Jack E. Jirak Deputy General Counsel

Mailing Address: NCRH 20 / P.O. Box 1551 Raleigh, NC 27602

> o: 919.546.3257 f: 919.546.2694

jack.jirak@duke-energy.com

January 3, 2023

### 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 Carolina, LLC and Duke Energy Progress, LLC's Presentation and Generating Unit Status Summary Document Docket Nos. M-100, Sub 163 and M-1, Sub 0

Dear Ms. Dunston:

Please find enclosed an electronic copy of the presentation provided today by Duke Energy Carolinas, LLC ("DEC") and Duke Energy Progress, LLC ("DEP" and, together with DEC, the "Companies") today at the North Carolina Utilities Commission's Staff Conference. In addition, please find enclosed a summary document regarding generating unit status for the period of December 23-24, 2022. Please note that such summary information reflects the most current data available. The Companies will continue to audit and verify the underlying data and will update any information if needed. Finally, unless otherwise directed by the Commission, the Companies' responses to Commissioner questions will be submitted in these dockets in a subsequent filing.

If you have any questions, please do not hesitate to contact me. Thank you for your attention to this matter.

Sincerely,

Jack E. Jirak

Enclosures

cc: Parties of Record

### **CERTIFICATE OF SERVICE**

I certify that a copy of Duke Energy Carolinas, LLC and Duke Energy Progress, LLC's Presentation and Generating Unit Status Summary Document, in Docket Nos. M-100, Sub 163 and M-1, Sub 0, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid, to parties of record.

This the 3<sup>rd</sup> day of January, 2023.

inf

Jack E. Jirak Deputy General Counsel Duke Energy Corporation P.O. Box 1551/NCRH 20 Raleigh, North Carolina 27602 (919) 546-3257 Jack.jirak@duke-energy.com

# North Carolina Utilities Commission | January 3, 2023 Briefing on Rolling Outages



# Duke Energy Carolinas | Event Timeline

DUKE
<b>ENERGY</b> ®

Saturday, 12/24 10:00 PM 2:00 AM 7:00 PM 12:00 AM Forecast showed that Customer demand in Still projected to meet Due to cold weather peak demand with Dan River derated we could meet peak DEC saw modest demand with more than divergence from 900 MW in resulting in a 360 MW loss forecast operating reserve

operating reserve

1500 MW in

Friday, 12/23

6:00 PM



First indication operating reserves were tighter than desired

Customer demand continued to outpace projections and showed we were down to 200 MW



Jan 04 2023

Duke Energy Carolinas | Event Timeline



400 MW of **firm purchase** supply and 250 MW of **non-firm purchase** supply was cut resulting in a loss of 650 MW of supply

2:00 AM - 6:00 AM

Several events caused DEC to go into negative operating reserves

**Third party that provides firm purchase generation** tripped resulting in a loss of 350 MW between 4:00 AM – 6:00 AM

Between these events we lost nearly **1000 MW** of resources



6:00 AM

By this time, Area Control Error (ACE) continued to grow more negative Load-shedding event triggered our load shedding protocols

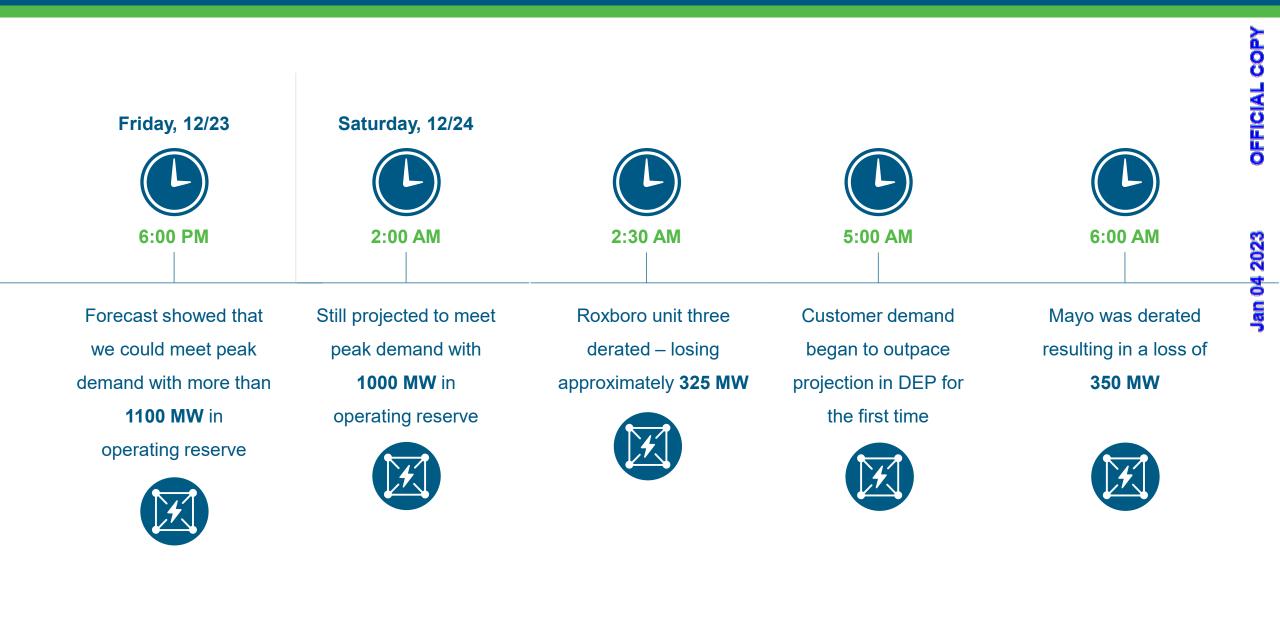
6:14 AM



Duke Energy Carolinas | Event Timeline

# Duke Energy Progress | Event Timeline





Jan 04 2023







6:00 AM

6:25 AM

Firm Purchase of 500 MW was lost

Lost 305 MW from a **DEP** network customer who lost **Firm Purchase** 

Several events caused DEP to go into negative reserves

with a loss of

around 1500 MW



All DEP resources are committed, and we enter Area Control

Error (ACE)



Load-shedding event triggered our load shedding protocols



Duke Energy Progress | Event Timeline

# **Transmission and Distribution Timeline**

6:20 AM	6:30 AM	6:45 AM	7:00 AM	7:05 AM
Initial load shed request	Requested load	Automated tool	Automated tool	Second request to
from the Energy	reductions were	worked properly for	worked properly for	reduce load an
Control Center (ECC)	initiated using the	400 MW reduction in	600 MW reduction in	additional 600 MW for
(400 MW for DEC and	automated Rotational	DEC and began	DEP – stopped	DEC and
600 MW for DEP)	Load Shed (RLS) tool	cycling through	responding before the	200 MW for DEP
1/1	1/1	15-minute outages	cycling process	1/1

