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October 10, 2025

VIA ELECTRONIC FILING

Ms. A. Shonta Dunston, Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4300

**RE: Duke Energy Carolinas, LLC and Duke Energy Progress, LLC's
Technical Conference Presentation Materials
Docket No. E-100, Sub 208**

Dear Ms. Dunston:

Pursuant to Ordering Paragraph (5a) of the June 6, 2025, *Order Initiating Proceeding and Requesting Comments* and the August 27, 2025, *Errata Order* ("Procedural Orders") issued in the above captioned proceeding, enclosed for filing is Duke Energy Carolinas, LLC ("DEC") and Duke Energy Progress LLC's ("DEP", together with DEC, the "Companies") Technical Conference Presentation materials.

Additionally, as directed by the Commission's October 1, 2025, *Order Requiring Printed Material and Clarifying Start Time for Technical Conference*, the Companies will provide five paper copies of this filing prior to the start of the October 14, 2025 technical conference.

If you have any questions, please do not hesitate to contact me.

Sincerely,

Jack E. Jirak

Enclosure

c: Parties of Record

OFFICIAL COPY

Oct 10 2025

NCUC Technical Conference

Docket No. E-100, Sub 208
Large Electric Load Additions

Duke Energy Carolinas, LLC
Duke Energy Progress, LLC

October 14-15, 2025



BUILDING A SMARTER ENERGY FUTURE®



Introduction and Presenters

Economic Development Update



Andrew Tate

*Managing Director,
Economic
Development*

Contracting Process and Protections



Alex Castle

*Deputy General
Counsel*

Pricing and Cost Recovery



Jonathan Byrd

*Managing Director,
Rate Design and
Regulatory Solutions*

Resource Planning Implications



Michael Quinto

*Director, IRP
Advanced Analytics*



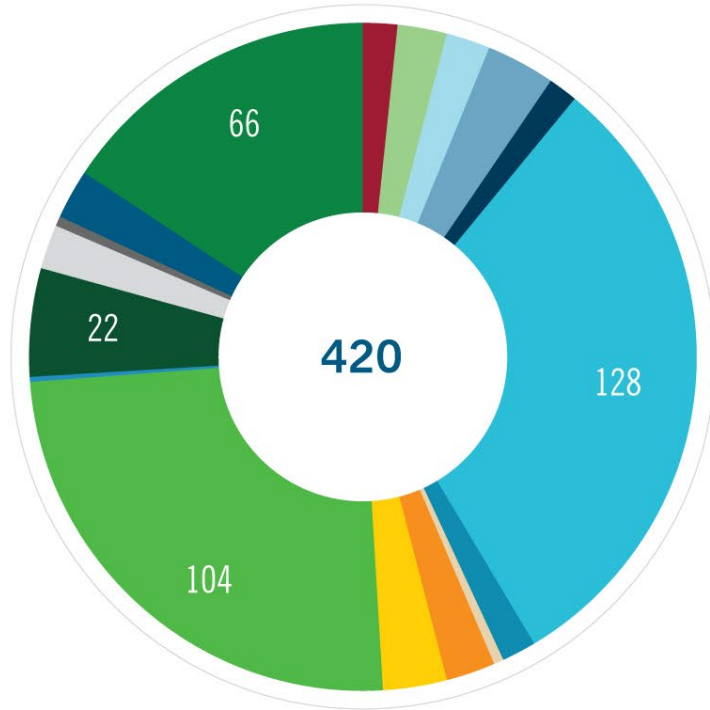
Andrew Tate

*Managing Director, Economic
Development*

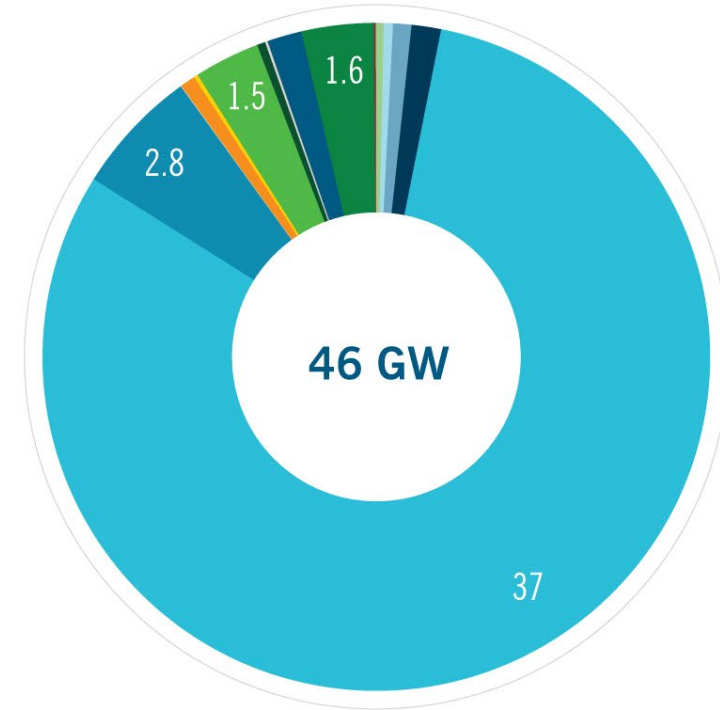
Carolinas Economic Development Pipeline

as of October 8, 2025

Project Count



Estimated GW



Note: The Economic Development Pipeline includes all currently active inquiries related to service in the Carolinas, including those that are more speculative in nature as well as projects that are performing competitive multi-state searches for what will be a single project. For resource planning purposes, the Companies assume only a small subset of such projects progress to receive service. Slide 11 describes the methodology applied to incorporate economic development projects in the load forecasts used for resource planning purposes.



