



The Coal Institute

summer trade seminar

July 11, 2023

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Director

South Carolinians for
Affordable, Reliable Coal Electricity



History of SCARCE

June 2021

- South Carolina PSC initiated docket 2021-418 “Coal Plant Retirement Study” requiring the electric utilities to look at closing all coal plants by 2030.

August 2021


- Developed a Board-based coalition to push back on the Sierra Club and Southern Environmental Law Center

October 2021

- When asked by Rep. Bill Sandifer at a legislative oversight hearing, *“why is the PSC was trying to close good coal plants”*, the Chairman of PSC Tom Ervin stated

“Coal plants are the largest producer of the harmful pollutant CO2. CO2 is the major cause of asthma and heart decease”.





Green New Deal – South Carolina?

- Biden Administration

When reentering the Paris Accord, President Biden announced “targets that would close plants by **2030.**”

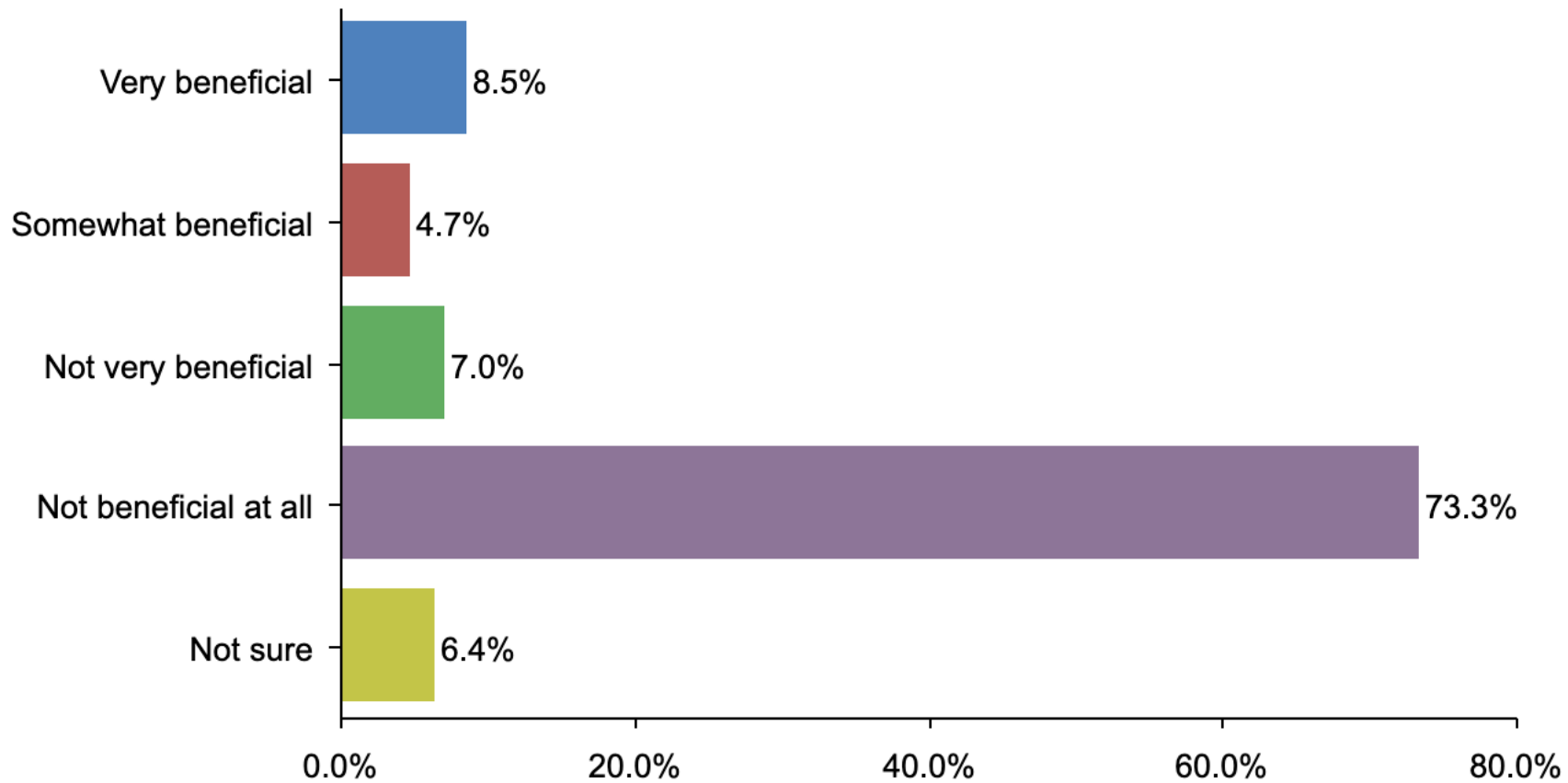
- Sierra Club

Mission statement - “Retire all existing coal plants by **2030**, terminate plans to build new gas plants, and build clean energy much faster.”