<b>7:10 AM</b>	7:35 AM	8:00 AM	<b>E</b> 8:00 AM & 9:30 AM	<b>8:00 AM - 4:00 PM</b>	OFFICIAL COPY
Automated tool does not respond to additional load reduction commands, requiring manual load reduction activities	Energy Control Center (ECC) tripped two transmission lines to maintain integrity of the grid	Operators successfully completed required manual load reductions – total of 269 circuits out of service – began process to restore circuits manually	<section-header><text></text></section-header>	<section-header></section-header>	Jan 04 2023

Jan 04 20<mark>2</mark>3

# **Carolinas Customer and Media Communications Timeline**





7:38 AM 8:00 AM **Social Media** 

**Twitter and Facebook** posts announcing temporary rotating

outages

**Rotational Outages** Rotational outages ended



OFFICIAL COPY

Jan 04 20<mark>2</mark>3



6:25 AM

DEP

Rotational outages

initiated in DEP



**Rotational Program** 

**Rotational Load** 

Shedding tool

failed to respond



7:25 AM

**Outage Map Banner Alert** Explaining temporary

power outages lasting

15 to 30 minutes

(outage alerts were

turned off shortly after)



Jan 04 20<mark>2</mark>3



Interactive Voice Response Message explaining temporary power outages lasting 30 to 60 minutes



8:00 AM



8:00 AM



8:50 AM

Manual Operation Rotational outage manual restoration began (note during this timeframe rotational outages were continuing to occur on some circuits)



News Release Announced temporary rotating outages via media platforms



Call Center Interactive Voice Response Message explaining temporary power outages lasting

15 to 30 minutes



Outage Map Banner Alert Explaining temporary power outages lasting 30 to 60 minutes



ICIAL COPY

				OFFI
	12:45 PM	1:11 PM	2:10 PM	
Duke Energy	Social Media	Duke Energy	Outage Map	Jan 04 2023
Mobile App	Twitter and Facebook	Website	Banner Alert	Jan
ws banner update	post updates on power	Global Alert banner	Explaining temporary	
aining emergency	restoration	update explaining	power outages were	
ower outages in		emergency power	deployed and in the	
progress		outages in progress	process of being	
			restored	
The second secon	ĸ	Al Market Research Resear	Que	

Managing Winter's Higher Bills

**Duke Energy** Website News banner update explaining emergency power outages in progress

11:15 AM

**Duke Ene Mobile A** News banner explaining eme power outag progres

\$:

Billin

Ho If yo Ene

\*

Emergency power outages in progress The extreme cold has placed an unusual strain on the energy grid. These brief, temporary outages are necessary to protect the system.

**Jan 04 2023** 

3:31 PM	3:45 PM	4:00 PM	4:27 PM	5:56 PM
News Release	Social Media	<b>Rotational Outages</b>	Duke Energy	Social Media
Shared power	Twitter and Facebook	Rotational outages	Website	Asking customers to
restoration and	post updates on	manually restored	Global Alert banner	continue energy
continued energy	power restoration and		update explaining	conservation efforts and
conservation request	request for energy	1	emergency power	thanking them for their
	conservation		outages in progress	cooperation and
			and asking for energy	patience.
			conservation	

 Image: SMS Text
 Duke Energy
 SMS Text Messages
 Outage Map

SMS Text Messages Alert asking for energy conservation to help prevent need for further load shedding on

Sunday



Duke Energy Updates Website Dedicated website updated during the day to inform customers about the emergency outages, FAQs and request for energy

## conservation



SMS Text Messages and Calls Alerts to ~2000 customers affected by wind event originally expected to be restored by midnight, would now extend

until Dec. 25



Outage Map Banner Alert Explaining temporary power outages were in the process of being restored



Outage Map Banner Alert Update on power restoration efforts in progress

Sunday, 12/25

7:01 AM



Jan 04 2023

COP OFFICIAL

Jan 04 2023

Website Global alert banner asking for energy conservation through 10 a.m. Dec. 26 and thanking customers for their efforts

6:42 PM

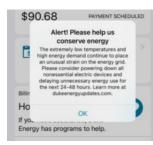
**Duke Energy** 



7:40 AM 3:46 PM **Duke Energy Mobile App** Alert asking for energy conservation through 10 a.m. Dec. 26 and

thanking customers for

their efforts



**Social Media** Twitter and Facebook appeal for ongoing energy conservation through 10 a.m. Dec. 26



**News Release** Thanking customers and asking for ongoing energy conservation through 10 a.m.

3:51 PM

Dec. 26



Alert asking customers to conserve energy through 10 a.m. Dec. 26 to help avoid additional rotating outages

5:30 PM

**SMS Text** 



Jan 04 2023

	12:44 PM	1:03 PM	3:30 PM
Se	Duke Energy	Email	Duke Energy
ЭУ	Updates Website	Thanking customers	Updates Website
mal	Thanked customers for	for their conservation	Explained that
ions	conservation efforts, no	efforts and patience	expected peak energy
	further emergency outages	during the outages	demand was met and
	anticipated		thanked customers for
	Entery.		conservation efforts
	Duke Energy Updates		
	We successfully met the expected peak energy demand in the Cardinas on Sunday, Dec. 20, and Monday. Dec. 20, thenks in lerge part to customer efforts to conserve power effer the weekend's arect: bater jaced an unusual strain on the energy grid. As ensuit of gradually werming temperatures and improved power resideability, or additional conservation metaware an energited from customers at the time.		
	The energency power outages and requests for energy conservation are a rare occurrence – and a abaution we always strive to avoid. Unfortunately, in this unique case, the tamporary outages were necessary to protect the grid from more estansive demage, which would have meant lengther repairs and longer, more widespread power outages.		
	Latest News		