Alex Castle

Deputy General Counsel

Contracting Process Sequence & Overview

Study

- Impacts of new load on the system
- Necessary power delivery infrastructure
- Near-term reliability review



Letter Agreement

- Work initiation
- Customer accountability
- Refundable Advance



Electric Service Agreement

- Long term service
- Applicable tariffs, rate schedules & service regulations
- Incremental Terms for Large Load



Contract Approach



Long-Term
Contract

Min Billing
Demand

Termination
Damages

Credit
Support

Refundable
Advance

Curtailement
Provision

- **Performance and credit provisions enabled in Service Regulations and applicable across all tariffs.**
- **Contract structures support two key goals:**
 - Establish greater certainty for planning and revenue
 - Mitigate risk and impacts to other customers
- **Present provisions:**
 - Minimum contract term of at least 15 years
 - Minimum billing demand requirements of 75% of customer's contract demand
 - Termination damages based on a portion of remaining minimum bills
 - Standard security requirements, reflecting size of potential termination damages
 - Refundable advance covering interconnection infrastructure
 - Curtailment for up to 95% of load for 50 hr/yr. or 50% of load for 100 hr/yr.

Future Considerations

Longer Terms

Notice Requirements

Lower Threshold

Permitted Contract
Reductions



Jonathan Byrd

*Managing Director, Rate Design
and Regulatory Solutions*

Pricing and Cost Recovery

Guiding Principles



Cost-Causation Works

- Large loads call for **incremental provisions**, not abandonment of current model
- Balances **customer protections** with fostering **economic prosperity**

Flexibility Needed in Maturing Market

- **Flexibility with transparency** a necessity given current pace of change
- Responsiveness needed for future considerations and load innovations
- Service Reg approach provides both oversight and agility

Target Symmetry in Planning Risks

- **Direct recovery** for site-specific costs
- **Carrying costs** for network investments
- Financial commitments to improve **load forecasting**
- Timing issues addressed with refundable advance and curtailment provisions

Large Loads Pay Their Fair Share

- **Today:** Large loads cover their generation and transmission costs
- **Tomorrow:** Large loads continue to cover costs and also contribute to future grid modernization and other system needs

