23	5.586.98
2. Winter	6.177.94	7.428.47	5.977.68	7.188.19
d. Shoulder	4.024.49	4.524.75	3.944.40	4.434.66
Off-peak kWh:				
a. Summer	3.683.61	4.003.83	3.603.53	3.913.75
b. Winter	4.063.85	4.924.36	3.973.77	4.824.27
c. Shoulder	3.273.21	3.603.36	3.223.16	3.553.32
<u>Credits Applicable to Uncontrolled Solar Generation⁴ Only</u>				
On-peak kWh:				
a. Summer	4.274.98	4.684.64	4.124.81	4.524.48
b. Winter				
1. Morning Hours	4.574.44	5.605.12	4.444.31	5.444.98
2. Evening Hours	4.785.51	6.176.26	4.655.35	6.006.08
c. Premium Peak				
1. Summer	5.107.40	5.697.14	4.917.12	5.476.87
2. Winter	6.067.83	7.318.36	5.867.57	7.078.08
d. Shoulder	3.914.38	4.414.64	3.834.29	4.324.55
Off-peak kWh:				
a. Summer	3.573.50	3.893.72	3.493.42	3.803.64
b. Winter	3.953.74	4.814.25	3.863.66	4.714.16
c. Shoulder	3.163.10	3.493.25	3.113.05	3.443.21

North Carolina Fourteenth(Proposed) Revised Leaf No. 90
Effective for energy and capacity rendered on and after November 1, 2023
NCUC Docket No. E-100, Sub 194, Order dated _____

SCHEDULE PP (NC)
PURCHASED POWER

Capacity Credits (¢/kWh)⁵:

Credits Applicable to All but: (i) Swine or Poultry Waste Generation for which a Need is Established Pursuant to N.C.G.S. § 62-133.8(e) and (f); and (ii) Certain Hydroelectric Generation under N.C.G.S. 62-156(b)(3)⁶

On-peak kWh:

Winter	<u>10.330.00</u>	<u>19.0511.27</u>	<u>10.030.00</u>	<u>18.5010.95</u>
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Credits Applicable to Swine or Poultry Waste Generation for Which a Need is Established Pursuant to N.C.G.S. § 62-133.8(e) and (f) and to Certain Hydroelectric Generation under N.C.G.S. 62-156(b)(3)⁶

On-peak kWh:

Winter	<u>21.2820.65</u>	<u>21.8521.21</u>	<u>20.6720.06</u>	<u>21.2320.60</u>
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² For Energy Credit purposes, Summer months are defined as calendar months June through September, Winter months are defined as calendar months December through February, and Shoulder months are defined as March through May and October through November. Summer on-peak hours shall be Monday through Friday from 12:00 p.m. noon to 5:00 p.m. and 9:00 p.m. to 11:00 p.m. Winter on-peak hours shall be Monday through Friday with morning hours from 5:00 a.m. to 6:00 a.m. and 9:00 a.m. to 10:00 a.m., plus evening hours from 5:00 p.m. to 11:00 p.m. Shoulder on-peak hours shall be Monday through Friday with morning hours from 6:00 a.m. to 10:00 a.m. plus evening hours from 4:00 p.m. to 11:00 p.m. Summer premium peak hours shall be Monday through Friday from 5:00 p.m. to 9:00 p.m. Winter premium peak hours shall be Monday through Friday from 6:00 a.m. to 9:00 a.m. There are no premium peak hours for Shoulder months. All other hours, plus the following holidays, shall be off-peak: New Year’s Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after, and Christmas Day. When a holiday falls on a Saturday, the Friday before the holiday will be considered off-peak; when the holiday falls on a Sunday, the following Monday will be considered off-peak.

³ Includes “controlled solar generation” defined as solar generation where the Qualifying Facility demonstrates that its facility is capable of operating, and contractually agrees to operate, in a manner that reduces its average daylight volatility to 6% or less of its average daylight power output. Controlled solar generation must be served under a negotiated Purchase Power Agreement that describes provisions for operating the technology used to reduce average daylight volatility.

⁴ “Uncontrolled Solar Generation” is defined as solar generation where the Qualifying Facility does not demonstrate that its facility is capable of operating, or does not contractually agree to operate, in a manner that reduces its average daylight volatility to 6% or less of its average daylight power output. Eligible Qualifying Facilities with controlled solar generation shall be governed under a negotiated Purchase Power Agreement between Seller and Company, which shall be based on Company’s standard Purchase Power Agreement and Terms and Conditions for the Purchase of Electric Power with additional terms added to address requirements for operating the technology used to reduce average daylight volatility.

⁵ Capacity Credit shall only be applicable to Winter months defined as calendar months of December through February. The on-peak hours shall be all Winter days from 5:00 a.m. to 10:00 a.m. Capacity credits are not applicable in all other months.

⁶ For hydroelectric generation where the Qualifying Facility renews a Purchased Power Agreement that was in effect as of July 27, 2017, under N.C.G.S. § 62-156(b)(3).

Duke Energy Carolinas, LLC

Electricity No. 4
North Carolina Fourteenth (Proposed) Revised Leaf No. 90
Superseding North Carolina Thirteenth Revised Leaf No. 90

SCHEDULE PP (NC)
PURCHASED POWER

AS-AVAILABLE RATESThe As-Available Rates² vary by hour, are denominated in cents/kWh, and are calculated by the Company for each hour of a calendar month at the end of such month. The As-Available Rates will reflect the joint dispatch of system resources by the Company and Duke Energy Progress, LLC. Such dispatch is based on the following factors, among others:

- incremental variable production cost, including fuel, variable operating and maintenance expenses, emission allowances, and reagents;
- replacement cost of supply resources, including power plants; and
- start-up costs.

Based on the dispatch outcomes that occurred during a calendar month, the As-Available Rates will be calculated for each hour in that month using the incremental cost of production of the next megawatt-hour. The calculations are processed using the PCI Post-Analysis module, a commercially available production cost model used to analyze and assign generation and purchased power costs to load. The As-Available Rates for Uncontrolled Solar Generation will incorporate the same reduction, in cents/kWh, that applies to Uncontrolled Solar Generation receiving the Fixed Long-Term Rates or the Two-Year Fixed Rates.

Eligible Qualifying Facilities compensated through As-Available Rates may request and obtain hourly marginal prices applicable to the Eligible Qualifying Facility's periods of delivery upon execution of and ongoing compliance with a non-disclosure agreement with the Company.