News Release Duke Energy resumes normal power operations

Monday, 12/26

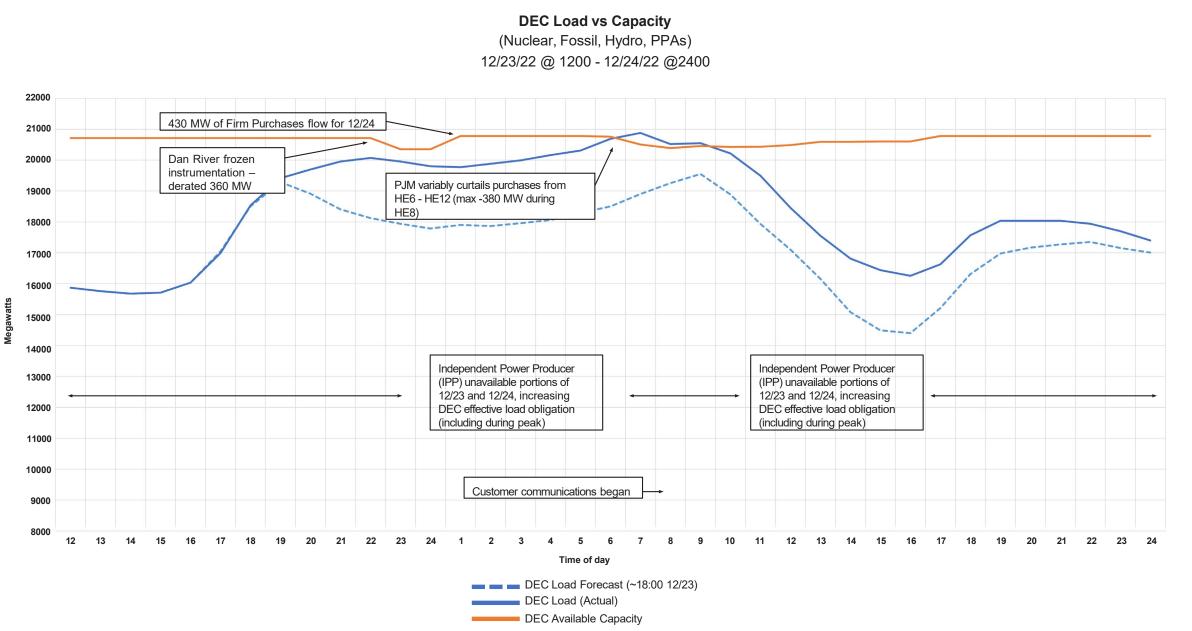
11:12 AM





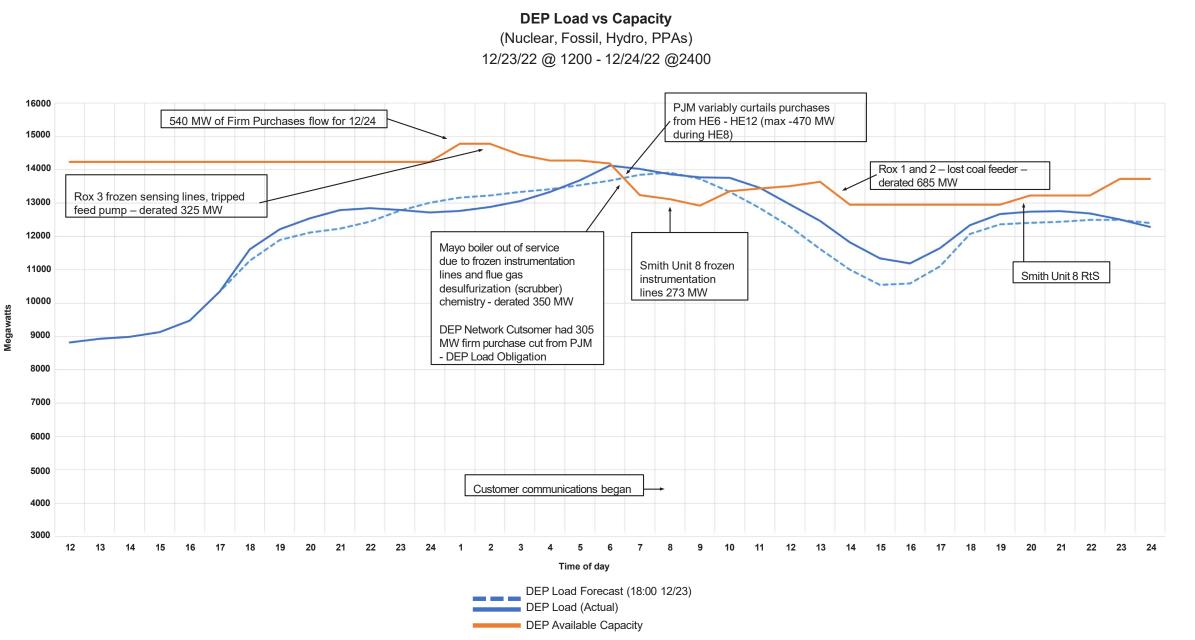
# Appendix

**Jan 04 2023** 



Jan 04 2023

04 2023



Jan 04 2023

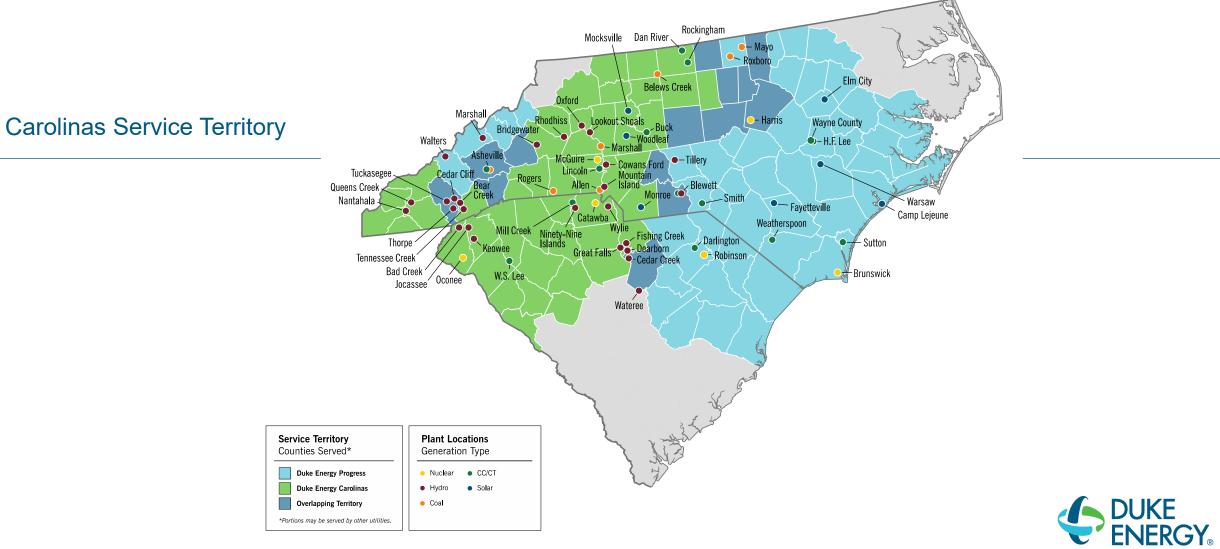
# Carolinas Service Territory Map

OFFICIAL COPY

Jan 04 2023



Jan 04 20<mark>2</mark>3



# **Communication Samples**

OFFICIAL COPY

Jan 04 2023

### Wednesday, 12/21



## SMS Text Messages and Calls Medical alert and critical healthcare notifications were sent in anticipation of winter wind event



Duke Energy Medial Alert! High winds are forecast to impact much of the Carolinas on Friday, w/ the potential to cause widespread power outages. Temperatures are expected to drop significantly as the cold front passes through. Our records indicate that someone at this location relies on electric-powered life support equipment. Please consider now the actions you'd take if you were to lose power for an extended period. To report an outage, text OUT to 57801 or call 800.POWERON. Text stop to cancel.



support equipment. Please consider now the actions you'd take if you were to lose power for an extended period. To report an outage, text OUT to 57801 or call 800.POWERON. Text stop to cancel.