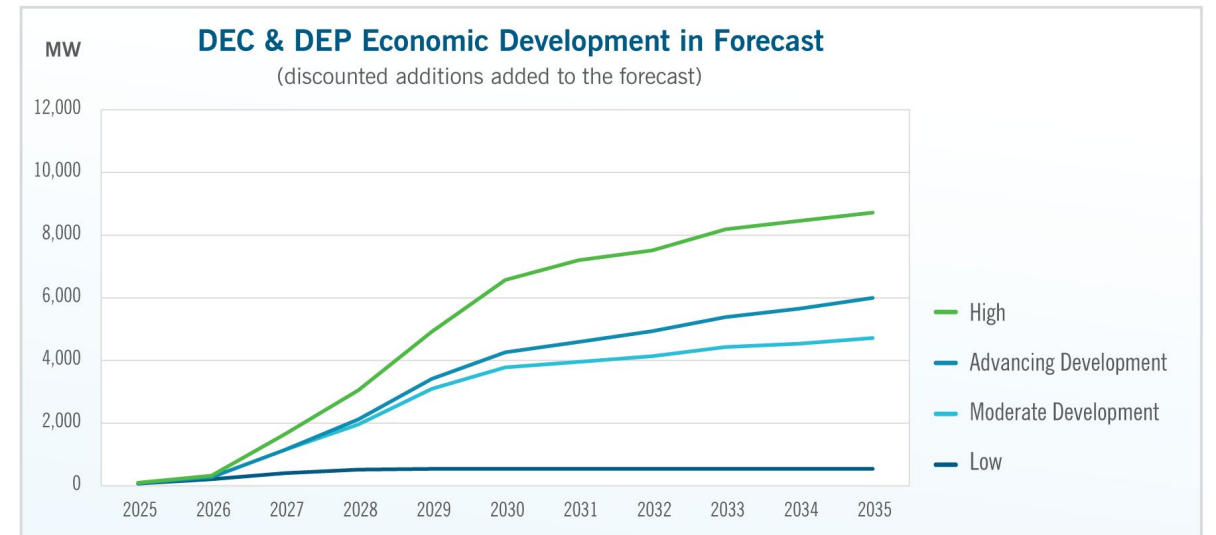
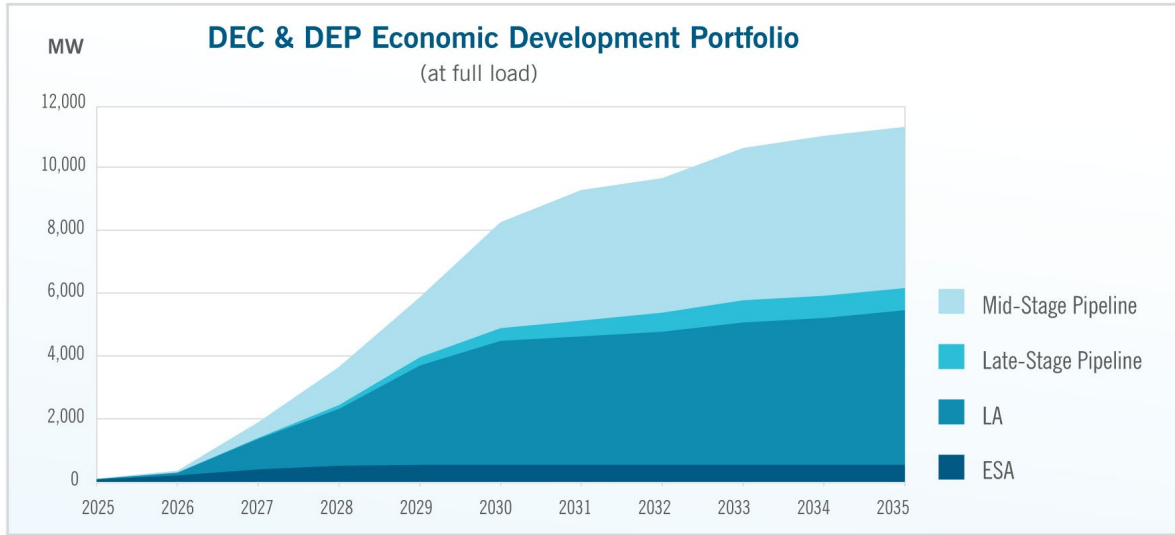
The Company's current pricing and rate-making policies are well tested and resilient, providing just and reasonable rates for all customers while supporting the economic vitality in North Carolina.