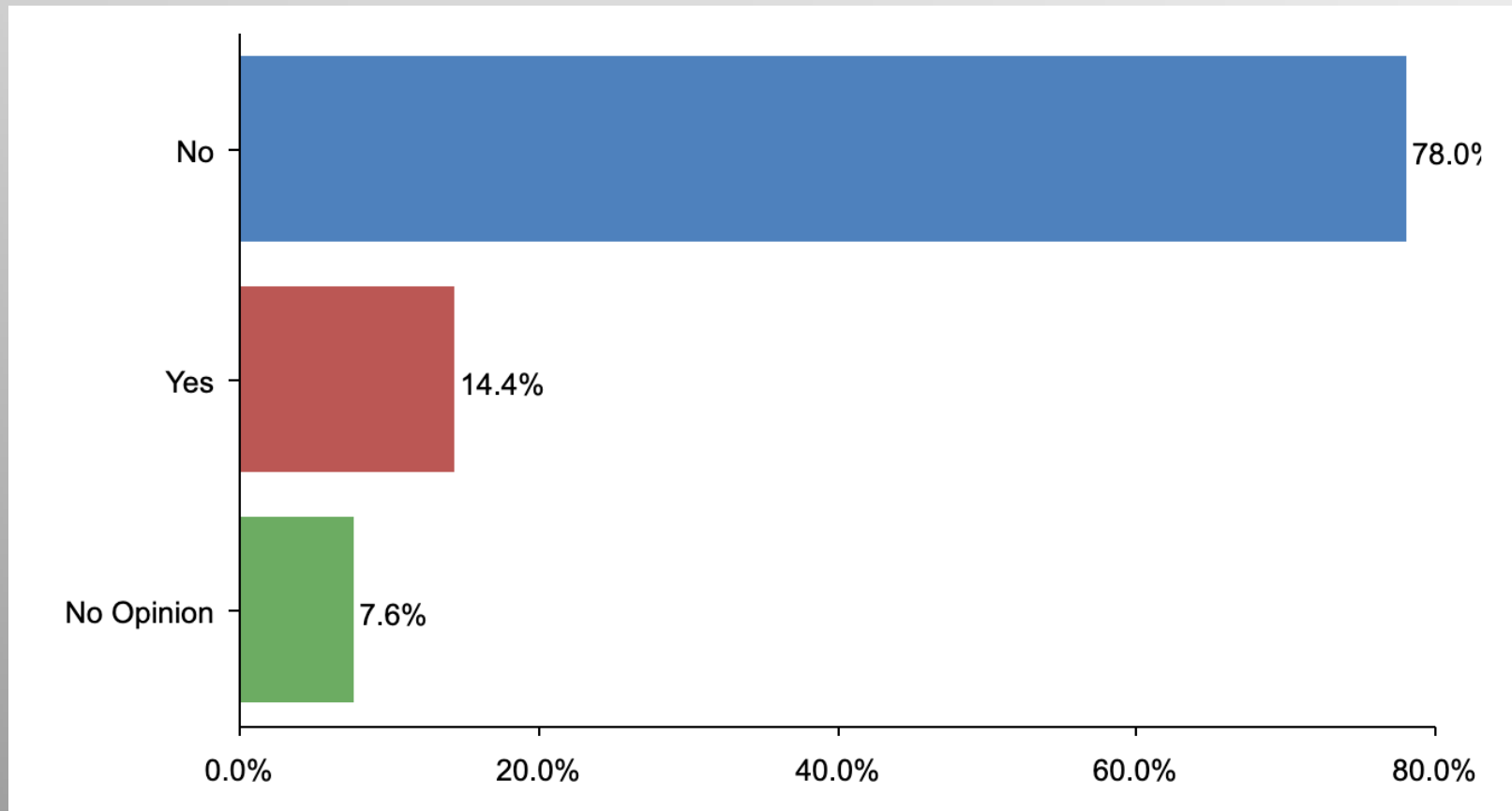
- SC PSC

New ‘modified 2020 IRP’ [Order No. 2021-429](#) that calls for DESC to close the coal plants by 2030.