Duke Energy Critical Healthcare Facilities Alert! High winds are forecast to impact much of the Carolinas on Friday, w/ the potential to cause widespread power outages. Our records indicate your facility may house medical materials or accommodate those w/ special medical needs. Please consider now the actions your organization would take if power was out for an extended period. If you lose power text OUT to 57801 call 800.POWERON. Text STOP to cancel.



\*\*\*

# Jan 04 2023

## Saturday, 12/24



**Social Media** Twitter and Facebook posts announcing temporary rolling outages





As extreme temps drive unusually high energy demand across the Carolinas we have begun short, temporary power outages. These emergency outages are necessary to protect the energy grid against longer, more widespread outages. We appreciate your patience. spr.ly/60163zi6k



7:38 AM · Dec 24, 2022

## Saturday, 12/24

Y.



Web & Mobile Messages posted and updated on the website and mobile app



	() Alert	outages are in the process	res driving unusually h of being restored. The	on igh energy demand, we deployed te y were necessary to protect the ene- uur patience as we respond to this e	rgy grid against	damage and longer of		rary	^	
For You	ur Business							🔀 Español	<b>V</b> North Carolina	Q Search
	Manage Acc	ount • Billing &	k Payment +	Products & Services -	Start, Stop	& Move -	Outages	Customer Servi	ce	
*	The extreme	ency power o e cold has placed an u utages are necessary t	nusual strain on t	he energy grid. These brief,		LEARN	MORE			
Account Summar Porment Due on Jan St Billin Hot frys Ener Due to eth moment moment with the to the t	ng, 2021 ng across regions emis temporatures divide tiph energy demand, we avoid the timporary power costs our system. There is report your outage at this report y									

## Saturday, 12/24



## Outage Map Banner Alert Explaining temporary power outages – message updated throughout the day



#### $\equiv \bigoplus_{\text{ENERGY.}}^{\text{DUKE}}$ Outages in the Carolinas

#### Emergency power outages underway | click to expand

Due to extremely cold temperatures driving unusually high energy demand, we have begun short, temporary power outages across our system. These emergency outages, also known as rolling blackouts, are necessary to protect the energy grid against longer, more widespread outages. The majority of these emergency outages will be restored remotely within 15-30 minutes; however, in some cases, a crew will need to be dispatched, extending restoration times. Also, it is possible that other unrelated factors, such as downed tree limbs, are also causing outages at the same time. We will update the map as our crews provide additional information. We appreciate your patience and cooperation as we respond to this emergency situation.



### $\equiv$ $\bigoplus_{\text{ENERGY.}}^{\text{DUKE}}$ Outages in the Carolinas

#### Emergency power outages underway | click to expand

Due to extremely cold temperatures driving unusually high energy demand, we deployed temporary power outages across our system. These emergency outages, also known as rolling blackouts, were necessary to protect the energy grid against longer, more widespread outages. These temporary outages are in the process of being restored. Also, it is possible that other unrelated factors, such as downed tree limbs, are also causing outages at the same time. We will update the map as our crews provide additional information. We appreciate your patience and cooperation as we respond to this emergency situation.



BUILDING A SMARTER ENERGY FUTURE ®

# Jan 04 2023

## Saturday, 12/24



## News Release Shared power restoration and continued energy conservation request





News Release

24-Hour: 800.559.3853

Dec. 24, 2022

# Duke Energy asks for continued energy conservation as power restoration continues following extreme winter temperatures

- Saturday's rotating outages to protect overall energy grid concluded
- Crews continue to restore power from Friday's winter weather

CHARLOTTE – Duke Energy asked customers to conserve energy usage as crews restored power following rotating outages in the Carolinas in response to high-energy demand Saturday morning.

Due to extreme cold weather causing increased demand and a shortage of available power in the Southeast region, the company was forced to interrupt service to about 500,000 customers to maintain the energy grid and prevent further disruptions. Power is currently being restored and should be completed today.

"This winter blast and customer domand has been unprecedented in recent bistory of

## Saturday, 12/24 & Sunday, 12/25



### **SMS Text Messages**

Alerts asking for energy conservation



## 12/24



 $(\uparrow)$ 

## 12/25



can help at duk.us/32. Thank you for your cooperation. Text STOP to cancel.

Duke Energy: Your assistance kept the lights on for everyone! While we continue to see high demand due to extreme termperatures, your energy conservation helped lessen the strain on the grid. With another day of exceptionally low temperatures in the forecast, we ask you to continue keeping all nonessential electric devices powered down & minimize unnecessary energy use until 10:00 AM Monday to help avoid rotating outages in the early morning hours. Learn more about how we respond to these grid emergencies and how you can help at duk.us/32. Thank you for your cooperation. Text STOP to cancel.



## Saturday, 12/24



Web & Mobile Continued to update web-specific content to add context to event and reiterate conservation tips



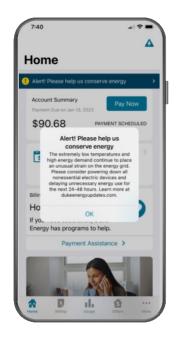
# Duke Energy Updates

The extremely low temperatures and high energy demand continue to place an unusual strain on the energy grid. Please consider powering down all nonessential electric devices and delaying unnecessary energy use for the next 24-48 hours to help avoid rotating outages.

Customers can help us by taking the following steps:

- Select the lowest comfortable thermostat setting and bump it down several degrees whenever possible.
- Avoid using large appliances this means appliances with a three-pronged plug, such as dishwashers, ovens and dryers during high-demand periods like early winter mornings.
- Shift nonessential activities, like laundry, to late evening hours, when power demand is lower.
- Charge electric vehicles overnight.
- If you have an electric water heater, limit the use of hot water as much as possible.

Emergency power outages were implemented on Saturday, Dec. 24. Learn more about what led to these actions.



000

...

## Sunday, 12/25



## **Social Media** Twitter and Facebook appeal for ongoing energy conservation

Y f

#### Duke Energy 🤣 **\$** December 24 · 🚱

\*\*\* UPDATE 12/25/22 at 3:30 PM\*\*\* - Extreme cold and high energy demand continues to strain the grid in the Carolinas. Please continue conserving energy and consider shutting nonessential lights until 10 a.m. Monday, Dec. 26 to avoid possible rotating outages. We are grateful for your efforts. Be safe. More info available: https://news.duke-energy.com/.../duke-energy-thanks-customers...