Mike Quinto

Director, IRP Advanced Analytics

Load Forecast | Planning for Economic Development



Low Case

Includes only the contracts that have a signed ESA

- ESA – Full Load

Moderate Development

Include contracts with signed ESA, LA and Late-Stage Pipeline

- ESA – Full Load
- LA – 25% reduction
- Late-Stage Pipeline – 30% reduction

Advancing Development

Same assumptions as Moderate Development, PLUS:

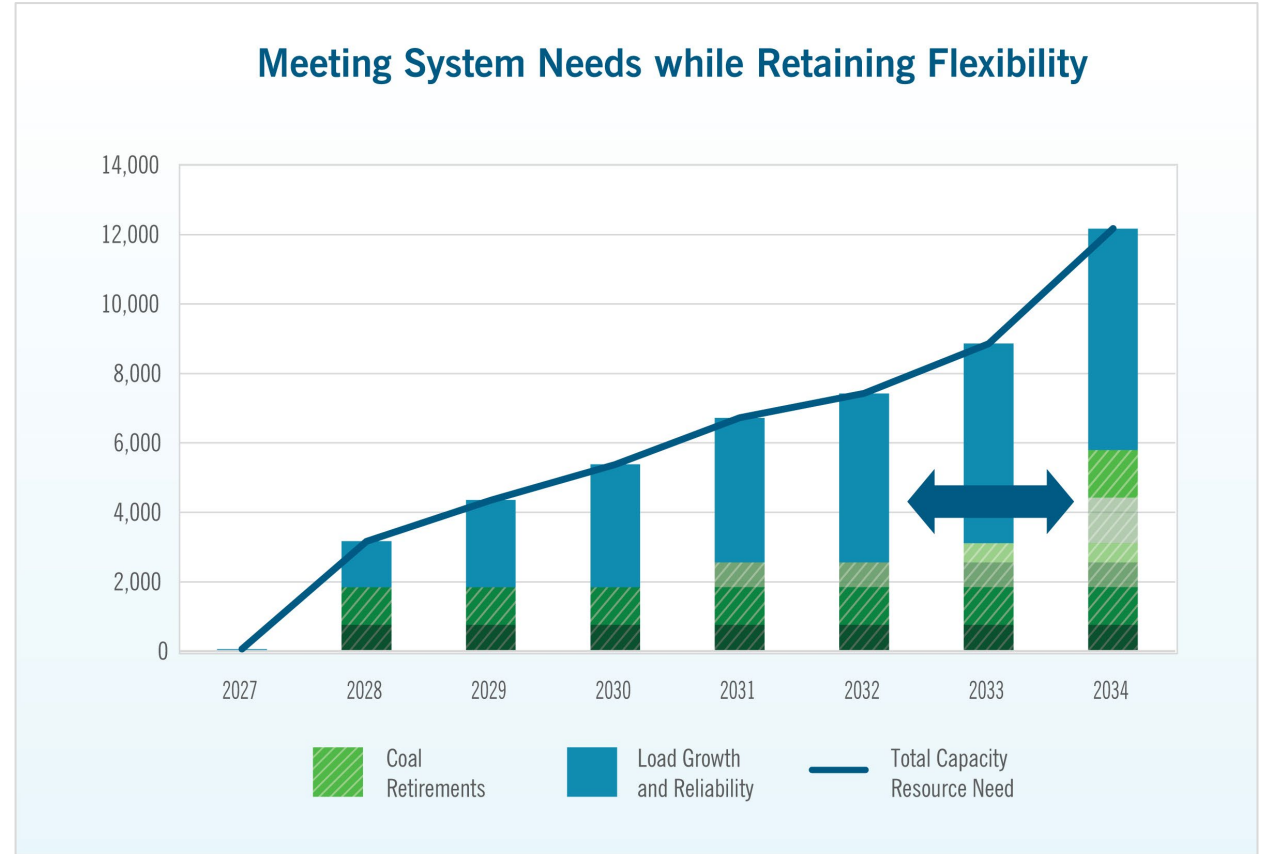
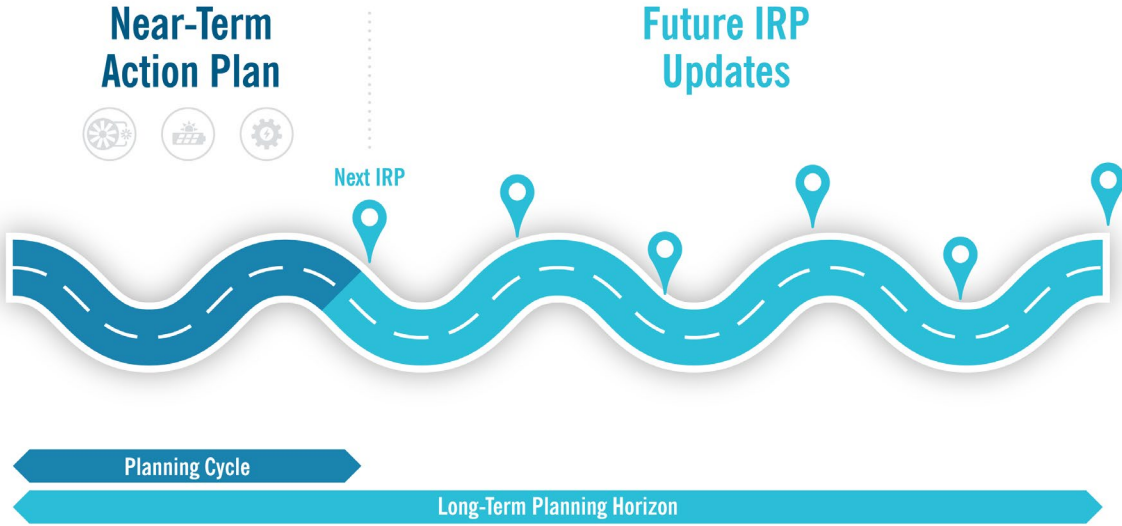
- Adds ~2 GW by 2040 to allow for continued economic development signings
- Informed by Mid-Stage Pipeline (approx. 60% reduction of Mid-Stage Pipeline w/ linear growth)