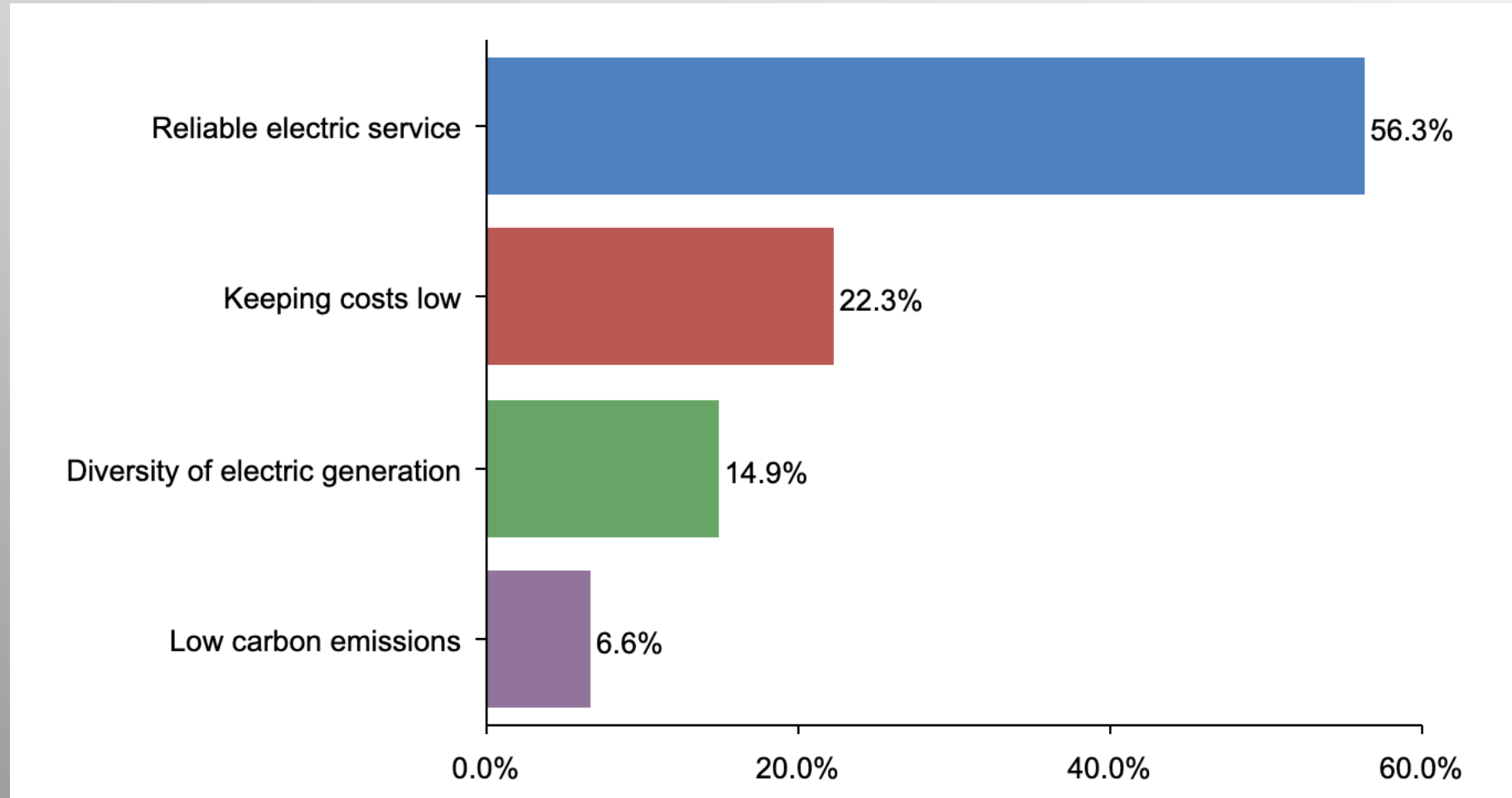
To what degree do you think the Biden Administration's 'Green New Deal' agenda is beneficial for South Carolina?



