



TAG Meeting

January 18, 2023

Webinar
Final



TAG Meeting Agenda

- 1. Administrative Items – Rich Wodyka**
- 2. 2022 Collaborative Transmission Plan Study Report – Sid DeSouza and Bob Pierce**
- 3. 2023 Study Scope Discussion – Bill Quaintance**
- 4. Regional Studies Update – Bob Pierce**
- 5. 2022 TAG Work Plan Update and 2023 TAG Work Plan Preview – Rich Wodyka**
- 6. TAG Open Forum – Rich Wodyka**

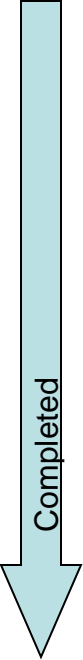


2022 Collaborative Plan Study Report

Sid DeSouza - Duke Energy Progress
Bob Pierce - Duke Energy Carolinas



Study Process Steps

- 
- A large, light blue downward-pointing arrow is positioned to the left of the list. The word "Completed" is written vertically inside the arrow, indicating that all eight steps of the study process have been finished.
- 1. Assumptions Selected**
 - 2. Study Criteria Established**
 - 3. Study Methodologies Selected**
 - 4. Models and Cases Developed**
 - 5. Technical Analysis Performed**
 - 6. Problems Identified and Solutions Developed**
 - 7. Collaborative Plan Projects Selected**
 - 8. Study Report Prepared**



Assumptions Selected

- **Study Years for reliability analyses:**
 - **Near-term: 2027 Summer, 2027/2028 Winter**
 - **Longer-term: 2032/2033 Winter**



Study Criteria Established

- **NERC Reliability Standards**
 - Current standards for base study screening
 - Current SERC Requirements
- **Individual company criteria**



Study Methodologies Selected

- **Thermal Power Flow Analysis**
- **Each system (DEC and DEP) will be tested for impact of other system's contingencies**



Models and Cases Developed

- **Annual Reliability Study**
 - **Near-term: 2027 Summer, 2027/2028 Winter**
 - **Longer-term: 2032/2033 Winter**
- **Local Economic Study**
 - **Evaluate a total of 14 hypothetical transfers in 2032/33 Winter**
- **Public Policy Study**
 - **The study request could not be finalized in time to complete the analysis in 2022.**
 - **Supplemental study for public policy projects was performed for public staff.**



Technical Analysis

- **Conduct thermal screenings of the 2027S, 2027/28W and 2032/33W base cases**
- **Conduct thermal screenings for transfer scenarios in 2032/33W**



Problems Identified and Solutions Developed

- **Identify limitations and develop potential alternative solutions for further testing and evaluation**
- **Estimate project costs and schedule**



Resource Supply Options for Hypothetical Transfer Scenarios

ID	Resource From	Sink	Test Level (MW)
1	PJM	DUK	1,000
2	SOCO	DUK	1,000
3	CPLE	DUK	1,000
4	TVA	DUK	1,000
5	PJM	CPLE	1,000
6	DUK	CPLE	1,000
7	DUK	SOCO	1,000
8	PJM	DUK/CPLE	1,000/ 1,000
9	DUK/CPLE	PJM	1,000/ 1,000
10	CPLE	PJM	1,000
11	DUK	PJM	1,000
12	DUK	TVA	1,000
13	DUK	SCPSA	750
14	PJM	SCPSA	500



Resource Supply Options for Hypothetical Transfer Scenarios

- **Each of these transfers were examined individually, and not in combination with other transfers.**
- **Where issues requiring solutions within the applicable planning window were identified, alternative solutions were discussed, and a primary set of solutions was determined.**
- **All issues identified were either previously identified by the base reliability studies or can be mitigated with ancillary equipment upgrades.**



2022 Transmission Plan Reliability Results

The 2022 Plan, relative to the 2021 Plan, includes no new reliability projects for DEP and 9 new DEC reliability projects

<u>Project ID</u>	<u>DEC Project Name</u>
0061	Wateree 100 kV Line (Great Falls-Wateree), Upgrade
0062	Silas 100 kV Line (Mocksville-Idols Tap), Upgrade
0063	North Greenville 230 kV Tie Station, Upgrade
0064	Wylie 100 kV Line (Wylie-Arrowood Retail), Upgrade
0065	Morning Star 230 kV Tie Station, Upgrade
0066	Davidson River 100 kV Line (North Greenville-Marietta), Upgrade
0067	Harley 100 kV Line (Tiger-Campobello), Upgrade
0068	Sandy Ridge 230 kV Line (Newport-Morning Star), Upgrade
0069	Skybrook 100 kV Line (Winecoff-Eastfield Retail), Upgrade

DEC New Reliability Projects Total - \$255M



2022 Transmission Plan Reliability Results

There are revised in-service dates, estimated cost changes, and/or scope changes for the following DEC and DEP projects in the 2022 Plan relative to the 2021 Plan:

<u>Project ID</u>	<u>Project Name</u>	<u>Cost Change</u>	<u>Timeline Change</u>
0039	Asheboro–Asheboro East 115 kV North Line, Reconductor	↑	»»»
0046	Windmere 100 kV Line (Dan River–Sadler), Construct	↓	»»»
0048	Wilkes 230/100 kV Tie Station, Construct	↓	»»»
0050	Craggy–Enka 230 kV Line, Construct	↑	«««
0051	Cokesbury 100 kV Line (Coronaca–Hodges), Upgrade	↑	«««
0052	South Point 100 kV Switching Station, Construct	↓	»»»



2022 Transmission Plan Reliability Results

There are revised in-service dates, estimated cost changes, and/or scope changes for the following DEC and DEP projects in the 2022 Plan relative to the 2021 Plan:

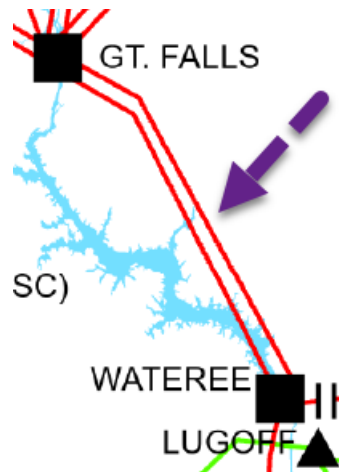
<u>Project ID</u>	<u>Project Name</u>	<u>Cost Change</u>	<u>Timeline Change</u>
0053	Wateree Hydro Plant, Upgrade	↑	◀◀◀
0054	Carthage 230/115 kV Substation, Construct	↑	—
0056	Castle Hayne–Folkstone 115 kV Line, Rebuild	↑	◀◀◀
0057	Holly Ridge North 115 kV Switching Station, Construct	↓	—
0059	Monroe 100 kV Line (Lancaster-Monroe), Upgrade	↓	▶▶▶
0060	Westport 230 kV Line (McGuire-Marshall), Upgrade	↑	—



New Reliability Projects in 2022 Plan

DEC Wateree 100 kV Line (Great Falls-Wateree), Upgrade – scheduled for December 2023

- **NERC Category P2/P3/P5/P7 violation**
- **Problem:** Loss of either circuit can overload the remaining circuit.
- **Solution:** Six-wire existing double circuit 100 kV line.