High Case

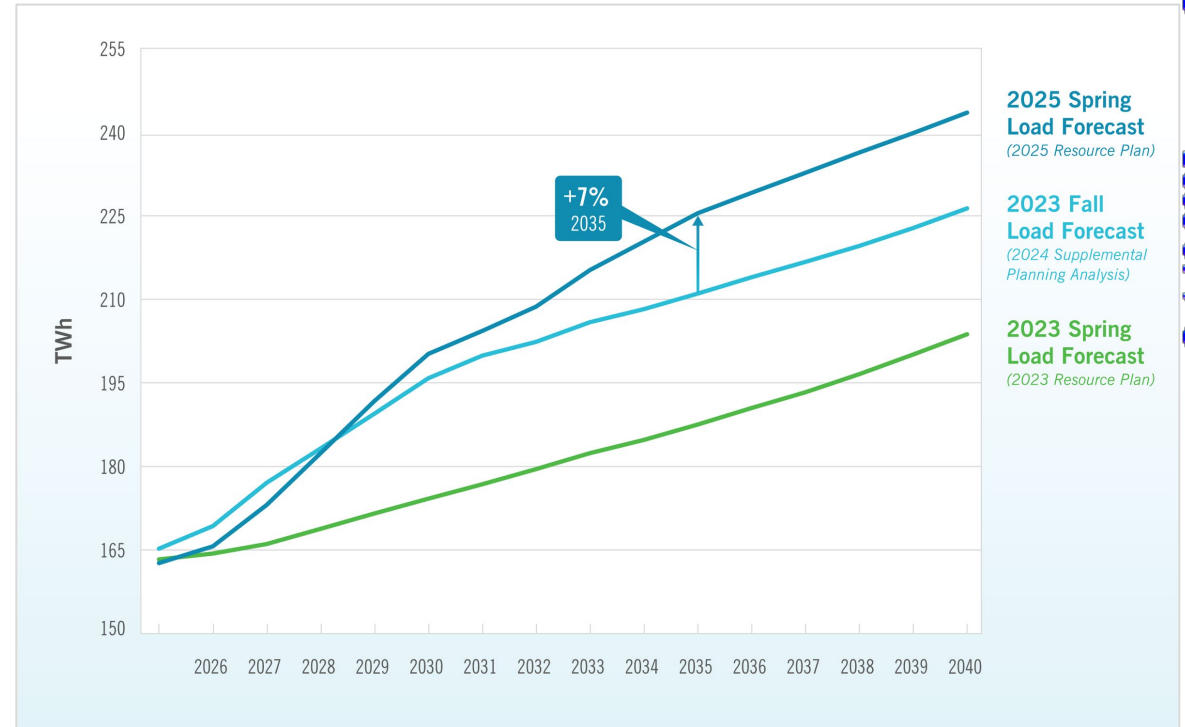
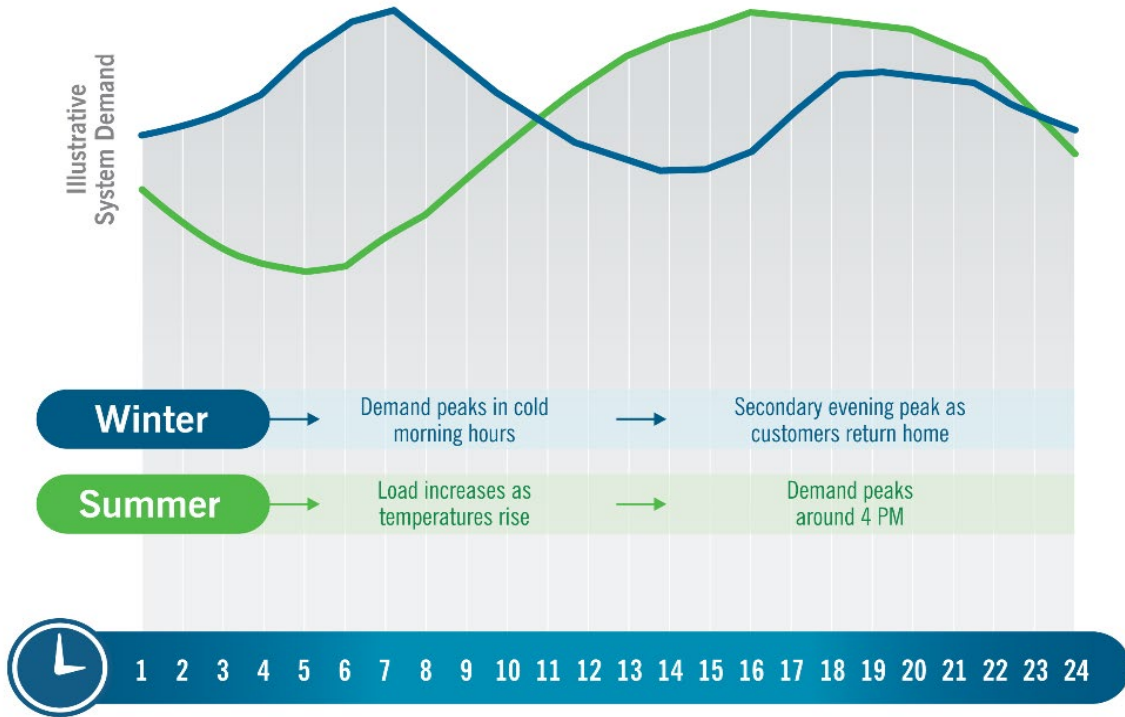
ESA, LA, Late-Stage Pipeline and Mid-Stage Pipeline