RENEWABLE ENERGY CREDITS

Unless otherwise specified in the Company's agreements with the Seller, the sale of power under this schedule does not convey to the Company the right to renewable energy credits (RECs) or green tags associated with the energy delivered.

INTERCONNECTION FACILITIES CHARGE

For Eligible Qualifying Facilities, the installed costs for all facilities constructed or installed by Company to interconnect and safely operate in parallel with Seller's equipment shall be determined in accordance with Company's Terms and Conditions for the Purchase of Electric Power. Interconnection of Seller's generation to Company's system shall be in accordance with the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generation Interconnections.

POWER FACTOR CORRECTION

Unless the Seller is required by an Operating Agreement to adjust VAR production to support voltage control, when the Seller consumes VARs supplied by the Company or the Seller delivers VARs to Company, the Company may reduce the purchased energy measured in kilowatt-hours for that month by multiplying by the Average Consumed Power Factor. The Average Consumed Power Factor shall be calculated on a monthly basis as the average kWh divided the average kVAh, where average kVAh shall be the square root of the sum of the average kWh squared plus the average consumed and delivered kVARh squared. Company reserves the right to install facilities necessary for the measurement of power factor and to adjust the Interconnection Facilities Charge accordingly, solely at the option of Company. If a Seller without an Operating Agreement is requested by the Company to operate pursuant to a voltage schedule by providing or absorbing VARS, the Seller shall be compensated in the same manner as sellers with Operating Agreements.

CONTRACT CAPACITY

The Contract Capacity shall be as specified in the Purchase Power Agreement between Company and Seller. Only one such Standard Contract shall be permitted for any Qualifying Facility.

² QFs that receive the Variable Rate pursuant to prior approved versions of the Schedule PP will be subject to the As-Available Rate.

SCHEDULE PP (NC)
PURCHASED POWER

RATE UPDATES

The Two-Year Fixed Rates, Fixed Long-Term Rates, Credits and Administrative Charge under this Schedule will be updated by the Company in November 1, 2025, or as otherwise directed by the North Carolina Utilities Commission, and every two years thereafter. Sellers who have contracted for the Fixed Long-Term Energy and Capacity Credits will not be affected by updates in the Energy and Capacity Credits until their rate term expires. For all Qualifying Facilities selling to Company pursuant to the Two-Year Fixed Capacity Rate provisions of this schedule, such capacity credits shall be updated and changed in accordance with the Commission’s revisions to such credits in the Company’s biennial avoided cost proceedings.

The sale, delivery, and use of electric power hereunder, and all services of whatever type to be rendered or performed in connection therewith, shall in all respects be subject to and in accordance with the Two-Year Fixed, Fixed Long-Term, or As-Available Rates selected by Seller and set forth in Company’s Schedule PP and the Terms and Conditions for the Purchase of Electric Power. Said Rate Schedule and Terms and Conditions for the Purchase of Electric Power are subject to change, revision, alteration or substitution, either in whole or in part, upon order of the Commission or any other regulatory authority having jurisdiction, and any such change, revision, alteration or substitution shall immediately be made a part of the Agreement as though fully written herein, and shall nullify any prior provision in conflict therewith. Any change to the Rate Schedule or Terms and Conditions shall not apply to the Fixed Long-Term Rates themselves, but it shall apply to all other provisions of the Rate Schedule and Terms and Conditions for the Purchase of Electric Power, including but not limited to Two-Year Fixed Rates, As-Available Rates, other types of charges, and all non-rate provisions. For Purchase Power Agreements executed pursuant to the Fixed Long Term rates approved in Docket No. E-100, Sub 167 or its predecessors, any change to the schedule shall not apply to the Fixed Long Term Energy and Capacity Rates during the Contract Period.

PAYMENTS

Credit billings to the Seller shall be payable to the Seller within fifteen (15) days of the date of the bill.

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month’s bill and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each Seller shall enter into a Purchase Power Agreement which shall specify the Contract Capacity committed for delivery throughout the term of the contract and shall specify the initial term and associated rate.

DEC Updated Exhibit 2 – PUBLIC REDACTED

**Supporting Calculations for Avoided Energy and
Capacity Credits, Inflation Rates, and Discount
Rates**

Docket No. E-100, Sub 194

DUKE ENERGY CAROLINAS, LLC
Energy Credits
Uncontrolled Solar Generation

Distribution
 Based on 2024-2025 Costs (2 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak (Cents/KWH)	DEC Summer PM-Peak (Cents/KWH)	DEC Summer Off Peak (Cents/KWH)	DEC Winter Prem-Peak (Cents/KWH)	DEC Winter AM-Peak (Cents/KWH)	DEC Winter PM-Peak (Cents/KWH)	DEC Winter Off Peak (Cents/KWH)	DEC Shoulder Peak (Cents/KWH)	DEC Shoulder Off Peak (Cents/KWH)
1. Avoided Energy Cost (Note 1)	4.95	4.18	3.56	5.90	4.49	4.70	3.93	3.89	3.19
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.041	1.036	1.023	1.036	1.030	1.030	1.023	1.021	1.015
4. Unadjusted Energy Credits (L1*L2*L3)	5.21	4.38	3.68	6.17	4.68	4.89	4.06	4.02	3.27
5. Integration Services Charge (Note 4)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)
6. Energy Credits (L4 + L5)	5.10	4.27	3.57	6.06	4.57	4.78	3.95	3.91	3.16

Distribution
 Based on 2024-2033 Costs (10 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak (Cents/KWH)	DEC Summer PM-Peak (Cents/KWH)	DEC Summer Off Peak (Cents/KWH)	DEC Winter Prem-Peak (Cents/KWH)	DEC Winter AM-Peak (Cents/KWH)	DEC Winter PM-Peak (Cents/KWH)	DEC Winter Off Peak (Cents/KWH)	DEC Shoulder Peak (Cents/KWH)	DEC Shoulder Off Peak (Cents/KWH)
1. Avoided Energy Cost (Note 1)	5.51	4.58	3.87	7.09	5.49	6.03	4.76	4.38	3.51
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.041	1.036	1.023	1.036	1.030	1.030	1.023	1.021	1.015
4. Unadjusted Energy Credits (L1*L2*L3)	5.80	4.79	4.00	7.42	5.71	6.28	4.92	4.52	3.60
5. Integration Services Charge (Note 4)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)
6. Energy Credits (L4 + L5)	5.69	4.68	3.89	7.31	5.60	6.17	4.81	4.41	3.49