New Reliability Projects in 2022 Plan

DEC Silas 100 kV Line (Mocksville-Idols Tap), Upgrade – *scheduled for June 2025*

- **NERC Category P2/P4/P5/P6/P7 violation**
- **Problem:** This line may become overloaded for various local transmission contingencies.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.

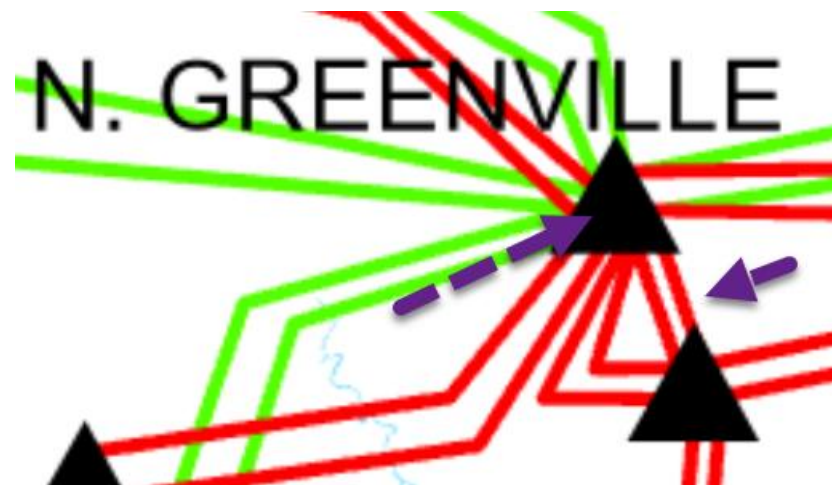




New Reliability Projects in 2022 Plan

DEC North Greenville 230 kV Tie Station, Upgrade – *scheduled for December 2026*

- **NERC Category P5 violation**
- **Problem:** Asset Management identified the need to replace transmission equipment, and TPL studies indicated lines that may overload under contingency.
- **Solution:** This project consists of installing a 230 kV series bus junction breaker, replacing 10 breakers, replacing a 230/100/44 kV transformer, and upgrading ancillary equipment on a local 100 kV line.

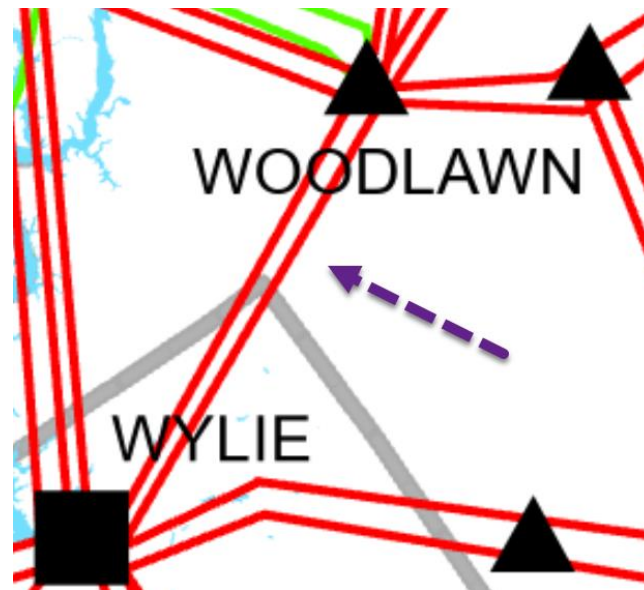




New Reliability Projects in 2022 Plan

DEC Wylie 100 kV Line (Wylie-Arrowood Retail), Upgrade – scheduled for December 2026

- **NERC Category P2/P3/P4/P5/P6 violation**
- **Problem:** Local transmission contingencies involving facilities associated with Allen Steam Station, Newport Tie and/or Woodlawn Tie may overload this line.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.





New Reliability Projects in 2022 Plan

DEC Morning Star 230 kV Tie Station, Upgrade – *scheduled for June 2028*

- **NERC Category P2/P4/P6 violation**
- **Problem:** Various contingencies involving facilities at Morning Star Tie Station may cause one or more of the transformers to become overloaded.
- **Solution:** Replace existing 230/100/44 kV transformers with larger transformers and convert the station to breaker-and-a-half.

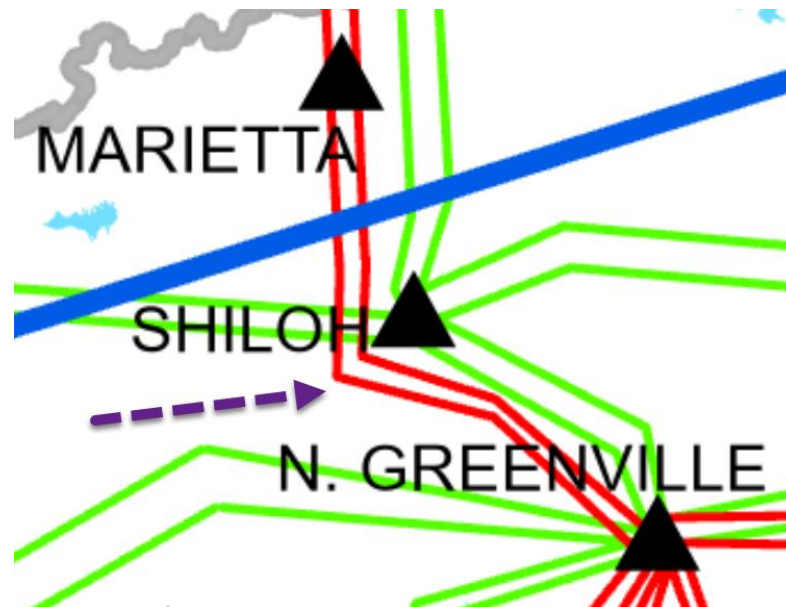




New Reliability Projects in 2022 Plan

DEC Davidson River 100 kV Line (North Greenville-Marietta), Upgrade – Conceptual

- **NERC Category P5/P6/P7 violation**
- **Problem:** This line may become overloaded due to contingencies of facilities associated with Shiloh Switching Station.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.