Extremely cold temperatures across the region have created extraordinary high demands on the power system. Crews are restoring customers impacted by emergency, temporary outages from this morning and remaining storm outages. We are asking customers to help by reducing electricity use as much as possible without sacrificing safety.

Please turn off non-essential electric lights and appliances and postpone using appliances like dishwashers and clothes dryers. Minor adjustments to thermostats and other measures can make a significant difference. We understand that cutting back on use of electricity can be inconvenient and uncomfortable, especially during the holidays. We appreciate the help and patience as we manage this unprecedented demand. Your support can make a difference in helping keeping power on for all.



Duke Energy 🤣 @DukeEnergy

Extreme cold & high energy demand continues to strain the grid. Please continue conserving energy and consider shutting nonessential lights until 10 a.m. Monday, Dec. 26 to avoid possible rotating outages. We are grateful for your efforts. Be safe. Info: spr.ly/60113zfD5



3:46 PM · Dec 25, 2022

### Sunday, 12/26



## Press Release &

Email

Customer appreciation through the winter weather

event

# 

# Whether you lost power – or conserved power – we are grateful to you.

For many across the Carolinas, 2022's holiday season has been uniquely difficult. First, the gale-force winds ravaging across the U.S. took out trees, power lines and poles – leaving many in the dark. And then record cold set in, driving up energy demand and further taxing the grid.

We are grateful to all of you for your patience and understanding. First to all who lost power from that initial storm and had to wait in the bitter cold. Second, to those who lost power during the emergency outages that followed and had to wait – sometimes longer than anticipated – for power to be restored. And finally, to all who generously delayed extra energy use during this critical period to help keep the lights on for others.

The emergency power outages and requests for energy conservation are a rare occurrence – and a situation we always strive to avoid. Unfortunately, in this case, the temporary outages were necessary to protect the grid from more extensive damage, which would have meant lengthier repairs and longer, more widespread power outages.

Again, our thanks to everyone – and especially to those who had to wait, sometimes for hours longer than planned over a holiday weekend, for their power to be restored. We have never been more grateful to serve this strong and generous community.



## Carolinas 12-23+NGG

			CAR TOTALS (RRE+NGG)	35,913.5	3,110.3	3 RRE Derate Total (MW)		
	Station	Line in ID	Turne	2022 Winter		Forced vs	Weather Related	
Jurisdiction	Station	Unit ID	Туре	Capacity (MW)	Derate (MW)	Planned	(Y/N)	
DEC	Allen	1	Steam	167.0	167.0	Planned	N	
DEC	Allen	5	Steam	259.0	259.0	Planned	N	
DEC	Belews Creek	1	Steam	1,110.0	125.0	Forced	N	
DEC	Belews Creek	2	Steam	1,110.0	0.0			
DEC	Cliffside	5	Steam	546.0	71.0	Forced	N	
DEC	Cliffside	6	Steam	849.0	0.0		N	
DEC	Marshall	1	Steam	380.0	380.0	Forced	Ν	
DEC	Marshall	2	Steam	380.0	380.0	Forced	N	
DEC	Marshall	3	Steam	658.0	0.0			
DEC	Marshall	4	Steam	660.0	0.0			
DEP	Мауо	1	Steam	713.0	113.0	Forced	Ν	
DEP	Roxboro	1	Steam	380.0	0.0			
DEP	Roxboro	2	Steam	673.0	0.0			
DEP	Roxboro	3	Steam	698.0	73.0	Planned	N	
DEP	Roxboro	4	Steam	711.0	211.0	Forced	N	
DEP	Asheville PB1		Combined Cycle	280.0	0.0			
DEP	Asheville PB2		Combined Cycle	280.0	0.0			
DEC	Buck		Combined Cycle	718.0	0.0			
DEC	Dan River		Combined Cycle	718.0	0.0			
DEP	HF Lee		Combined Cycle	1,059.0	0.0			
DEP	Smith PB4		Combined Cycle	570.0	0.0			
DEP	Smith PB5		Combined Cycle	680.0	0.0			
DEP	Sutton		Combined Cycle	719.0	0.0			
DEC	WS Lee		Combined Cycle	809.0	809.0	Forced	N	
DEP	Asheville	3	Simple Cycle CT	185.0	0.0			
DEP	Asheville	4	Simple Cycle CT	185.0	0.0			
DEP	Blewett	1	Simple Cycle CT	17.0	0.0			
DEP	Blewett	2	Simple Cycle CT	17.0	0.0			
DEP	Blewett	3	Simple Cycle CT	17.0	0.0			
DEP	Blewett	4	Simple Cycle CT	17.0	0.0			
DEP	Darlington	12	Simple Cycle CT	131.0	0.0			
DEP	Darlington	13	Simple Cycle CT	133.0	0.0			
DEC	Lee	7C	Simple Cycle CT	48.0	0.0			
DEC	Lee	8C	Simple Cycle CT	48.0	0.0			
DEC	Lincoln	1	Simple Cycle CT	94.0	0.0			

DEC	Lincoln	2	Simple Cycle CT	96.0	0.0		
DEC	Lincoln	3	Simple Cycle CT	95.0	0.0		
DEC	Lincoln	4	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	5	Simple Cycle CT	93.0	0.0		
DEC	Lincoln	6	Simple Cycle CT	93.0	0.0		
DEC	Lincoln	7	Simple Cycle CT	95.0	0.0		
DEC	Lincoln	8	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	9	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	10	Simple Cycle CT	96.0	0.0		
DEC	Lincoln	11	Simple Cycle CT	95.0	0.0		
DEC	Lincoln	12	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	13	Simple Cycle CT	93.0	0.0		
DEC	Lincoln	14	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	15	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	16	Simple Cycle CT	93.0	0.0		
DEC	Mill Creek	1	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	2	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	3	Simple Cycle CT	95.0	0.0		
DEC	Mill Creek	4	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	5	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	6	Simple Cycle CT	92.0	0.0		
DEC	Mill Creek	7	Simple Cycle CT	95.0	0.0		
DEC	Mill Creek	8	Simple Cycle CT	93.0	0.0		
DEC	Rockingham	1	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	2	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	3	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	4	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	5	Simple Cycle CT	179.0	0.0		
DEP	Smith Energy Complex	1	Simple Cycle CT	192.0	0.0		
DEP	Smith Energy Complex	2	Simple Cycle CT	192.0	47.0	Forced	Ν
DEP	Smith Energy Complex	3	Simple Cycle CT	192.0	0.0		
DEP	Smith Energy Complex	4	Simple Cycle CT	192.0	0.0		
DEP	Smith Energy Complex	6	Simple Cycle CT	192.0	0.0		
DEP	Sutton	4	Simple Cycle CT	49.0	0.0		
DEP	Sutton	5	Simple Cycle CT	49.0	0.0		
DEP	Wayne County	10	Simple Cycle CT	195.0	0.0		
DEP	Wayne County	11	Simple Cycle CT	195.0	40.0	Forced	Ν
DEP	Wayne County	12	Simple Cycle CT	195.0	0.0		