Notes

- From Page 5
- From Page 13
- Marginal Loss Factor = 1 / (1 - % loss/100)

Based on marginal % losses of:

Applies to:

	Distribution Level Interconnections	Transmission Level Interconnections
DEC Summer Prem-Peak	3.916%	0.178%
DEC Summer PM-Peak	3.487%	0.158%
DEC Summer OffPeak	2.215%	0.101%
DEC Winter Prem-Peak	3.432%	0.156%
DEC Winter AM-Peak	2.890%	0.131%
DEC Winter PM-Peak	2.945%	0.134%
DEC Winter OffPeak	2.243%	0.102%
DEC Shoulder Peak	2.048%	0.093%
DEC Shoulder OffPeak	1.506%	0.068%

- Solar Integration Services Charge of \$1.09/MWH for DEC

DUKE ENERGY CAROLINAS, LLC
Energy Credits
Uncontrolled Solar Generation

Transmission
 Based on 2024-2025 Costs (2 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak (Cents/KWH)	DEC Summer PM-Peak (Cents/KWH)	DEC Summer Off Peak (Cents/KWH)	DEC Winter Prem-Peak (Cents/KWH)	DEC Winter AM-Peak (Cents/KWH)	DEC Winter PM-Peak (Cents/KWH)	DEC Winter Off Peak (Cents/KWH)	DEC Shoulder Peak (Cents/KWH)	DEC Shoulder Off Peak (Cents/KWH)
1. Avoided Energy Cost (Note 1)	4.95	4.18	3.56	5.90	4.49	4.70	3.93	3.89	3.19
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.002	1.002	1.001	1.002	1.001	1.001	1.001	1.001	1.001
4. Unadjusted Energy Credits (L1*L2*L3)	5.02	4.23	3.60	5.97	4.55	4.76	3.97	3.94	3.22
5. Integration Services Charge (Note 4)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)
6. Energy Credits (L4 + L5)	4.91	4.12	3.49	5.86	4.44	4.65	3.86	3.83	3.11

Transmission
 Based on 2024-2033 Costs (10 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak (Cents/KWH)	DEC Summer PM-Peak (Cents/KWH)	DEC Summer Off Peak (Cents/KWH)	DEC Winter Prem-Peak (Cents/KWH)	DEC Winter AM-Peak (Cents/KWH)	DEC Winter PM-Peak (Cents/KWH)	DEC Winter Off Peak (Cents/KWH)	DEC Shoulder Peak (Cents/KWH)	DEC Shoulder Off Peak (Cents/KWH)
1. Avoided Energy Cost (Note 1)	5.51	4.58	3.87	7.09	5.49	6.03	4.76	4.38	3.51
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.002	1.002	1.001	1.002	1.001	1.001	1.001	1.001	1.001
4. Unadjusted Energy Credits (L1*L2*L3)	5.58	4.63	3.91	7.18	5.55	6.11	4.82	4.43	3.55
5. Integration Services Charge (Note 4)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)	(0.109)
6. Energy Credits (L4 + L5)	5.47	4.52	3.80	7.07	5.44	6.00	4.71	4.32	3.44

Notes

- From Page 5
- From Page 13
- Marginal Loss Factor = 1 / (1 - % loss/100)

Based on marginal % losses of:

Applies to:

	Distribution Level Interconnections	Transmission Level Interconnections
DEC Summer Prem-Peak	3.916%	0.178%
DEC Summer PM-Peak	3.487%	0.158%
DEC Summer OffPeak	2.215%	0.101%
DEC Winter Prem-Peak	3.432%	0.156%
DEC Winter AM-Peak	2.890%	0.131%
DEC Winter PM-Peak	2.945%	0.134%
DEC Winter OffPeak	2.243%	0.102%
DEC Shoulder Peak	2.048%	0.093%
DEC Shoulder OffPeak	1.506%	0.068%

- Solar Integration Services Charge of \$1.09/MWH for DEC

DUKE ENERGY CAROLINAS, LLC
Energy Credits
All but Uncontrolled Solar Generation

Distribution
 Based on 2024-2025 Costs (2 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak	DEC Summer PM-Peak	DEC Summer Off Peak	DEC Winter Prem-Peak	DEC Winter AM-Peak	DEC Winter PM-Peak	DEC Winter Off Peak	DEC Shoulder Peak	DEC Shoulder Off Peak
	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)
1. Avoided Energy Cost (Note 1)	4.95	4.18	3.56	5.90	4.49	4.70	3.93	3.89	3.19
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.041	1.036	1.023	1.036	1.030	1.030	1.023	1.021	1.015
4. Energy Credits (L1*L2*L3)	5.21	4.38	3.68	6.17	4.68	4.89	4.06	4.02	3.27

Distribution
 Based on 2024-2033 Costs (10 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak	DEC Summer PM-Peak	DEC Summer Off Peak	DEC Winter Prem-Peak	DEC Winter AM-Peak	DEC Winter PM-Peak	DEC Winter Off Peak	DEC Shoulder Peak	DEC Shoulder Off Peak
	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)
1. Avoided Energy Cost (Note 1)	5.51	4.58	3.87	7.09	5.49	6.03	4.76	4.38	3.51
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.041	1.036	1.023	1.036	1.030	1.030	1.023	1.021	1.015
4. Energy Credits (L1*L2*L3)	5.80	4.79	4.00	7.42	5.71	6.28	4.92	4.52	3.60

Notes

- From Page 5
- From Page 13
- Marginal Loss Factor = 1 / (1 - %)

Based on marginal % losses of:

Applies to:

	Distribution Level Interconnections	Transmission Level Interconnections
DEC Summer Prem-Peak	3.916%	0.178%
DEC Summer PM-Peak	3.487%	0.158%
DEC Summer OffPeak	2.215%	0.101%
DEC Winter Prem-Peak	3.432%	0.156%
DEC Winter AM-Peak	2.890%	0.131%
DEC Winter PM-Peak	2.945%	0.134%
DEC Winter OffPeak	2.243%	0.102%
DEC Shoulder Peak	2.048%	0.093%
DEC Shoulder OffPeak	1.506%	0.068%