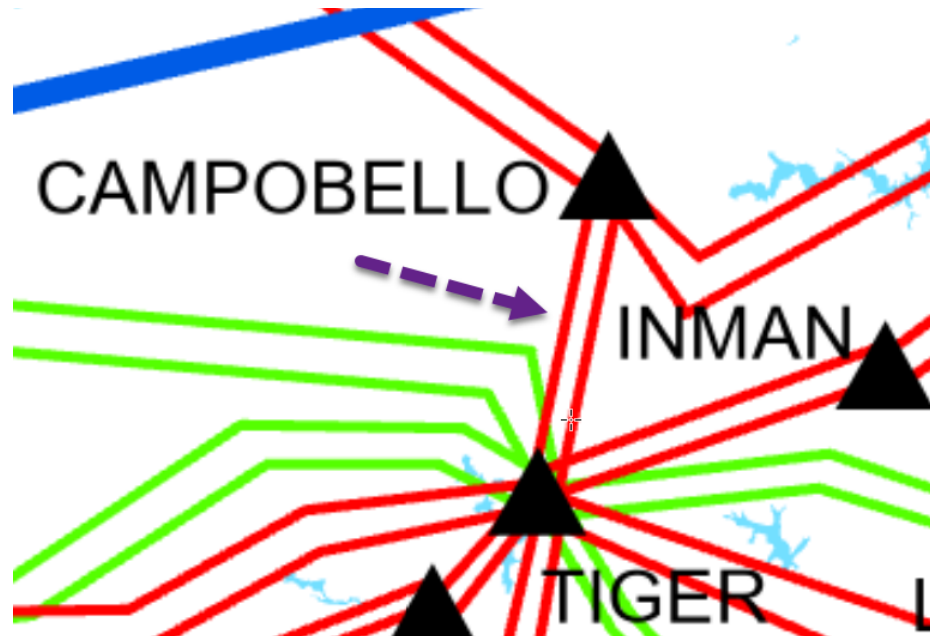




New Reliability Projects in 2022 Plan

DEC Harley 100 kV Line (Tiger-Campobello), Upgrade – Conceptual

- **NERC Category P2/P3/P6/P7 violation**
- **Problem:** Loss of local transmission facilities may overload the 100 kV line.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.





New Reliability Projects in 2022 Plan

DEC Skybrook 100 kV Line (Winecoff-Eastfield Retail), Upgrade – Conceptual

- **NERC Category P6/P7 violation**
- **Problem:** Loss of local transmission facilities may overload this line.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.





Supplemental Study for Public Policy Projects – Criteria and Scope

Criteria

- **Applied with selection of past generator interconnection requests**
- **For DEC, only one request was considered per 44kV circuit due to the significant impact that would result from two or more requests being considered for the same circuit**
- **For DEC and DEP, no solar interconnection requests greater than 175 MW were included in the study due to the localized impact that these projects have on network upgrades needed for interconnection**

Scope

- **Starting with the Transitional Cluster Study generator interconnection requests, go back just far enough in history to get to at least 5.4 GW of solar requesting interconnection meeting the criteria above and a 40/60 DEC/DEP split**
 - **41 projects in DEC representing 1,937 MW were studied**
 - **45 projects in DEP representing 3,527 MW were studied**
- **The study was performed as a cluster-type study with results reported in a similar manner to the Transitional Cluster Study**



2022 Transmission Plan Public Policy Results

The 2022 Plan includes 4 new DEC projects resulting from the Local Public Policy Planning Process:

<u>Project ID</u>	<u>DEC Projects</u>
0080	Lee 100 kV Line (Lee-Shady Grove), Upgrade
0081	Piedmont 100 kV Line (Lee-Shady Grove), Upgrade
0082	Newberry 115 kV Line (Bush River-DESC), Upgrade
0083	Clinton 100 kV Line (Bush River-Laurens), Upgrade

DEC New Public Policy Projects Total - \$241M



2022 Transmission Plan Public Policy Results

The 2022 Plan includes 10 new DEP projects resulting from the Local Public Policy Planning Process:

<u>Project ID</u>	<u>DEP Projects</u>
0070	Cape Fear – West End 230 kV Line, Rebuild
0071	Erwin – Fayetteville East 230 kV Line, Rebuild
0072	Erwin – Fayetteville 115 kV Line, Rebuild
0073	Fayetteville – Fayetteville Dupont 115 kV Line, Rebuild 3.2-mile section
0074	Milburnie 230 kV Substation, Upgrade
0075	Weatherspoon – Marion 115 kV Line, Upgrade
0076	Camden Junction – Wateree 115 kV Line, Rebuild
0077	Robinson – Rockingham 115 kV Line, Rebuild
0078	Robinson – Rockingham 230 kV Line, Rebuild
0079	Fayetteville – Fayetteville Dupont 115 kV Line, Rebuild 4.9-mile section

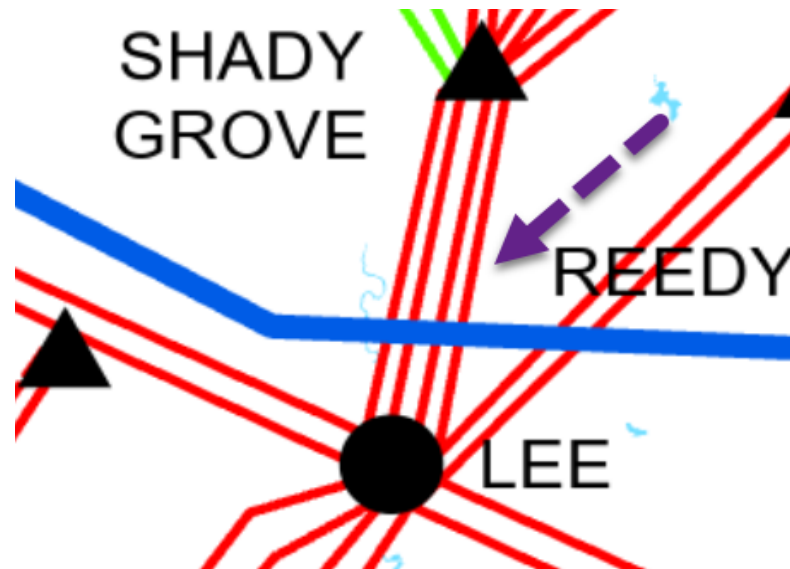
DEP New Public Policy Projects Total - \$313M



New Public Policy Projects in 2022 Plan

DEC Lee 100 kV Line (Lee-Shady Grove), Upgrade – *scheduled for December 2026*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.