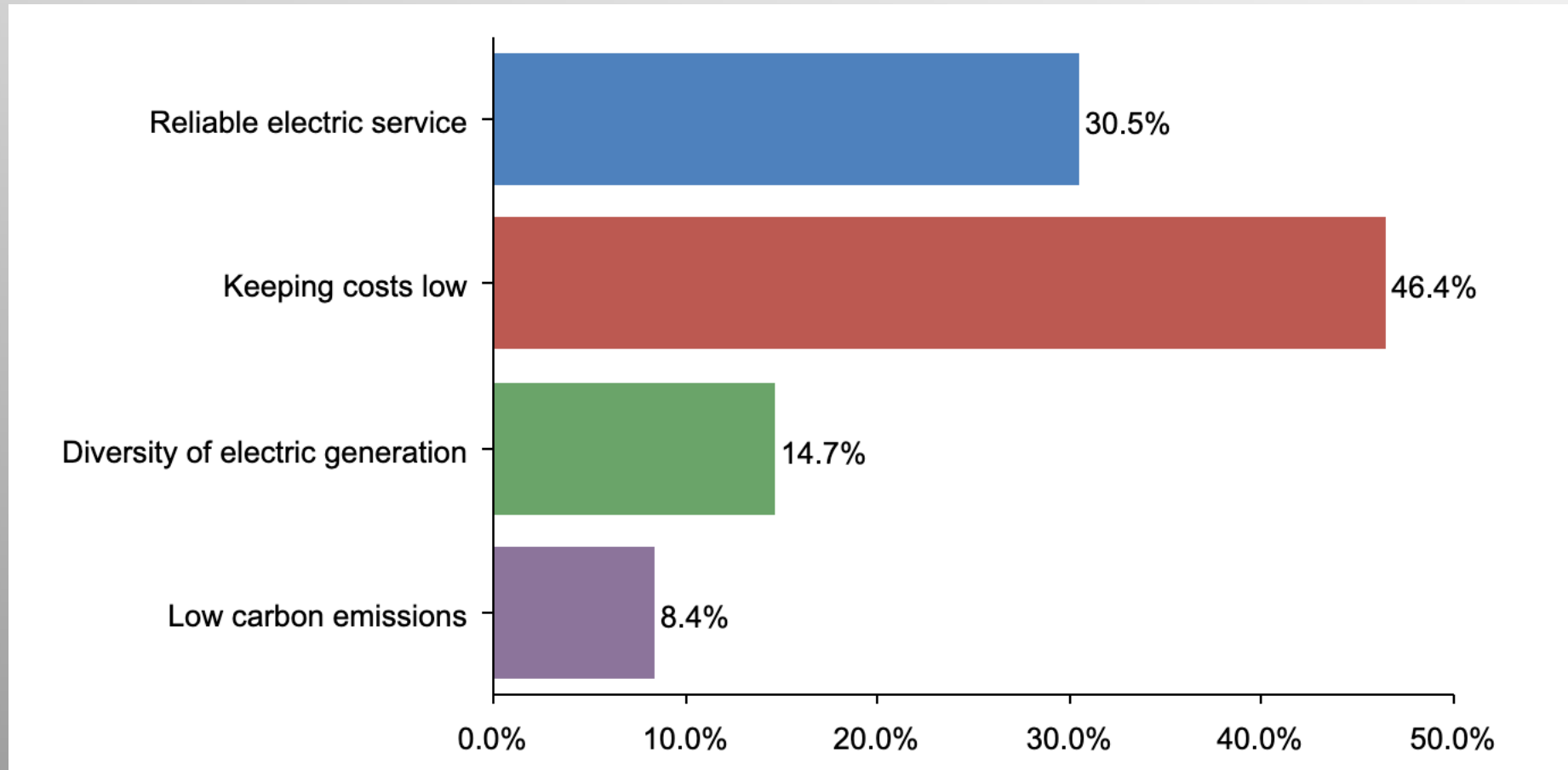
After the closure of numerous coal plants in Texas they suffered a sever blackout that lasted 4 days. Do you think South Carolina should require the state to switch to low emissions power sources?