DUKE ENERGY CAROLINAS, LLC
Energy Credits
All but Uncontrolled Solar Generation

Transmission
 Based on 2024-2025 Costs (2 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak (Cents/KWH)	DEC Summer PM-Peak (Cents/KWH)	DEC Summer Off Peak (Cents/KWH)	DEC Winter Prem-Peak (Cents/KWH)	DEC Winter AM-Peak (Cents/KWH)	DEC Winter PM-Peak (Cents/KWH)	DEC Winter Off Peak (Cents/KWH)	DEC Shoulder Peak (Cents/KWH)	DEC Shoulder Off Peak (Cents/KWH)
1. Avoided Energy Cost (Note 1)	4.95	4.18	3.56	5.90	4.49	4.70	3.93	3.89	3.19
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.002	1.002	1.001	1.002	1.001	1.001	1.001	1.001	1.001
4. Energy Credits (L1*L2*L3)	5.02	4.23	3.60	5.97	4.55	4.76	3.97	3.94	3.22

Transmission
 Based on 2024-2033 Costs (10 Year Fixed)
 Cents per KWH

	DEC Summer Prem-Peak (Cents/KWH)	DEC Summer PM-Peak (Cents/KWH)	DEC Summer Off Peak (Cents/KWH)	DEC Winter Prem-Peak (Cents/KWH)	DEC Winter AM-Peak (Cents/KWH)	DEC Winter PM-Peak (Cents/KWH)	DEC Winter Off Peak (Cents/KWH)	DEC Shoulder Peak (Cents/KWH)	DEC Shoulder Off Peak (Cents/KWH)
1. Avoided Energy Cost (Note 1)	5.51	4.58	3.87	7.09	5.49	6.03	4.76	4.38	3.51
2. Working Capital Factor (Note 2)	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011	1.011
3. Marginal Loss Factor (Note 3)	1.002	1.002	1.001	1.002	1.001	1.001	1.001	1.001	1.001
4. Energy Credits (L1*L2*L3)	5.58	4.63	3.91	7.18	5.55	6.11	4.82	4.43	3.55

Notes

- From Page 5
- From Page 13
- Marginal Loss Factor = 1 / (1 - % loss/100)

Based on marginal % losses of:

Applies to:

DEC Summer Prem-Peak	3.916%
DEC Summer PM-Peak	3.487%
DEC Summer OffPeak	2.215%
DEC Winter Prem-Peak	3.432%
DEC Winter AM-Peak	2.890%
DEC Winter PM-Peak	2.945%
DEC Winter OffPeak	2.243%
DEC Shoulder Peak	2.048%
DEC Shoulder OffPeak	1.506%

Distribution Level Interconnections

Transmission Level Interconnections

3.916%	0.178%
3.487%	0.158%
2.215%	0.101%
3.432%	0.156%
2.890%	0.131%
2.945%	0.134%
2.243%	0.102%
2.048%	0.093%
1.506%	0.068%

Confidential Information Redacted

DUKE ENERGY CAROLINAS, LLC

Avoided Energy Costs

DEC Summer Prem-Peak	DEC Summer PM-Peak	DEC Summer Off Peak	DEC Winter Prem-Peak	DEC Winter AM-Peak	DEC Winter PM-Peak	DEC Winter Off Peak	DEC Shoulder Peak	DEC Shoulder Off Peak
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Year	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)
2024									
2025									
2026									
2027									
2028									
2029									
2030									
2031									
2032									
2033									

Fuel Hedge 0.080

DEC Summer Prem-Peak	DEC Summer PM-Peak	DEC Summer Off Peak	DEC Winter Prem-Peak	DEC Winter AM-Peak	DEC Winter PM-Peak	DEC Winter Off Peak	DEC Shoulder Peak	DEC Shoulder Off Peak
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Adjusted for Fuel Hedge	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)	(Cents/KWH)
2024									
2025									
2026									
2027									
2028									
2029									
2030									
2031									
2032									
2033									

2 Year Present Value	8.97	7.57	6.45	10.69	8.14	8.51	7.11	7.05	5.78
Levelized Value	4.95	4.18	3.56	5.90	4.49	4.70	3.93	3.89	3.19
10 Year Present Value	38.94	32.34	27.34	50.10	38.78	42.64	33.64	30.95	24.79
Levelized Value	5.51	4.58	3.87	7.09	5.49	6.03	4.76	4.38	3.51

Notes:

- Present values and levelized values are derived using a discount rate of 6.87%
- Energy costs include emission costs and fuel hedge value 0.80 \$/MWH (.08 cents/kwh)
- Energy Hour definition:

DEC NC	AM Periods		PM Periods	
	Peak	Premium	Peak	Premium
Jun-Sep			13-17 and 22-23	18-21
Dec-Feb	6 and 10	7-9	18-23	
Mar-May and Oct-Nov	7-10		17-23	

Confidential Information Redacted

DUKE ENERGY CAROLINAS, LLC
All Generation
 Capacity Cost for Determination
 of Capacity Credits

(2023 \$000s)

	Distribution		Transmission	
	CT Cost	FOM (6)	CT Cost	FOM (6)
1. Installed Combustion Turbine Cost (Note 1)	[REDACTED]			
2. Combustion Turbine Fixed Charge Rate (Note 2)	8.56%		8.56%	
3. Annual Combustion Turbine Carrying Cost (L1*L2)	[REDACTED]			
4. General Plant Factor (Note 3)	3.79%		3.79%	
5. Adjusted Annual Combustion Turbine Carrying Cost (L3 + (L3*L4))	[REDACTED]			
6. Combustion Turbine Fixed O&M Expenses	[REDACTED]			
7. Working Capital Factor (Note 4)		1.0073		1.0073
8. Subtotal (L5+(L6*L7))	[REDACTED]			
9. Performance Adjustment Factor (Note 5)	1.05	1.05	1.05	1.05
10. Marginal Loss Factor (Note 7)	1.0308	1.0308	1.0014	1.0014
11. Annual Capacity Cost (L8*L9*L10)	[REDACTED]			

Notes

- Cost for new combustion turbine based on EIA data in EOY 2023\$
- Real levelized carrying charge rates applicable to new combustion turbine installed cost
- From Page 14
- From Page 13
- Applicable to all generation
- FOM split out to apply O&M escalation rate
- Distribution:
 - Based on marginal % loss of:
 - On Peak 2.992% Loss factor = (1/(1 - On Peak loss%))
 - Transmission:
 - Step-Up Transformer Loss: 0.136% Loss factor = (1/(1 - Step up loss%))

Confidential Information Redacted

DUKE ENERGY CAROLINAS, LLC
All but Swine or Poultry Waste and Certain Hydroelectric Generation
 Annual Avoided Capacity Costs