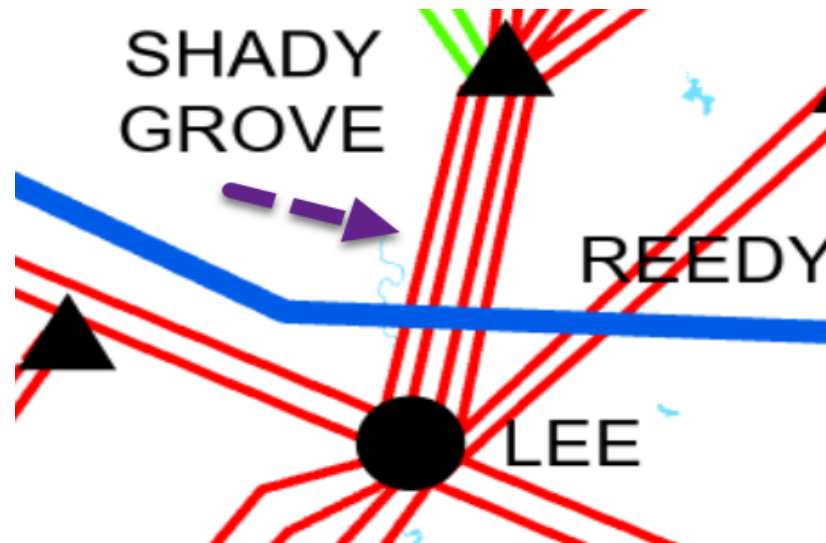




New Public Policy Projects in 2022 Plan

DEC Piedmont 100 kV Line (Lee-Shady Grove), Upgrade – scheduled for December 2026

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.

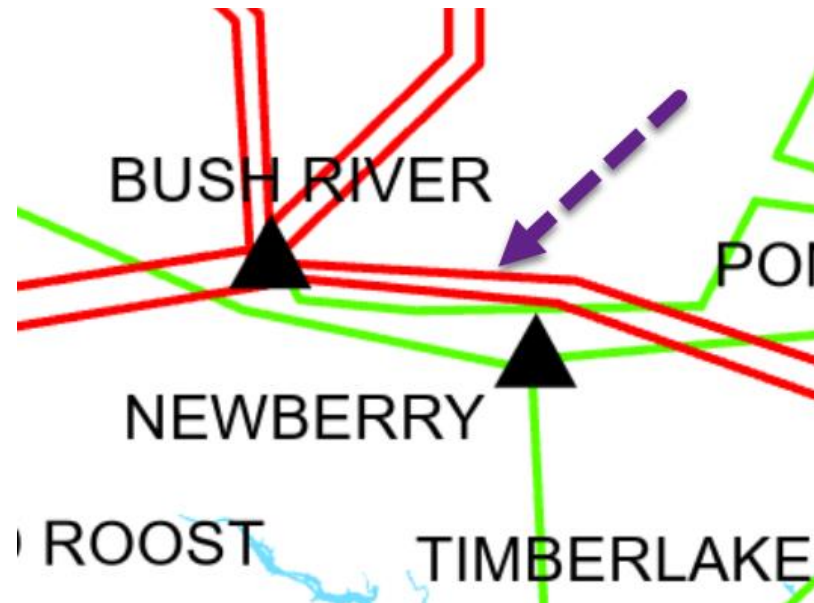




New Public Policy Projects in 2022 Plan

DEC Newberry 115 kV Line (Bush River-DESC), Upgrade – scheduled for December 2026

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 100 kV line with higher capacity conductors.

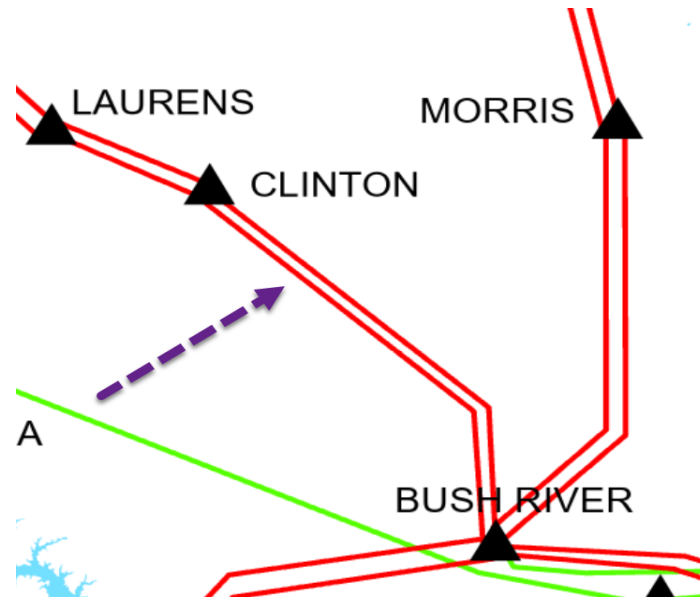




New Public Policy Projects in 2022 Plan

DEC Clinton 100 kV Line (Bush River-Laurens), Upgrade – *scheduled for December 2026*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 100 kV line with higher capacity conductors..

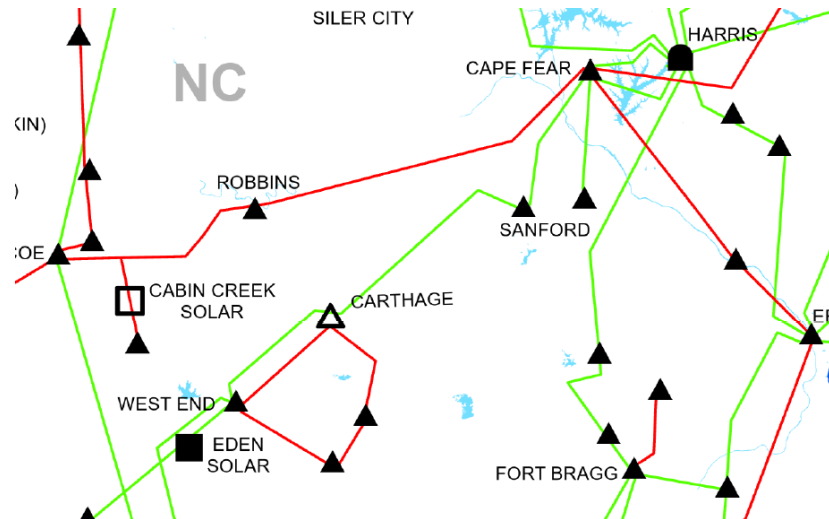




New Public Policy Projects in 2022 Plan

DEP Cape Fear – West End 230 kV Line, Rebuild – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 230 kV line.