- ESA, LA, Late-Stage Pipeline – Full Load
- Mid-Stage Pipeline – 50% reduction

Resource Planning | Check and Adjust

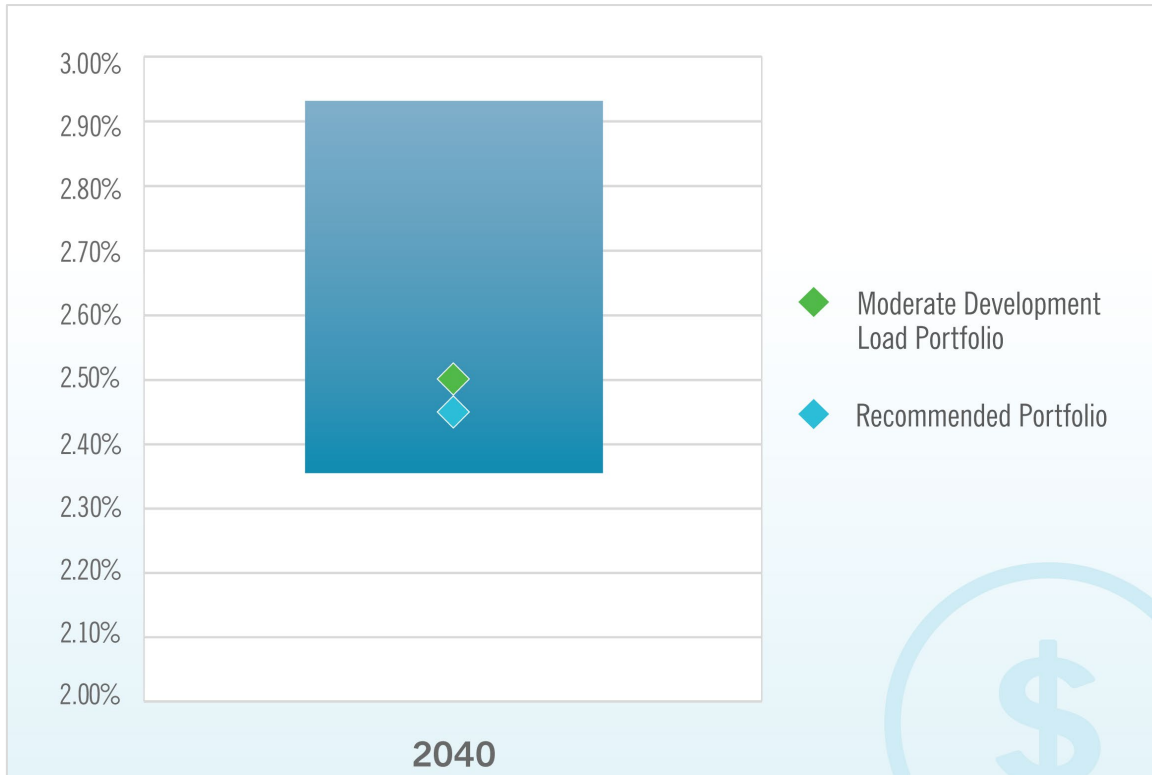


Load Flexibility Opportunities and Limitation



Load Forecast Scenarios | Customer Bill Impact Analysis

2025 CPIRP – Customer Bill Impacts (Compound Annual Growth Rate)



*Incremental growth from economic development **does not** result in higher bill impacts*

Customer Bill Impact Analysis:

- Assesses impacts to customer bills based on a particular resource plan, inclusive of both the cost of new resources and operating the system
- Directional and illustrative for comparative analytical purposes and not “all-in” representation of customer bills

Portfolios Descriptions:

- Recommended Portfolio – Includes more economic development load and more resources to meet higher overall total system need (2025 CPIRP NTAP resources)
- Moderate Development Load Portfolio – Includes less economic development load and fewer resources to meet lower overall total system need



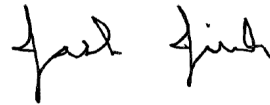
Conclusion



CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC and Duke Energy Progress, LLC's Technical Conference Presentation Materials, in Docket No. E-100, Sub 208, has been served by electronic mail, hand delivery, or by depositing a copy in the United States mail, postage prepaid, properly addressed to parties of record.

This the 10th day of October, 2025.



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ATTORNEY FOR DUKE ENERGY
CAROLINAS, LLC AND
DUKE ENERGY PROGRESS, LLC