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Year		Distribution				Transmission			
		CT Cost		FOM		CT Cost		FOM	
		Annual Capacity (CT) Cost (1)	(2023 \$000s) (Nominal \$000s)	Annual Capacity (FOM) Cost(1)	(2023 \$000s) (Nominal \$000s)	Annual Capacity (CT) Cost (1)	(2023 \$000s) (Nominal \$000s)	Annual Capacity (FOM) Cost(1)	(2023 \$000s) (Nominal \$000s)
2024	1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	2								
2026	3								
2027	4								
2028	5								
2029	6								
2030	7								
2031	8								
2032	9								
2033	10								

	Distribution			Transmission		
	Capacity (CT)	Capacity (FOM)	Capacity Cost	Capacity (CT)	Capacity (FOM)	Capacity Cost
2 Year Present Value (Note 2)	\$19,687	\$885	\$20,572	\$19,124	\$859	\$19,983
10 Year Present Value (Note 2)	\$141,240	\$6,777	\$148,017	\$137,201	\$6,583	\$143,785

Notes

- Annual Capacity Cost (Nominal \$) = Annual Capacity Cost ('23 \$) escalated at an annual rate of
 Annual CT cost portion of Capacity Cost from Page 6 escalated at an annual rate of 0.68%
 Annual FOM portion of Capacity Cost from Page 6 escalated at an annual rate of 2.50%
 Annual escalation starts in 2024
- Present values are derived using a discount rate of 6.87%
- Capacity value is included starting with the first year of capacity need

DUKE ENERGY CAROLINAS, LLC
All but Swine or Poultry Waste and Certain Hydroelectric Generation
 Capacity Credits
 2 Year Fixed
 Based on 2024-2025 Costs

	<u>Distribution</u> (Note 6)	<u>Transmission</u> (Note 6)
1. Avoided Capacity Cost Present Value of 2024-2025 (Note 1)	\$20,572	\$19,983
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$918	\$892
3. Annual Avoided Capacity Cost L2 x 12 months	\$11,015	\$10,700
<u>SEASONAL CREDITS</u> (Note 3)	Winter Months <u>AM</u>	Winter Months <u>AM</u>
4. Seasonal Allocation (Note 4)	100%	100%
5. Seasonal Allocation of annual capacity cost L3 x L4	\$11,015	\$10,700
6. Rating -MW (Note 5)	237	237
7. Seasonal Capacity Credit (\$/KW) L5/L6	\$46.48	\$45.15
8. Seasonal Peak Hours	450	450
9. Seasonal Capacity Credits (cents/KWH) L7/L8 * 100	<u>10.33</u>	<u>10.03</u>

Notes

1. From Page 7

2. Ordinary annuity factor where $i =$ (1.0687 $^{(1/12)-1} * 100 =$ 0.5550%
and $n =$ 24 months

3. Capacity Hour Definition:

DEC	Winter	
	AM	PM
Dec-Feb	6-10	

4. Based on Loss of Load Risk

5. Rating for new combustion turbine

6. \$ in 000s except as noted

DUKE ENERGY CAROLINAS, LLC
All but Swine or Poultry Waste and Certain Hydroelectric Generation
 Capacity Credits
 10 Year Fixed
 Based on 2024-2033 Costs

	Distribution (Note 6)	Transmission (Note 6)
1. Avoided Capacity Cost Present Value of 2024-2033 (Note 1)	\$148,017	\$143,785
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$1,693	\$1,644
3. Annual Avoided Capacity Cost L2 x 12 months	\$20,313	\$19,733
<u>SEASONAL CREDITS</u> (Note 3)	Winter Months AM	Winter Months AM
4. Seasonal Allocation (Note 4)	100%	100%
5. Seasonal Allocation of annual capacity cost L3 x L4	\$20,313	\$19,733
6. Rating -MW (Note 5)	237	237
7. Seasonal Capacity Credit (\$/KW) L5/L6	\$85.71	\$83.26
8. Seasonal Peak Hours	450	450
9. Seasonal Capacity Credits (cents/KWH) L7/L8 * 100	19.05	18.50

Notes

1. From Page 7

2. Ordinary annuity factor where $i =$ (1.0687 $^{(1/12)-1} * 100 =$ 0.5550%
and $n =$ 120 months

3. Capacity Hour Definition:

DEC	Winter	
	AM	PM
Dec-Feb	6-10	

4. Based on Loss of Load Risk

5. Rating for new combustion turbine

6. \$ in 000s except as noted

Confidential Information Redacted

DUKE ENERGY CAROLINAS, LLC
Swine or Poultry Waste and Certain Hydroelectric Generation
 Annual Avoided Capacity Costs

Year		Distribution				Transmission			
		CT Cost Annual Capacity (CT) Cost (1) <small>(2023 \$000s)</small>	FOM Annual Capacity (FOM) Cost(1) <small>(Nominal \$000s)</small>	CT Cost Annual Capacity (CT) Cost (1) <small>(2023 \$000s)</small>	FOM Annual Capacity (FOM) Cost(1) <small>(Nominal \$000s)</small>				
2024	1	[REDACTED DATA]							
2025	2								
2026	3								
2027	4								
2028	5								
2029	6								
2030	7								
2031	8								
2032	9								
2033	10								

	Distribution			Transmission		
	Capacity (CT)	Capacity (FOM)	Capacity Cost	Capacity (CT)	Capacity (FOM)	Capacity Cost
2 Year Present Value (Note 2)	\$40,584	\$1,807	\$42,391	\$39,424	\$1,755	\$41,179
10 Year Present Value (Note 2)	\$162,137	\$7,699	\$169,837	\$157,501	\$7,479	\$164,980

Notes

- Annual Capacity Cost (Nominal \$) = Annual Capacity Cost ('23 \$) escalated at an annual rate of
 Annual CT cost portion of Capacity Cost from Page 6 escalated at an annual rate of 0.68%
 Annual FOM portion of Capacity Cost from Page 6 escalated at an annual rate of 2.50%
 Annual escalation starts in 2024
- Present values are derived using a discount rate of 6.87%
- Capacity value is included starting with the first year

Duke Energy Carolinas, LLC

DUKE ENERGY CAROLINAS, LLC
Swine or Poultry Waste and Certain Hydroelectric Generation
 Capacity Credits
 2 Year Fixed
 Based on 2024-2025 Costs