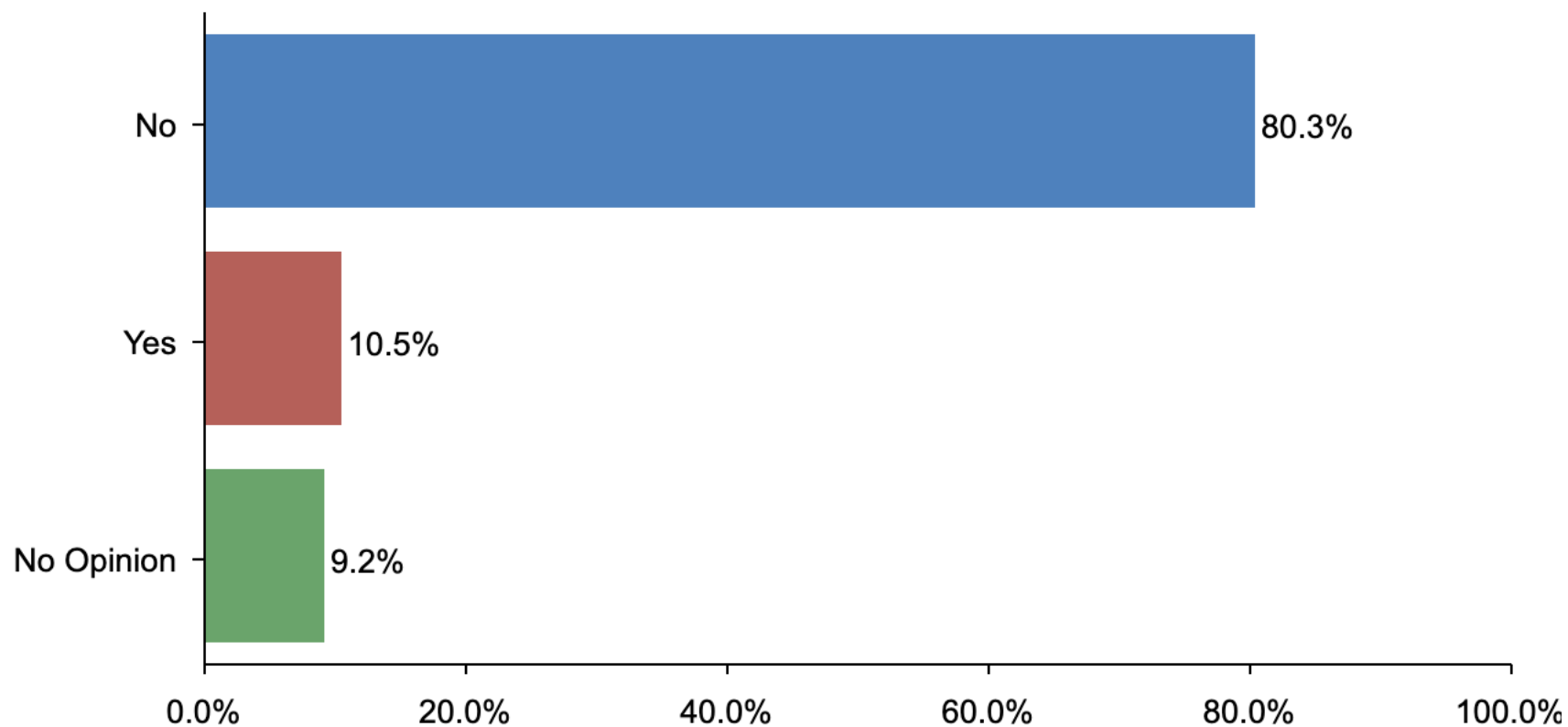
The SC Public Service Commission was elected by the State Assembly to consider numerous factors when approving a utility's "future electric generation plan." Which of the following should be their most important consideration?