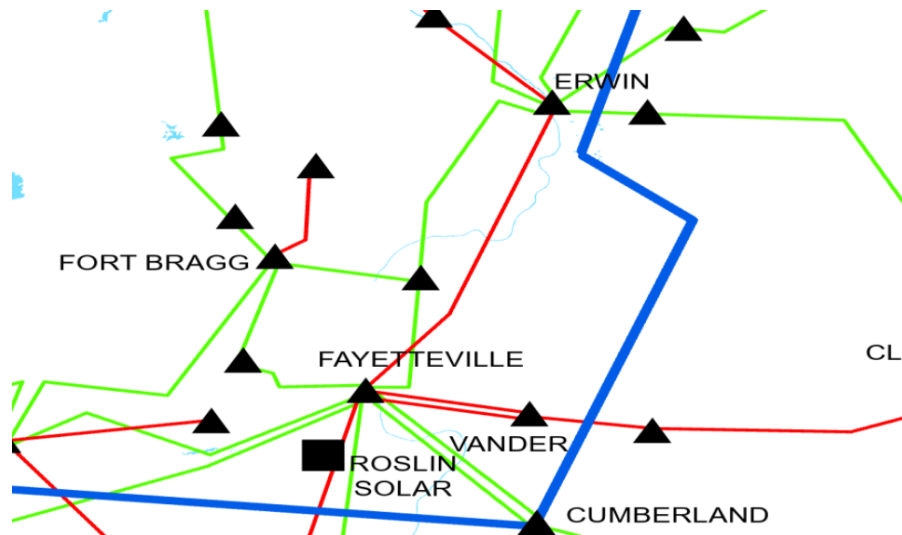




New Public Policy Projects in 2022 Plan

DEP Erwin – Fayetteville East 230 kV Line, Rebuild – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 230 kV line.

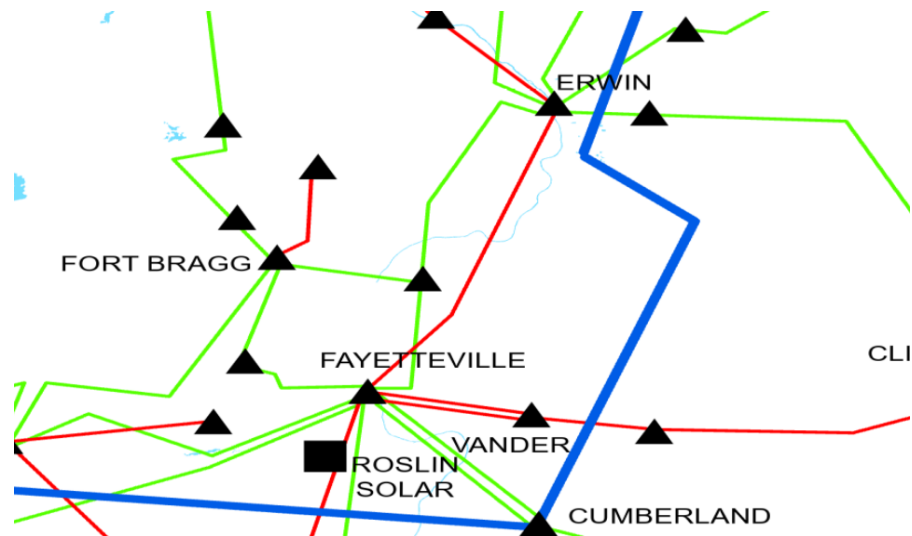




New Public Policy Projects in 2022 Plan

DEP Erwin – Fayetteville 115 kV Line, Rebuild – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 115 kV line.

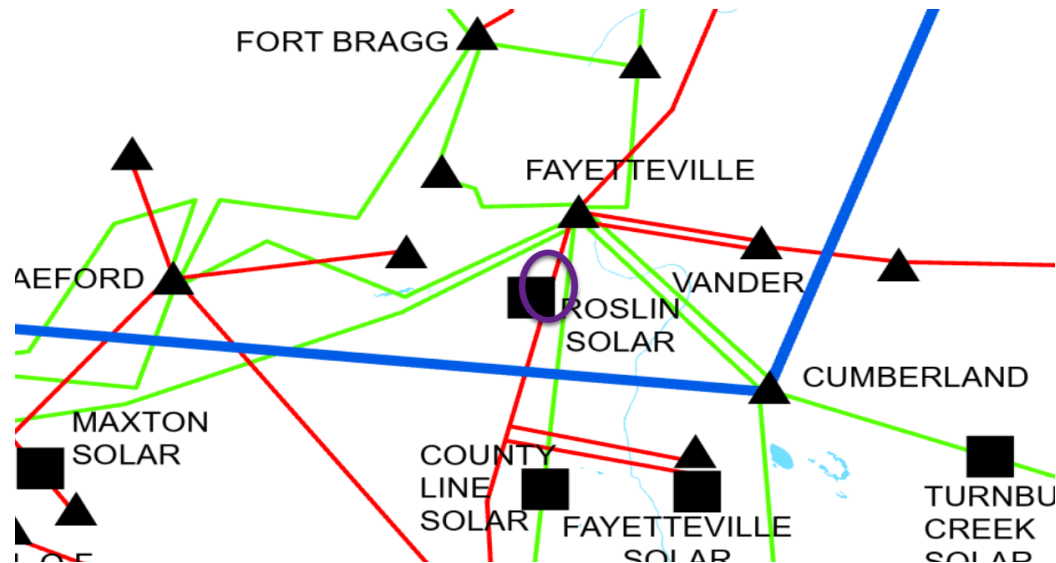




New Public Policy Projects in 2022 Plan

DEP Fayetteville – Fayetteville Dupont 115 kV Line, Rebuild 3.2 miles – scheduled for 6/1/2025

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild Hope Mills Church St – Roslin section of 115 kV line.

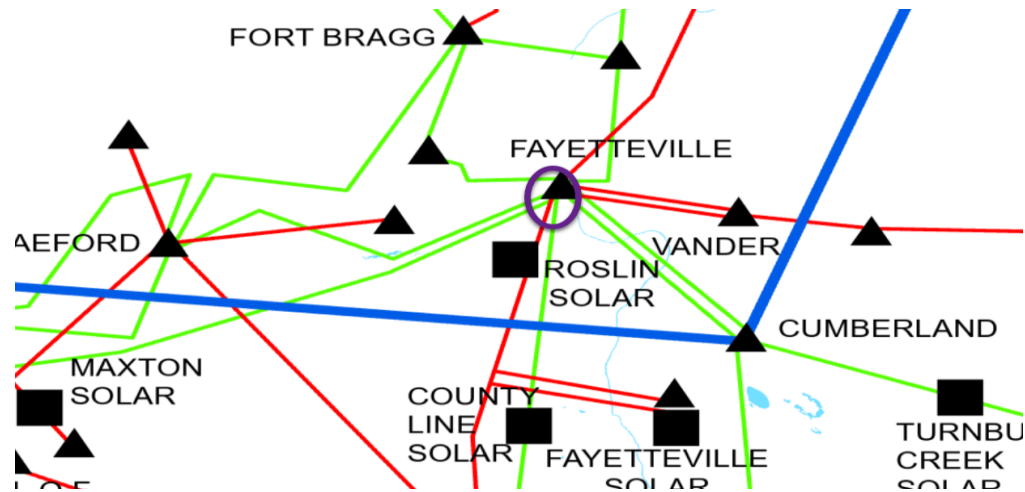




New Public Policy Projects in 2022 Plan

DEP Fayetteville – Fayetteville Dupont 115 kV Line, Rebuild 4.9 miles – scheduled for 6/1/2025

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild Fayetteville - Hope Mills Church St section of 115 kV line.