	<u>Distribution</u> (Note 6)	<u>Transmission</u> (Note 6)
1. Avoided Capacity Cost Present Value of 2024-2025 (Note 1)	\$42,391	\$41,179
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$1,891	\$1,837
3. Annual Avoided Capacity Cost L2 x 12 months	\$22,697	\$22,048
<u>SEASONAL CREDITS</u> (Note 3)	<u>Winter Months AM</u>	<u>Winter Months AM</u>
4. Seasonal Allocation (Note 4)	100%	100%
5. Seasonal Allocation of annual capacity cost L3 x L4	\$22,697	\$22,048
6. Rating -MW (Note 5)	237	237
7. Seasonal Capacity Credit (\$/KW) L5/L6	\$95.77	\$93.03
8. Seasonal Peak Hours	450	450
9. Seasonal Capacity Credits (cents/KWH) L7/L8 * 100	<u>21.28</u>	<u>20.67</u>

Notes

- From Page 10
- Ordinary annuity factor where $i =$ (1.0687 $^{(1/12)-1} * 100 =$ 0.5550%
and $n =$ 24 months
- Capacity Hour Definition:

DEC	Winter	
	AM	PM
Dec-Feb	6-10	

- Based on Loss of Load Risk
- Rating for new combustion turbine
- \$ in 000s except as noted

DUKE ENERGY CAROLINAS, LLC
Swine or Poultry Waste and Certain Hydroelectric Generation
 Capacity Credits
 10 Year Fixed
 Based on 2024-2033 Costs

	<u>Distribution</u> (Note 6)	<u>Transmission</u> (Note 6)
1. Avoided Capacity Cost Present Value of 2024-2033 (Note 1)	\$169,837	\$164,980
2. Monthly Avoided Capacity Cost L1 x (A/P) (Note 2)	\$1,942	\$1,887
3. Annual Avoided Capacity Cost L2 x 12 months	\$23,308	\$22,641
<u>SEASONAL CREDITS</u> (Note 3)	Winter Months <u>AM</u>	Winter Months <u>AM</u>
4. Seasonal Allocation (Note 4)	100%	100%
5. Seasonal Allocation of annual capacity cost L3 x L4	\$23,308	\$22,641
6. Rating -MW (Note 5)	237	237
7. Seasonal Capacity Credit (\$/KW) L5/L6	\$98.35	\$95.53
8. Seasonal Peak Hours	450	450
9. Seasonal Capacity Credits (cents/KWH) L7/L8 * 100	<u>21.85</u>	<u>21.23</u>

Notes

- From Page 10
- Ordinary annuity factor where $i =$ (1.0687 $^{(1/12)-1} * 100 =$ 0.5550%
and $n =$ 120 months
- Capacity Hour Definition:

DEC	Winter	
	AM	PM
Dec-Feb	6-10	

- Based on Loss of Load Risk
- Rating for new combustion turbine
- \$ in 000s except as noted

Duke Energy Carolinas, LLC

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Feb 15 2024

DUKE ENERGY CAROLINAS, LLC

Allowance For Working Capital
 (\$ 000)

	2018	2019	2020	2021	2022	Source (Note 4)
1. Materials & Supplies (Production)	\$212,345	\$150,684	\$259,696	\$73,570	\$170,043	P 227, L7
2. Fuel Stock	\$220,761	\$230,172	\$226,369	\$237,480	\$290,009	P 227, L1
3. Production O&M	\$2,838,364	\$2,736,561	\$2,539,709	\$2,417,671	\$2,845,203	P 320-323, L80
4. Burned Fuel Cost And PP (Note 1)	\$2,001,979	\$1,823,692	\$1,469,442	\$1,900,235	\$3,276,617	pg 320-323, L5,25,45, 63, 76
5. Nonfuel Production O&M (L3-L4)	\$836,385	\$912,869	\$1,070,267	\$517,436	(\$431,414)	
6. Nonfuel Related Allowance For Working Capital L1 x 8.95% (Note 2)	\$19,005	\$13,486	\$23,242	\$6,584	\$15,219	
7. Allowance For Working Capital As a % Of Nonfuel Production O&M L6/L5	2.27%	1.48%	2.17%	1.27%	-3.53%	
8. 5 Year Average For Working Capital as a % of Nonfuel Production O&M						0.73%
9. Fuel Related Allowance for Working Capital L2x 8.95% (Note 2)	\$19,758	\$20,600	\$20,260	\$21,254	\$25,955	
10. Allowance For Working Capital As a % Of Burned Fuel L9/L4	0.99%	1.13%	1.38%	1.12%	0.79%	
11. 5 Year Average For Working Capital as a % of Burned Fuel					1.08%	
12. Weighted Average For Working Capital For Fuel and O&M (Note 3)						1.06%

Notes:

1. Steam Fuel + Nuclear Fuel + Other Fuel + Purchased Power
2. Pre-Tax Rate of Return on Capital
3. Weights Based on Average Breakdown of Avoided Cost Between Fuel and Variable O&M
 Fuel: 94%
 Variable O&M: 6%
 Weighted Average = (Average Line 8 * Variable O&M Weight) + (Average Line 11 * Fuel Weight)
4. Data From FERC Form 1, Annual Issues

DUKE ENERGY CAROLINAS, LLC

General / Intangible Plant Loading Factor
 (\$ 000)

<u>Description</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>Source (Note 2)</u>
1. Electric Plant in Service (Note 1)	41,087,210	45,464,149	46,962,800	47,929,453	50,046,069	P 206-7, L 104-ARO
2. General Plant	1,212,054	1,335,933	1,435,693	1,423,518	1,752,196	P 206-7, L 99
3. Intangible Plant	986,751	1,042,384	1,094,061	1,206,177	1,250,620	P 204-5, L 5
4. Plant in Service Adj for Gen/ Int Plant	<u>\$38,888,405</u>	<u>\$43,085,832</u>	<u>\$44,433,046</u>	<u>\$45,299,758</u>	<u>\$47,043,253</u>	

Functionalized Plant Balances

5. Production Demand (Note 1)	22,749,854	25,723,860	25,937,271	25,854,898	26,129,451	P 206-7, L 46
6. Transmission	4,052,747	4,467,299	4,733,811	4,963,954	5,308,063	P 206-7, L 58
7. Distribution	12,085,804	12,894,673	13,761,964	14,480,906	15,605,739	P 206-7, L 75

Unit Cost Functionalization: General Intangible
 Production Demand 28% 50% Unit Cost Analysis for 2022 COS

<u>Gen / Int Plant Adder (Note 3)</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>Average</u>
Production Demand	3.66%	3.48%	3.66%	3.87%	4.27%	3.79%