Which of the following should be the Public Service Commission's second most important consideration for the "future electricity generation plan"?



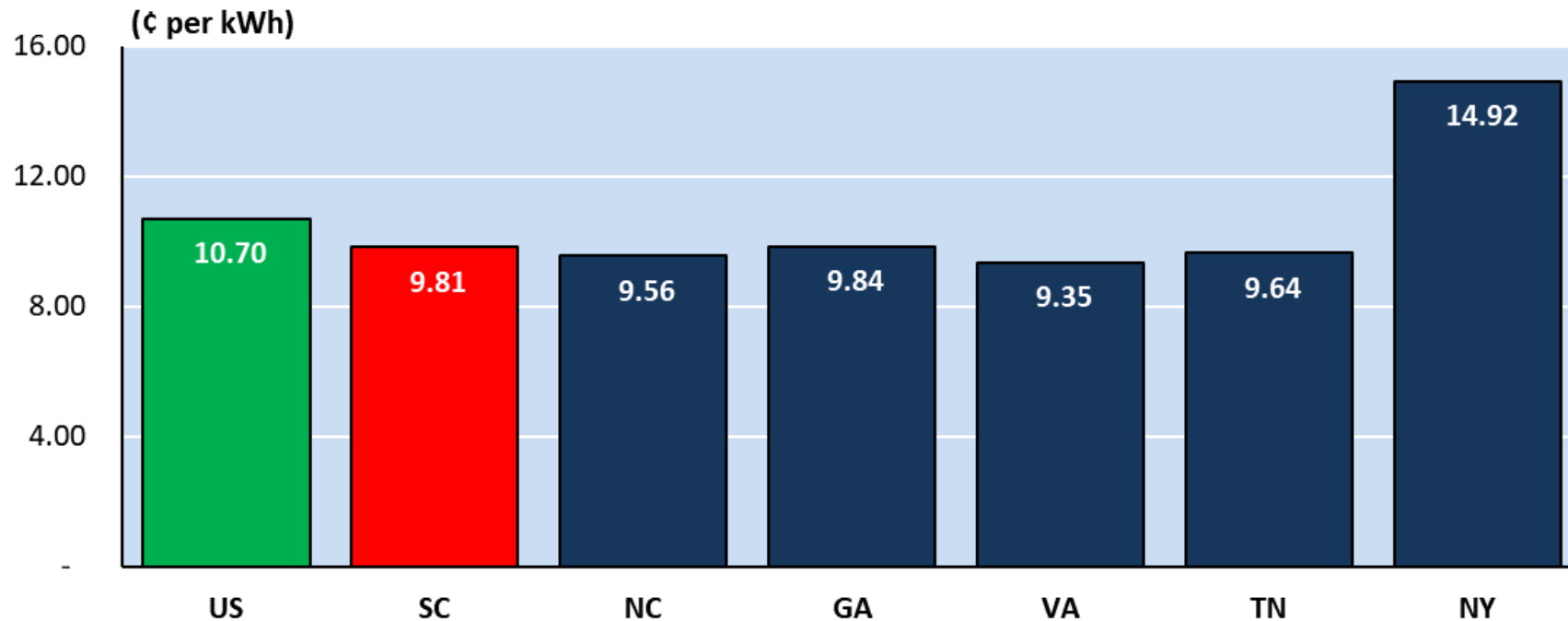
Do you think the Public Service Commission should require electric utilities to add a carbon tax when deciding what electric generation facilities it should build in the future?