DEP	Wayne County	13	Simple Cycle CT	195.0	0.0		
DEP	Wayne County	14	Simple Cycle CT	195.0	0.0		
DEP	Weatherspoon	1	Simple Cycle CT	41.0	0.0		
DEP	Weatherspoon	2	Simple Cycle CT	41.0	0.0		
DEP	Weatherspoon	3	Simple Cycle CT	41.0	0.0		
DEP	Weatherspoon	4	Simple Cycle CT	41.0	0.0		
DEC	Clemson CHP	1	СНР	14.0	0.0		
DEC	Bad Creek	1	Hydro	420.0	0.0		
DEC	Bad Creek	2	Hydro	420.0	0.0		
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	Ν
DEC	Bad Creek	4	Hydro	340.0	0.0		
DEC	Bear Creek	1	Hydro	9.5	9.5	Planned	Ν
DEC	Bridgewater	1	Hydro	15.0	0.0		
DEC	Bridgewater	2	Hydro	15.0	0.0		
DEC	Bridgewater	3	Hydro	1.5	0.0		
DEC	Cedar Cliff	1	Hydro	6.4	0.0		
DEC	Cedar Cliff	2	Hydro	0.4	0.0		
DEC	Cedar Creek	1	Hydro	15.0	0.0		
DEC	Cedar Creek	2	Hydro	15.0	0.0		
DEC	Cedar Creek	3	Hydro	15.0	0.0		
DEC	Cowans Ford	1	Hydro	81.0	0.0		
DEC	Cowans Ford	2	Hydro	81.0	0.0		
DEC	Cowans Ford	3	Hydro	81.0	0.0		
DEC	Cowans Ford	4	Hydro	81.0	0.0		
DEC	Dearborn	1	Hydro	14.0	0.0		
DEC	Dearborn	2	Hydro	14.0	0.0		
DEC	Dearborn	3	Hydro	14.0	0.0		
DEC	Fishing Creek	1	Hydro	11.0	0.0		
DEC	Fishing Creek	2	Hydro	10.0	0.0		
DEC	Fishing Creek	3	Hydro	10.0	0.0		
DEC	Fishing Creek	4	Hydro	11.0	0.0		
DEC	Fishing Creek	5	Hydro	9.0	0.0		
DEC	Great Falls	1	Hydro	0.0	0.0		
DEC	Great Falls	2	Hydro	0.0	0.0		
DEC	Great Falls	3	Hydro	0.0	0.0		
DEC	Great Falls	4	Hydro	0.0	0.0		
DEC	Great Falls	5	Hydro	0.0	0.0		
DEC	Great Falls	6	Hydro	0.0	0.0		

DEC	Great Falls	7	Hydro	0.0	0.0		
DEC	Great Falls	8	Hydro	0.0	0.0		
DEC	Jocassee	1	Hydro	195.0	0.0		
DEC	Jocassee	2	Hydro	195.0	0.0		
DEC	Jocassee	3	Hydro	195.0	0.0		
DEC	Jocassee	4	Hydro	195.0	0.0		
DEC	Keowee	1	Hydro	76.0	0.0		
DEC	Keowee	2	Hydro	76.0	0.0		
DEC	Lookout Shoals	1	Hydro	9.0	0.0		
DEC	Lookout Shoals	2	Hydro	9.0	0.0		
DEC	Lookout Shoals	3	Hydro	9.0	0.0		
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned	Ν
DEC	Mountain Island	2	Hydro	17.0	0.0		
DEC	Mountain Island	3	Hydro	17.0	0.0		
DEC	Mountain Island	4	Hydro	17.0	0.0		
DEC	Nantahala	1	Hydro	45.0	0.0		
DEC	Ninety-Nine Islands	1	Hydro	4.2	0.0		
DEC	Ninety-Nine Islands	2	Hydro	3.4	0.0		
DEC	Ninety-Nine Islands	3	Hydro	4.2	0.0		
DEC	Ninety-Nine Islands	4	Hydro	3.4	3.4	Planned	N
DEC	Ninety-Nine Islands	5	Hydro	0.0	0.0		
DEC	Ninety-Nine Islands	6	Hydro	0.0	0.0		
DEC	Oxford	1	Hydro	20.0	0.0		
DEC	Oxford	2	Hydro	20.0	20.0	Forced	N
DEC	Queens Creek	1	Hydro	1.4	0.0		
DEC	Rhodhiss	1	Hydro	9.5	0.0		
DEC	Rhodhiss	2	Hydro	11.5	0.0		
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	Ν
DEC	Tennessee Creek	1	Hydro	11.5	0.0		
DEC	Thorpe	1	Hydro	19.7	0.0		
DEC	Tuckasegee	1	Hydro	2.5	0.0		
DEC	Wateree	1	Hydro	17.0	0.0		
DEC	Wateree	2	Hydro	17.0	0.0		
DEC	Wateree	3	Hydro	17.0	0.0		
DEC	Wateree	4	Hydro	17.0	0.0		
DEC	Wateree	5	Hydro	6.0	0.0		
DEC	Wylie	1	Hydro	18.0	0.0		
DEC	Wylie	2	Hydro	18.0	0.0		

DEC	Wylie	3	Hydro	18.0	0.0		
DEC	Wylie	4	Hydro	6.0	0.0		
DEP	Blewett	1	Hydro	4.0	0.0		
DEP	Blewett	2	Hydro	4.0	0.0		
DEP	Blewett	3	Hydro	4.0	0.0		
DEP	Blewett	4	Hydro	5.0	0.0		
DEP	Blewett	5	Hydro	5.0	0.0		
DEP	Blewett	6	Hydro	5.0	0.0		
DEP	Marshall	1	Hydro	2.0	0.0		
DEP	Marshall	2	Hydro	2.0	0.0		
DEP	Tillery	1	Hydro	21.0	0.0		
DEP	Tillery	2	Hydro	18.0	0.0		
DEP	Tillery	3	Hydro	21.0	0.0		
DEP	Tillery	4	Hydro	25.0	0.0		
DEP	Walters	1	Hydro	36.0	0.0		
DEP	Walters	2	Hydro	40.0	0.0		
DEP	Walters	3	Hydro	36.0	36.0	Planned	Ν
DEP	Brunswick	1	Nuclear	973.0	0.0		
DEP	Brunswick	2	Nuclear	915.0	0.0		
DEP	Harris	1	Nuclear	1,001.0	0.0		
DEP	Robinson	2	Nuclear	759.0	759.0	Planned	Ν
DEC	Catawba	1	Nuclear	1,190.0	0.0		
DEC	Catawba	2	Nuclear	1,183.0	0.0		
DEC	McGuire	1	Nuclear	1,195.0	0.0		
DEC	McGuire	2	Nuclear	1,193.0	0.0		
DEC	Oconee	1	Nuclear	874.0	0.0		
DEC	Oconee	2	Nuclear	874.0	0.0		
DEC	Oconee	3	Nuclear	883.0	0.0		