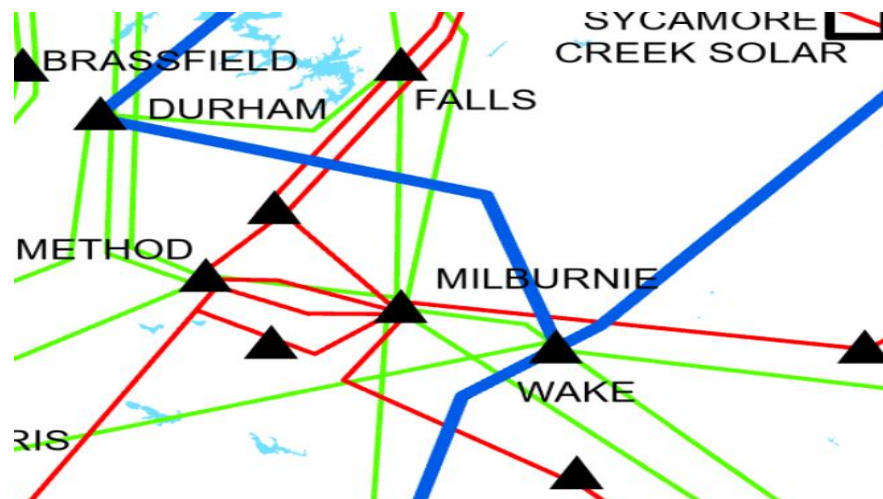




New Public Policy Projects in 2022 Plan

DEP Milburnie 230 kV Substation, Upgrade – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Add redundant bus protection.

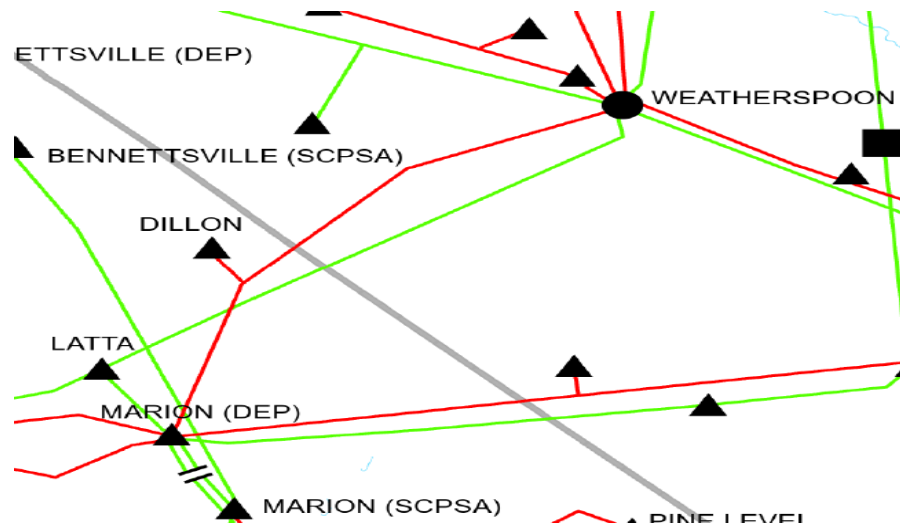




New Public Policy Projects in 2022 Plan

DEP Weatherspoon – Marion 115 kV Line, Upgrade – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Raise 115 kV line.

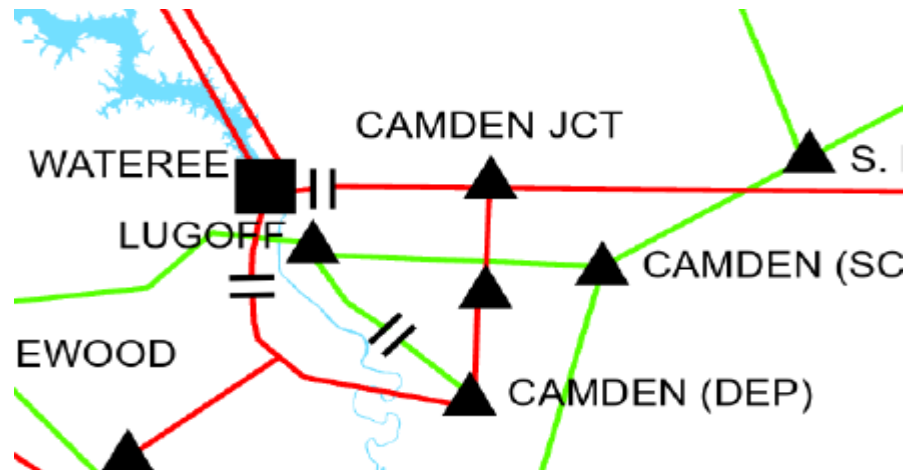




New Public Policy Projects in 2022 Plan

DEP Camden Junction – Wateree 115 kV Line, Rebuild – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 115 kV line.

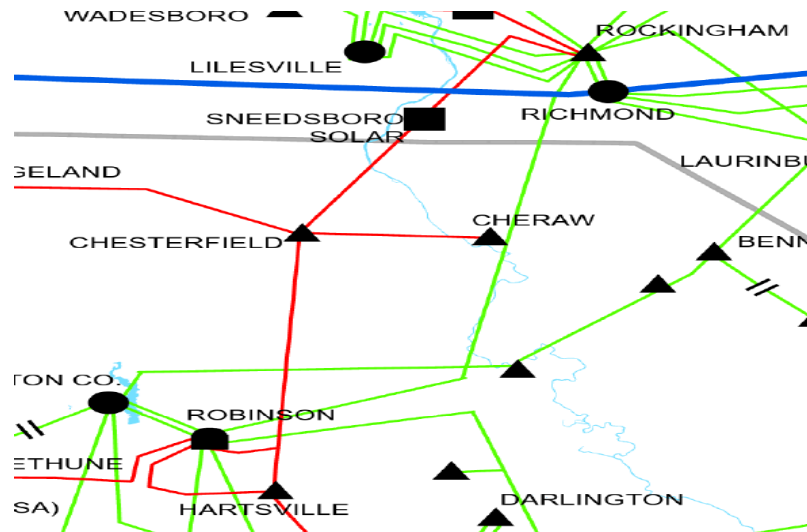




New Public Policy Projects in 2022 Plan

DEP Robinson– Rockingham 115 kV Line, Rebuild – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 115 kV line.