Notes

- Values are net of ARO-related balances FF1 pg 206-7 (Lines 15,24,34,44,57,74,98)
- Data From FERC Form 1, Annual Issues
- Formula:

$$\frac{(\text{General Plant} \times \text{General Plant Unit Cost Functionalization \%})}{\text{Functionalized Plant Balance}} + \frac{(\text{Intangible Plant} \times \text{Intangible Plant Unit Cost Functionalization \%})}{\text{Functionalized Plant Balance}}$$

DEC Updated Exhibit 5

DEC's Annualized Rates

Docket No. E-100, Sub 194

DUKE ENERGY CAROLINAS, LLC
Proposed Rates (Annualized)
Uncontrolled Solar Generation

Performance Adjustment Factor: 1.05

INTERCONNECTED TO: DISTRIBUTION SYSTEM

Line No.	Description	Fixed Long-Term Rates		
		2 Years	10 Years	
		Cents per KWH		
1	Energy Credit Summer Premium Peak	5.10	5.69	(a)1
2	Energy Credit Summer PM Peak	4.27	4.68	(a)2
3	Energy Credit Summer Off Peak	3.57	3.89	(a)3
4	Energy Credit Winter Premium Peak	6.06	7.31	(a)4
5	Energy Credit Winter AM Peak	4.57	5.60	(a)5
6	Energy Credit Winter PM Peak	4.78	6.17	(a)6
7	Energy Credit Winter Off Peak	3.95	4.81	(a)7
8	Energy Credit Shoulder Peak	3.91	4.41	(a)8
9	Energy Credit Shoulder Off Peak	3.16	3.49	(a)9
10				
11				
12	Capacity Credit Winter AM	10.33	19.05	(b)1
13				
14				
15	Annualized Energy	3.79	4.32	
16	Annualized Capacity	0.53	0.98	
17	Annualized Total	4.32	5.30	

INTERCONNECTED TO: TRANSMISSION SYSTEM

Line No.	Description	Fixed Long-Term Rates		
		2 Years	10 Years	
		Cents per KWH		
18	Energy Credit Summer Premium Peak	4.91	5.47	(a)1
19	Energy Credit Summer PM Peak	4.12	4.52	(a)2
20	Energy Credit Summer Off Peak	3.49	3.80	(a)3
21	Energy Credit Winter Premium Peak	5.86	7.07	(a)4
22	Energy Credit Winter AM Peak	4.44	5.44	(a)5
23	Energy Credit Winter PM Peak	4.65	6.00	(a)6
24	Energy Credit Winter Off Peak	3.86	4.71	(a)7
25	Energy Credit Shoulder Peak	3.83	4.32	(a)8
26	Energy Credit Shoulder Off Peak	3.11	3.44	(a)9
27				
28				
29	Capacity Credit Winter AM	10.03	18.50	(b)1
30				
31				
32	Annualized Energy	3.70	4.22	
33	Annualized Capacity	0.52	0.95	
34	Annualized Total	4.22	5.17	

NOTE: Calculation of Annualized Numbers

Annualized Energy ((a1 * c1) + (a2 * c2) + (a3 * c3) + (a4 * c4) + (a5 * c5) + (a6 * c6) + (a7 * c7) + (a8 * c8) + (a9 * c9)) / (e)

Annualized Capacity ((b1 * d1) / (e)

Annualized Total (Annualized Energy + Annualized capacity)

	Energy Hours		Capacity Hours	
Summer Premium Peak	341	(c) 1		
Summer PM Peak	596	(c) 2	Winter AM	450 (d)1
Summer Off Peak	1,991	(c) 3		
Winter Premium Peak	187	(c) 4		450
Winter AM Peak	125	(c) 5		
Winter PM Peak	374	(c) 6		
Winter Off Peak	1,475	(c) 7		
Shoulder Peak	1,158	(c) 8		
Shoulder Off Peak	2,514	(c) 9		
	8,760	(e)		

DUKE ENERGY CAROLINAS, LLC
Proposed Rates (Annualized)
Swine or Poultry Waste and Certain Hydroelectric Generation

Performance Adjustment Factor: 1.05

INTERCONNECTED TO: DISTRIBUTION SYSTEM

Line No.	Description	Fixed Long-Term Rates		
		2 Years	10 Years	
		Cents per KWH	Cents per KWH	
1	Energy Credit Summer Premium Peak	5.21	5.80	(a)1
2	Energy Credit Summer PM Peak	4.38	4.79	(a)2
3	Energy Credit Summer Off Peak	3.68	4.00	(a)3
4	Energy Credit Winter Premium Peak	6.17	7.42	(a)4
5	Energy Credit Winter AM Peak	4.68	5.71	(a)5
6	Energy Credit Winter PM Peak	4.89	6.28	(a)6
7	Energy Credit Winter Off Peak	4.06	4.92	(a)7
8	Energy Credit Shoulder Peak	4.02	4.52	(a)8
9	Energy Credit Shoulder Off Peak	3.27	3.60	(a)9
10				
11	Capacity Credit Summer PM			
12	Capacity Credit Winter AM	21.28	21.85	(b)1
13				
14				
15	Annualized Energy	3.90	4.43	
16	Annualized Capacity	1.09	1.12	
17	Annualized Total	4.99	5.55	

INTERCONNECTED TO: TRANSMISSION SYSTEM

Line No.	Description	Fixed Long-Term Rates		
		2 Years	10 Years	
		Cents per KWH	Cents per KWH	
18	Energy Credit Summer Premium Peak	5.02	5.58	(a)1
19	Energy Credit Summer PM Peak	4.23	4.63	(a)2
20	Energy Credit Summer Off Peak	3.60	3.91	(a)3
21	Energy Credit Winter Premium Peak	5.97	7.18	(a)4
22	Energy Credit Winter AM Peak	4.55	5.55	(a)5
23	Energy Credit Winter PM Peak	4.76	6.11	(a)6
24	Energy Credit Winter Off Peak	3.97	4.82	(a)7
25	Energy Credit Shoulder Peak	3.94	4.43	(a)8
26	Energy Credit Shoulder Off Peak	3.22	3.55	(a)9
27				
28	Capacity Credit Summer PM			
29	Capacity Credit Winter AM	20.67	21.23	(b)1
30				
31				
32	Annualized Energy	3.81	4.33	
33	Annualized Capacity	1.06	1.09	
34	Annualized Total	4.87	5.42	

NOTE: Calculation of Annualized Numbers

Annualized Energy ((a1 * c1) + (a2 * c2) + (a3 * c3) + (a4 * c4) + (a5 * c5) + (a6 * c6) + (a7 * c7) + (a8 * c8) + (a9 * c9)) / (e)