### Carolinas 12-24+NGG

			CAR TOTALS (RRE+NGG)	35,913.5	4,482.3 RRE Derate Total (MW)		
Jurisdiction	Station	Unit ID	Туре	2022 Winter Capacity (MW)	Derate (MW)	Forced vs Planned	Weather Related (Y/N
DEC	Allen	1	Steam	167.0	167.0	Planned	N
DEC	Allen	5	Steam	259.0	259.0	Planned	N
DEC	Belews Creek	1	Steam	1,110.0	125.0	Forced	N
DEC	Belews Creek	2	Steam	1,110.0	0.0		
DEC	Cliffside	5	Steam	546.0	71.0	Forced	N
DEC	Cliffside	6	Steam	849.0	0.0		N
DEC	Marshall	1	Steam	380.0	380.0	Forced	N
DEC	Marshall	2	Steam	380.0	380.0	Forced	N
DEC	Marshall	3	Steam	658.0	0.0		
DEC	Marshall	4	Steam	660.0	0.0		
DEP	Мауо	1	Steam	713.0	336.0	Forced	Y
DEP	Мауо	1	Steam	-	14.0	Forced	Y
DEP	Мауо	1	Steam	-	113.0	Forced	N
DEP	Roxboro	1	Steam	380.0	0.0		
DEP	Roxboro	2	Steam	673.0	0.0		
DEP	Roxboro	3	Steam	698.0	398.0	Forced	Y
DEP	Roxboro	4	Steam	711.0	211.0	Forced	N
DEP	Asheville PB1		Combined Cycle	280.0	0.0		
DEP	Asheville PB2		Combined Cycle	280.0	0.0		
DEC	Buck		Combined Cycle	718.0	0.0		
DEC	Dan River		Combined Cycle	718.0	359.0	Forced	Y
DEP	HF Lee		Combined Cycle	1,059.0	0.0		
DEP	Smith PB4		Combined Cycle	570.0	273.0	Forced	Y
DEP	Smith PB5		Combined Cycle	680.0	0.0		
DEP	Sutton		Combined Cycle	719.0	0.0		
DEC	WS Lee		Combined Cycle	809.0	809.0	Forced	N
DEP	Asheville	3	Simple Cycle CT	185.0	0.0		
DEP	Asheville	4	Simple Cycle CT	185.0	0.0		
DEP	Blewett	1	Simple Cycle CT	17.0	17.0	Forced	N
DEP	Blewett	2	Simple Cycle CT	17.0	17.0	Forced	N
DEP	Blewett	3	Simple Cycle CT	17.0	0.0		
DEP	Blewett	4	Simple Cycle CT	17.0	17.0	Forced	N
DEP	Darlington	12	Simple Cycle CT	131.0	0.0		
DEP	Darlington	13	Simple Cycle CT	133.0	0.0		
DEC	Lee	7C	Simple Cycle CT	48.0	0.0		
DEC	Lee	8C	Simple Cycle CT	48.0	0.0		
DEC	Lincoln	1	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	2	Simple Cycle CT	96.0	0.0		
DEC	Lincoln	3	Simple Cycle CT	95.0	0.0		
DEC	Lincoln	4	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	5	Simple Cycle CT	93.0	0.0		

#### 10.14% CAR EFOR (RRE +NGG)

Note: This tab summarizes unit status as of the start of rolling outages. Buck experienced a 178 MW derate in the late morning of 12/24. The resulting EFOR of 10.14% is slightly lower than the amount previously noted to the Commission.

DEC	Lincoln	6	Simple Cycle CT	93.0	0.0		
DEC	Lincoln	7	Simple Cycle CT	95.0	0.0		
DEC	Lincoln	8	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	9	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	10	Simple Cycle CT	96.0	0.0		
DEC	Lincoln	11	Simple Cycle CT	95.0	0.0		
DEC	Lincoln	12	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	13	Simple Cycle CT	93.0	0.0		
DEC	Lincoln	14	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	15	Simple Cycle CT	94.0	0.0		
DEC	Lincoln	16	Simple Cycle CT	93.0	0.0		
DEC	Mill Creek	1	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	2	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	3	Simple Cycle CT	95.0	0.0		
DEC	Mill Creek	4	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	5	Simple Cycle CT	94.0	0.0		
DEC	Mill Creek	6	Simple Cycle CT	92.0	0.0		
DEC	Mill Creek	7	Simple Cycle CT	95.0	0.0		
DEC	Mill Creek	8	Simple Cycle CT	93.0	0.0		
DEC	Rockingham	1	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	2	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	3	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	4	Simple Cycle CT	179.0	0.0		
DEC	Rockingham	5	Simple Cycle CT	179.0	0.0		
DEP	Smith Energy Complex	1	Simple Cycle CT	192.0	0.0		
DEP	Smith Energy Complex	2	Simple Cycle CT	192.0	47.0	Forced	N
DEP	Smith Energy Complex	3	Simple Cycle CT	192.0	0.0	10.000	
DEP	Smith Energy Complex	4	Simple Cycle CT	192.0	0.0		
DEP	Smith Energy Complex	6	Simple Cycle CT	192.0	0.0		
DEP	Sutton	4	Simple Cycle CT	49.0	0.0		
DEP	Sutton	5	Simple Cycle CT	49.0	0.0		
DEP	Wayne County	10	Simple Cycle CT	195.0	0.0		
DEP	Wayne County	11	Simple Cycle CT	195.0	40.0	Forced	N
DEP	Wayne County	12	Simple Cycle CT	195.0	0.0		
DEP	Wayne County	13	Simple Cycle CT	195.0	0.0		
DEP	Wayne County	14	Simple Cycle CT	195.0	0.0		
DEP	Weatherspoon	1	Simple Cycle CT	41.0	0.0		
DEP	Weatherspoon	2	Simple Cycle CT	41.0	0.0		
DEP	Weatherspoon	3	Simple Cycle CT	41.0	0.0		
DEP	Weatherspoon	4	Simple Cycle CT	41.0	0.0		
DEC	Clemson CHP	1	СНР	14.0	14.0	Forced	Y
DEC	Bad Creek	1	Hydro	420.0	0.0		•
DEC	Bad Creek	2	Hydro	420.0	0.0	+	
DEC	Bad Creek	3	Hydro	340.0	340.0	Planned	N
DEC	Bad Creek	4	Hydro	340.0	0.0		
DEC	Bear Creek	1	Hydro	9.5	9.5	Planned	N