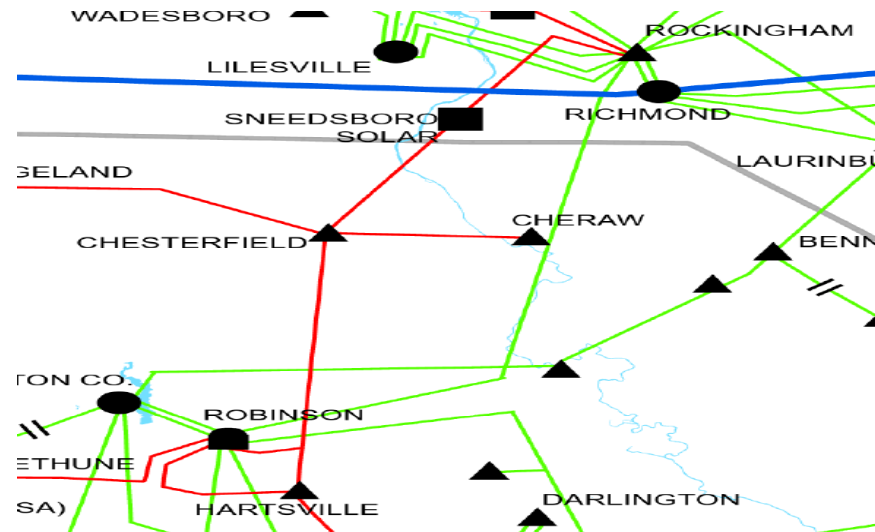




New Public Policy Projects in 2022 Plan

DEP Robinson– Rockingham 230 kV Line, Rebuild – *scheduled for 6/1/2025*

- **Proactive Solar Upgrade**
- **Problem:** This upgrade is needed for future solar generation proposed for compliance with the Carbon Plan goals.
- **Solution:** Rebuild 230 kV line.





Comparison to Previous Collaborative Transmission Plan

	2021 Original Plan	2021 Plan Mid-year Update	2022 Reliability Projects Only	2022 Plan Total
Number of projects with an estimated cost of \$10 million or more each	16	16	24	38
Total estimated cost of Plan	\$694 M	\$748 M	\$936 M	\$1.49 B



Study Report Prepared

- **TAG is requested to provide any input to the OSC on the 2022 Collaborative Transmission Plan Study Report.**
- **Provide input by February 8, 2023 to Rich Wodyka (rich.wodyka@gmail.com)**



Questions ?





2023 Study Scope Discussion

Bill Quaintance - Duke Energy Progress



Current 2022 Study

- **Base reliability case analysis – 2027 Summer and 2027-2028 Winter and 2032-33 Winter**
 - **An “All Firm Transmission” Case(s) were developed which considered all confirmed long term firm transmission reservations with roll-over rights applicable to the study year(s)**
 - **DEC and DEP generation down cases were created from the common Base Case**



2023 Proposed Study Scope

- **Base reliability case analysis – 2028 Summer and 2028-2029 Winter and 2033 Summer**
 - **An “All Firm Transmission” Case(s) will be developed which will consider all confirmed long term firm transmission reservations with roll-over rights applicable to the study year(s)**
 - **DEC and DEP generation down cases will be created from the common Base Case**
- **Alternate scenarios/sensitivities – 2033 Summer**
- **Study scope to be determined**



Past Studies' Alternate Scenarios

- **Hypothetical Imports/Exports re-evaluated every other year (last performed in 2022)**
 - 1000 MW transfers typical
- **Hypothetical NC Generation**
 - Natural Gas
 - Offshore Wind
- **High Renewables**
- **Retirement of Coal Units**



Local Economic Study Requests

- **Propose economic hypothetical scenarios to be studied as part of the transmission planning process**
- **Requests can include in, out, and through transmission service**
- **Official TAG request was distributed on January 3, 2023**



Public Policy Study Requests

- **Provide input on public policies that may drive the need for local transmission studies**
- **Official TAG request was distributed on January 3, 2023**



TAG Input Request

- **TAG is requested to provide any additional input to the OSC on the 2023 Study Scope, any additional suggested study scenarios, as well as input on Local Economic Study Requests and Public Policy Study Requests.**
- **Stakeholder feedback is needed!**
- **Provide input by **February 8, 2023** to Rich Wodyka (rich.wodyka@gmail.com)**



Questions ?





Regional Studies Reports

Bob Pierce

Duke Energy Carolinas



SERC Long Term Working Group Update



SERC Long Term Working Group

- Begin coordinating 2023 model development in late January
- Building 2022 series MMWG cases
 - Steady state cases complete
 - Working on Stability cases



SERTP



SERTP

- 4th Quarter Meeting (Webex) on December 14th
@ 10 AM
- Provided feedback to DOE on National
Transmission Planning Study preliminary
results



<http://www.southeasternrtp.com/>



EIPC



EIPC

- Continues interaction with DOE on the National Transmission Needs Study (triennial congestion study) and the National Transmission Plan Study



DOE

- National Transmission Needs Study
- National Transmission Plan Study
- Grid Deployment Office
 - Resilience and Grid Innovation
 - Smart Grid
 - Clean Nuclear
 - Transmission Facilitation
 - Financing



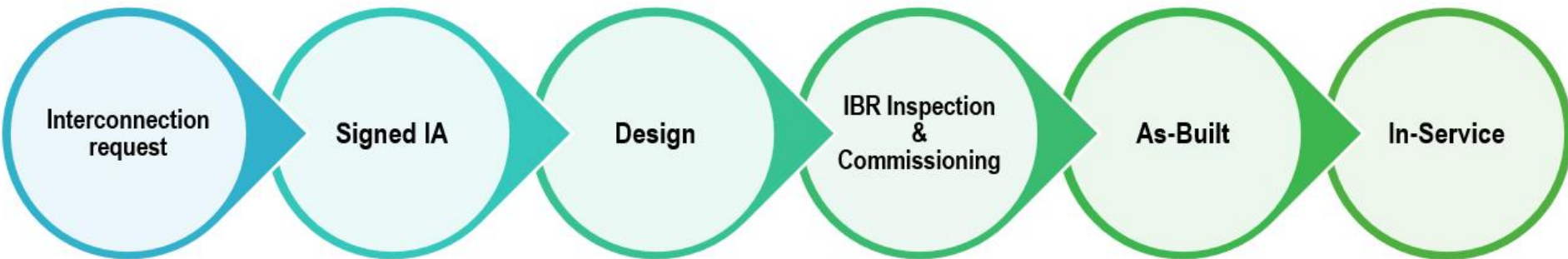
NERC



NERC

- 2022 Odessa Report Review
- Duke Energy Plans

T-Connected IBR Interconnection - Opportunities



IBR's Capability & Performance requirements

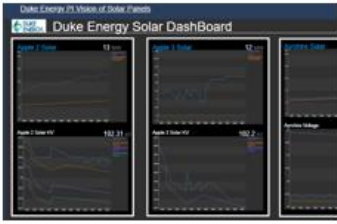
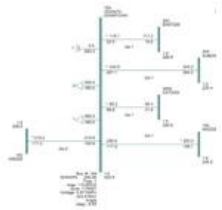
Requirement Verification & Validation milestones

IBR Plant Capability & Performance Review

IBR Plant Inspection & Commissioning (Transmission Grid Requirements)

As-Built's Power System Model

IBR Operational Performance



Source: NERC, 2017-2022

What is Capability & Performance Requirements Review?