Annualized Capacity ((b1 * d1) / (e)

Annualized Total (Annualized Energy + Annualized capacity)

	Energy Hours		Capacity Hours	
Summer Premium Peak	341	(c) 1		
Summer PM Peak	596	(c) 2	Winter AM	450 (d)1
Summer Off Peak	1,991	(c) 3		
Winter Premium Peak	187	(c) 4		
Winter AM Peak	125	(c) 5		
Winter PM Peak	374	(c) 6		
Winter Off Peak	1,475	(c) 7		
Shoulder Peak	1,158	(c) 8		
Shoulder Off Peak	2,514	(c) 9		
	8,760	(e)		

**DUKE ENERGY CAROLINAS, LLC
 Proposed Rates (Annualized)**

All but Swine or Poultry Waste, Certain Hydroelectric, and Uncontrolled Solar Generation

Performance Adjustment Factor: 1.05

INTERCONNECTED TO: DISTRIBUTION SYSTEM

Line No.	Description	Fixed Long-Term Rates		
		2 Years	10 Years	
		Cents per KWH	Cents per KWH	
1	Energy Credit Summer Premium Peak	5.21	5.80	(a)1
2	Energy Credit Summer PM Peak	4.38	4.79	(a)2
3	Energy Credit Summer Off Peak	3.68	4.00	(a)3
4	Energy Credit Winter Premium Peak	6.17	7.42	(a)4
5	Energy Credit Winter AM Peak	4.68	5.71	(a)5
6	Energy Credit Winter PM Peak	4.89	6.28	(a)6
7	Energy Credit Winter Off Peak	4.06	4.92	(a)7
8	Energy Credit Shoulder Peak	4.02	4.52	(a)8
9	Energy Credit Shoulder Off Peak	3.27	3.60	(a)9
10				
11				
12	Capacity Credit Winter AM	10.33	19.05	(b)1
13				
14				
15	Annualized Energy	3.90	4.43	
16	Annualized Capacity	0.53	0.98	
17	Annualized Total	4.43	5.41	

INTERCONNECTED TO: TRANSMISSION SYSTEM

Line No.	Description	Fixed Long-Term Rates		
		2 Years	10 Years	
		Cents per KWH	Cents per KWH	
18	Energy Credit Summer Premium Peak	5.02	5.58	(a)1
19	Energy Credit Summer PM Peak	4.23	4.63	(a)2
20	Energy Credit Summer Off Peak	3.60	3.91	(a)3
21	Energy Credit Winter Premium Peak	5.97	7.18	(a)4
22	Energy Credit Winter AM Peak	4.55	5.55	(a)5
23	Energy Credit Winter PM Peak	4.76	6.11	(a)6
24	Energy Credit Winter Off Peak	3.97	4.82	(a)7
25	Energy Credit Shoulder Peak	3.94	4.43	(a)8
26	Energy Credit Shoulder Off Peak	3.22	3.55	(a)9
27				
28				
29	Capacity Credit Winter AM	10.03	18.50	(b)1
30				
31				
32	Annualized Energy	3.81	4.33	
33	Annualized Capacity	0.52	0.95	
34	Annualized Total	4.33	5.28	

NOTE: Calculation of Annualized Numbers

Annualized Energy $((a1 * c1) + (a2 * c2) + (a3 * c3) + (a4 * c4) + (a5 * c5) + (a6 * c6) + (a7 * c7) + (a8 * c8) + (a9 * c9)) / (e)$

Annualized Capacity $((b1 * d1) / (e))$

Annualized Total (Annualized Energy + Annualized capacity)

	Energy Hours		Capacity Hours	
Summer Premium Peak	341	(c) 1		
Summer PM Peak	596	(c) 2	450	(d) 1
Summer Off Peak	1,991	(c) 3		
Winter Premium Peak	187	(c) 4	450	
Winter AM Peak	125	(c) 5		
Winter PM Peak	374	(c) 6		
Winter Off Peak	1,475	(c) 7		
Shoulder Peak	1,158	(c) 8		
Shoulder Off Peak	2,514	(c) 9		
	8,760	(e)		

DEC Updated Exhibit 11

DEC's Net Excess Energy Credit

Docket No. E-100, Sub 194

Duke Energy Carolinas, LLC

DUKE ENERGY CAROLINAS, LLC
Proposed Net Excess Energy Credit

INTERCONNECTED TO: DISTRIBUTION SYSTEM

<u>Line No.</u>	<u>Description</u>	<u>NEEC (A,B)</u>	
		Cents per KWH	
1	Energy Credit Summer Premium Peak	5.62	(a)1
2	Energy Credit Summer PM Peak	4.60	(a)2
3	Energy Credit Summer Off Peak	3.81	(a)3
4	Energy Credit Winter Premium Peak	7.08	(a)4
5	Energy Credit Winter AM Peak	5.43	(a)5
6	Energy Credit Winter PM Peak	5.77	(a)6
7	Energy Credit Winter Off Peak	4.63	(a)7
8	Energy Credit Shoulder Peak	4.28	(a)8
9	Energy Credit Shoulder Off Peak	3.40	(a)9
10			
11			
12	Capacity Credit Winter AM	16.68	(b)1
13			
14			
15	Annualized NEEC Energy Credit	4.03	
16	Annualized NEEC Capacity Credit	0.37	
17	Annualized Total NEEC Credit (C)	4.40	

- Note A Rates are based on based on 5-year avoided costs
 Note B Rates include the Solar Integration Services Charge of \$1.09/MWH
 Note C Calculation of Annualized Numbers

	Energy			Capacity	
Summer Premium Peak	34	(c)1			
Summer PM Peak	231	(c)2	Winter AM	31	(d)1
Summer Off Peak	293	(c)3			
Winter Premium Peak	7	(c)4			
Winter AM Peak	14	(c)5			
Winter PM Peak	1	(c)6			
Winter Off Peak	217	(c)7			
Shoulder Peak	105	(c)8			
Shoulder Off Peak	501	(c)9			
	1,402	(e)			

Annualized NEEC Energy Credit $((a1 * c1) + (a2 * c2) + (a3 * c3) + (a4 * c4) + (a5 * c5) + (a6 * c6) + (a7 * c7) + (a8 * c8) + (a9 * c9)) / (e)$
 Annualized NEEC Capacity Credit $((b1 * d1) / (e))$
 Annualized Total NEEC Credit (C)

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