DEC	Bridgewater	1	Hydro	15.0	0.0		
DEC	· ·		,	15.0	0.0		
DEC	Bridgewater	2	Hydro	1.5	0.0		
	Bridgewater		Hydro				
DEC	Cedar Cliff	1	Hydro	6.4	0.0		
DEC	Cedar Cliff	2	Hydro	0.4	0.0		
DEC	Cedar Creek	1	Hydro	15.0	0.0		
DEC	Cedar Creek	2	Hydro	15.0	0.0		
DEC	Cedar Creek	3	Hydro	15.0	0.0		
DEC	Cowans Ford	1	Hydro	81.0	0.0		
DEC	Cowans Ford	2	Hydro	81.0	0.0		
DEC	Cowans Ford	3	Hydro	81.0	0.0		
DEC	Cowans Ford	4	Hydro	81.0	0.0		
DEC	Dearborn	1	Hydro	14.0	0.0		
DEC	Dearborn	2	Hydro	14.0	0.0		
DEC	Dearborn	3	Hydro	14.0	0.0		
DEC	Fishing Creek	1	Hydro	11.0	0.0		
DEC	Fishing Creek	2	Hydro	10.0	0.0		
DEC	Fishing Creek	3	Hydro	10.0	0.0		
DEC	Fishing Creek	4	Hydro	11.0	0.0		
DEC	Fishing Creek	5	Hydro	9.0	0.0		
DEC	Great Falls	1	Hydro	0.0	0.0		
DEC	Great Falls	2	Hydro	0.0	0.0		
DEC	Great Falls	3	Hydro	0.0	0.0		
DEC	Great Falls	4	Hydro	0.0	0.0		
DEC	Great Falls	5	Hydro	0.0	0.0		
DEC	Great Falls	6	Hydro	0.0	0.0		
DEC	Great Falls	7	Hydro	0.0	0.0		
DEC	Great Falls	8	Hydro	0.0	0.0		
DEC	Jocassee	1	Hydro	195.0	0.0		
DEC	Jocassee	2	Hydro	195.0	0.0		
DEC	Jocassee	3	Hydro	195.0	0.0		
DEC	Jocassee	4	Hydro	195.0	0.0		
DEC	Keowee	1	Hydro	76.0	0.0		
DEC	Keowee	2	Hydro	76.0	0.0		
DEC	Lookout Shoals	1	Hydro	9.0	0.0		
DEC	Lookout Shoals	2	Hydro	9.0	0.0		
DEC	Lookout Shoals	3	Hydro	9.0	0.0	† †	
DEC	Mountain Island	1	Hydro	14.0	14.0	Planned	N
DEC	Mountain Island	2	Hydro	17.0	0.0		
DEC	Mountain Island	3	Hydro	17.0	0.0	<u> </u>	
DEC	Mountain Island	4	Hydro	17.0	0.0		
DEC	Nantahala	1	Hydro	45.0	0.0	+ +	
DEC	Ninety-Nine Islands	1	Hydro	4.2	0.0	+ +	
DEC	Ninety-Nine Islands	2	Hydro	3.4	0.0	+ +	
DEC	Ninety-Nine Islands	3	Hydro	4.2	0.0		
DLC	initiety-initie islatius	э	пушто	4.2	0.0		

DEC	Ninety-Nine Islands	5	Hydro	0.0	0.0	ļ	
DEC	Ninety-Nine Islands	6	Hydro	0.0	0.0		
DEC	Oxford	1	Hydro	20.0	0.0		
DEC	Oxford	2	Hydro	20.0	20.0	Forced	N
DEC	Queens Creek	1	Hydro	1.4	0.0		
DEC	Rhodhiss	1	Hydro	9.5	0.0		
DEC	Rhodhiss	2	Hydro	11.5	0.0		
DEC	Rhodhiss	3	Hydro	12.4	12.4	Planned	Ν
DEC	Tennessee Creek	1	Hydro	11.5	0.0		
DEC	Thorpe	1	Hydro	19.7	0.0		
DEC	Tuckasegee	1	Hydro	2.5	0.0		
DEC	Wateree	1	Hydro	17.0	0.0		
DEC	Wateree	2	Hydro	17.0	0.0		
DEC	Wateree	3	Hydro	17.0	0.0		
DEC	Wateree	4	Hydro	17.0	0.0		
DEC	Wateree	5	Hydro	6.0	0.0		
DEC	Wylie	1	Hydro	18.0	0.0		
DEC	Wylie	2	Hydro	18.0	0.0		
DEC	Wylie	3	Hydro	18.0	0.0		
DEC	Wylie	4	Hydro	6.0	0.0		
DEP	Blewett	1	Hydro	4.0	0.0		
DEP	Blewett	2	Hydro	4.0	0.0		
DEP	Blewett	3	Hydro	4.0	0.0		
DEP	Blewett	4	Hydro	5.0	0.0		
DEP	Blewett	5	Hydro	5.0	0.0		
DEP	Blewett	6	Hydro	5.0	0.0		
DEP	Marshall	1	Hydro	2.0	0.0		
DEP	Marshall	2	Hydro	2.0	0.0		
DEP	Tillery	1	Hydro	21.0	0.0		
DEP	Tillery	2	Hydro	18.0	0.0		
DEP	Tillery	3	Hydro	21.0	0.0		
DEP	Tillery	4	Hydro	25.0	0.0		
DEP	Walters	1	Hydro	36.0	0.0		
DEP	Walters	2	Hydro	40.0	0.0		
DEP	Walters	3	Hydro	36.0	36.0	Planned	Ν
DEP	Brunswick	1	Nuclear	973.0	0.0		
DEP	Brunswick	2	Nuclear	915.0	0.0		
DEP	Harris	1	Nuclear	1,001.0	0.0		
DEP	Robinson	2	Nuclear	759.0	759.0	Planned	Ν
DEC	Catawba	1	Nuclear	1,190.0	0.0		
DEC	Catawba	2	Nuclear	1,183.0	0.0		
DEC	McGuire	1	Nuclear	1,195.0	0.0		
DEC	McGuire	2	Nuclear	1,193.0	0.0		
DEC	Oconee	1	Nuclear	874.0	0.0		
DEC	Oconee	2	Nuclear	874.0	0.0		
DEC	Oconee	3	Nuclear	883.0	0.0		