■ Capability and Performance Requirements (CPR) Review

- Formal and documented review for critical stage of interconnection
- A guided review with the System Planning/Systems Ops/P&C covering the **Key Discussion Points**
 - Coordination Document
 - Inverter & PPC Parametric model
 - Power System Model
- Collaborative discussion with Duke Transmission and Developer to ensure IBR plant design meets requirements
- It will provide a good baseline for Inspection & Commissioning phase of the project.





Questions ?





2022 TAG Work Plan

Rich Wodyka
Administrator



January - February – March

➤ 2021 Study Update

- ✓ Receive Final 2021 Collaborative Transmission Plan Report
- ✓ Receive Draft 2021 Public Policy Study Report
 - *TAG provide input to the OSC on Public Policy Study results*

➤ 2022 Study – Finalize Study Scope of Work

- ✓ Receive request from OSC to provide input on proposed Local Economic Study scenarios and interfaces for study
 - *TAG provide input to the OSC on proposed Local Economic Study scenarios and interfaces for study*
- ✓ Receive request from OSC to provide input in identifying any public policies that are driving the need for local transmission
 - *TAG provide input to the OSC in identifying any public policies that are driving the need for local transmission for study*
- ✓ Receive final 2022 Reliability Study Scope for comment
 - *TAG review and provide comments to the OSC on the final 2022 Study Scope*



January - February – March

First Quarter TAG Meeting – March 28th

- **2021 Public Policy Study Analysis**
 - ✓ Receive report on and discuss the final draft of the 2021 Public Policy Study Report
- **2022 Study Update**
 - ✓ Receive a report on the Local Economic Study scope and any public policy scenarios that are driving the need for local transmission for study
 - ✓ Receive a progress report on the Reliability Planning study activities and the final 2022 Study Scope



April - May – June

Second Quarter TAG Meeting – June 27

➤ 2022 Study Update

- ✓ Receive a progress report on study activities**

- ✓ Receive update status of the upgrades in the 2021 Collaborative Plan**

- ✓ TAG is invited to provide any additional comments or questions to the OSC on the 2022 Mid-Year Update to the 2021 Collaborative Transmission Plan and proposed RZEP Projects. Provide input by July 6, 2022 to Rich Wodyka (rich.wodyka@gmail.com)**



July - August – September

Third Quarter TAG Meeting – October 18

➤ 2022 Study Update

- ✓ Receive a progress report on the study activities and Preliminary Reliability Study Results
- ✓ TAG is requested to provide feedback to the OSC on the technical analysis performed, the problems identified as well as proposing alternative solutions to the problems identified. Provide input by **November 4, 2022** to Rich Wodyka (rich.wodyka@gmail.com)



October - November - December

Fourth Quarter TAG Meeting – moved *January 18, 2023*

➤ **2022 Study Update**

- ✓ TAG will receive feedback from the OSC on any alternative solutions that were proposed by TAG members
- ✓ Receive and discuss Final DRAFT of the 2022 Collaborative Transmission Plan Report
- ✓ TAG is invited to provide any additional comments or questions to the OSC on the 2022 Collaborative Transmission Plan. Provide input by **February 8, 2023** to Rich Wodyka (rich.wodyka@gmail.com)

➤ **2023 Study Scope of Work**

- ✓ Discuss potential study scope scenarios for 2023 studies



Questions ?





2023 TAG Work Plan

Rich Wodyka
Administrator



2023 NCTPC Overview Schedule

Reliability Planning Process

- Evaluate current reliability problems and transmission upgrade plans
 - Perform analysis, identify problems, and develop solutions
 - Review Reliability Study Results

Local Economic Planning Process

- Propose and select Local Economic Studies and Public Policy Study scenarios
 - Perform analysis, identify problems, and develop solutions
 - Review Local Economic Study and Public Policy Results

Coordinated Plan Development

- Combine Reliability and Local Economic Study and Public Policy Results
 - OSC publishes DRAFT Plan
 - TAG review and comment

TAG Meetings



1st Quarter

2nd Quarter

3rd Quarter

4th Quarter

75



January - February – March

Fourth Quarter TAG Meeting – **January 18, 2023**

➤ 2022 Study Update

- ✓ Receive Final DRAFT of 2022 Collaborative Transmission Plan Report

➤ TAG is invited to provide any additional comments or questions to the OSC on the 2022 Collaborative Transmission Plan.

- Provide input by **February 8, 2023** to Rich Wodyka (rich.wodyka@gmail.com)



January - February – March

➤ 2023 Study – Finalize Study Scope of Work

- ✓ Receive request from OSC to provide input on proposed Local Economic Study scenarios and interfaces for study (Request sent on January 3rd)
 - TAG requested to provide input to the OSC on proposed Local Economic Study scenarios and interfaces for study
 - Provide input by **February 8, 2023** to Rich Wodyka (rich.wodyka@gmail.com)
- ✓ Receive request from OSC to provide input in identifying any public policies that are driving the need for local transmission (Request sent on January 3rd)
 - TAG requested to provide input to the OSC in identifying any public policies that are driving the need for local transmission for study
 - Provide input by **February 8, 2023** to Rich Wodyka (rich.wodyka@gmail.com)
- Receive final 2023 Study Scope of Work for review and comment
 - TAG review and provide comments to the OSC on the final 2023 Study Scope of Work



January - February – March

➤ 2023 Study Update

- **Receive a report on the Final 2023 Study Scope of Work and any study scenarios that are driving the need for local transmission**
- **Receive a progress report on the 2023 Study Activities**

➤ *First Quarter TAG Meeting – March 15, 2023 (tentative)*



April - May – June

Second Quarter TAG Meeting – TBD

- **2023 Study Update**
 - **Receive a progress report on Study Activities**
 - **Receive update status of the upgrades in the 2022 Collaborative Plan**



July - August – September

Third Quarter TAG Meeting – TBD

➤ 2023 Study Update

- Receive a progress report on the Study Activities and Preliminary Study Results
- TAG is requested to provide feedback to the OSC on the technical analysis performed, the problems identified as well as proposing alternative solutions to the problems identified



October - November - December

Fourth Quarter TAG Meeting – TBD

➤ **2023 Study Update**

- **TAG will receive feedback from the OSC on any alternative solutions that were proposed by TAG members**
- **Receive and discuss Final DRAFT of the 2023 Collaborative Transmission Plan Report**

➤ **2024 Study Scope**

- **Discuss potential Study Scope scenarios for 2024 studies**



Questions ?





TAG
Open Forum Discussion

Comments or Questions?