Electric Rates

- 8% below national average
- Virtually the same as neighboring states
- Industrial Rate is 5.9 cents/Kwh (14th lowest)

2020 SOUTH CAROLINA RETAIL ELECTRICITY PRICE COMPARISON - ALL SECTORS

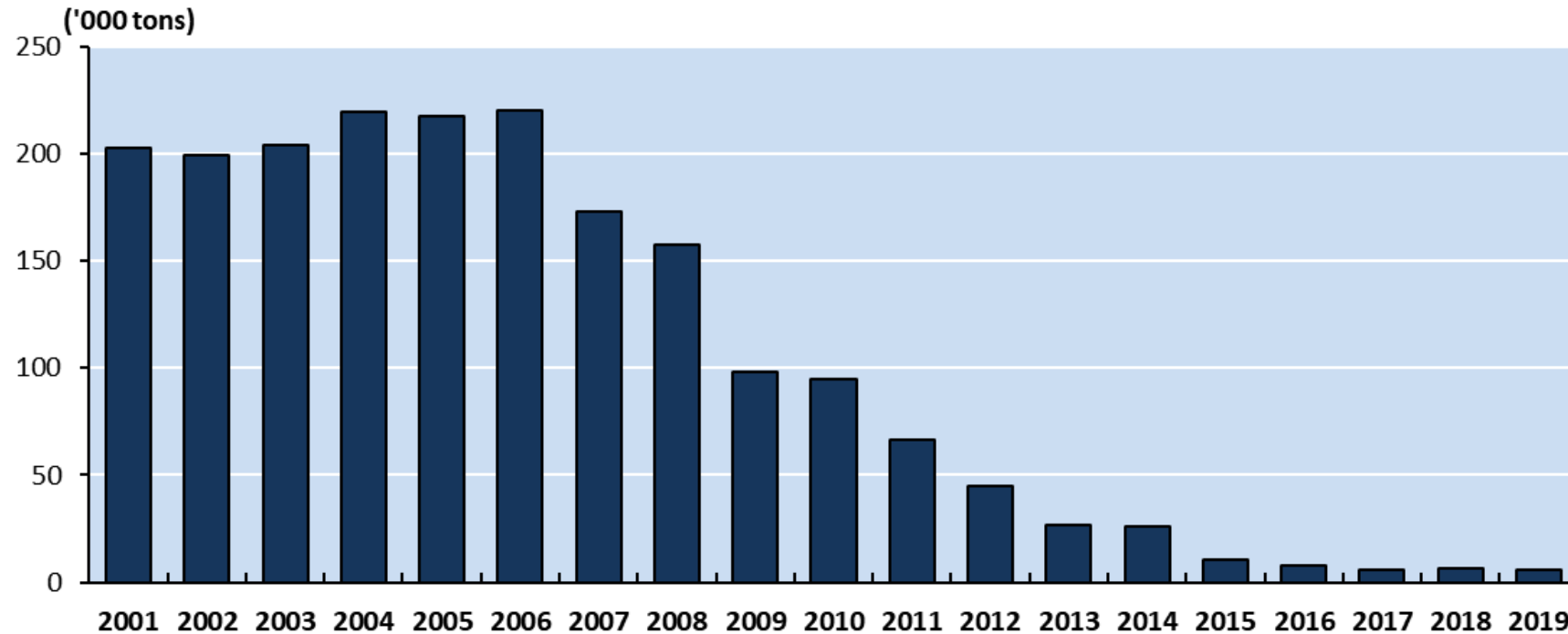


Source: U.S. Department of Energy, Energy Information Administration

Coal Plants are Clean

- South Carolina electric utilities have lowered SO₂ emissions by 97%
- Invested in major emissions controls

SOUTH CAROLINA POWER SECTOR SO₂ EMISSIONS



Source: U.S. Energy Protection Agency

Emissions Reduction

- Electric utilities invested in NOx controls
- Over the past two decades NOx has dropped by 87%

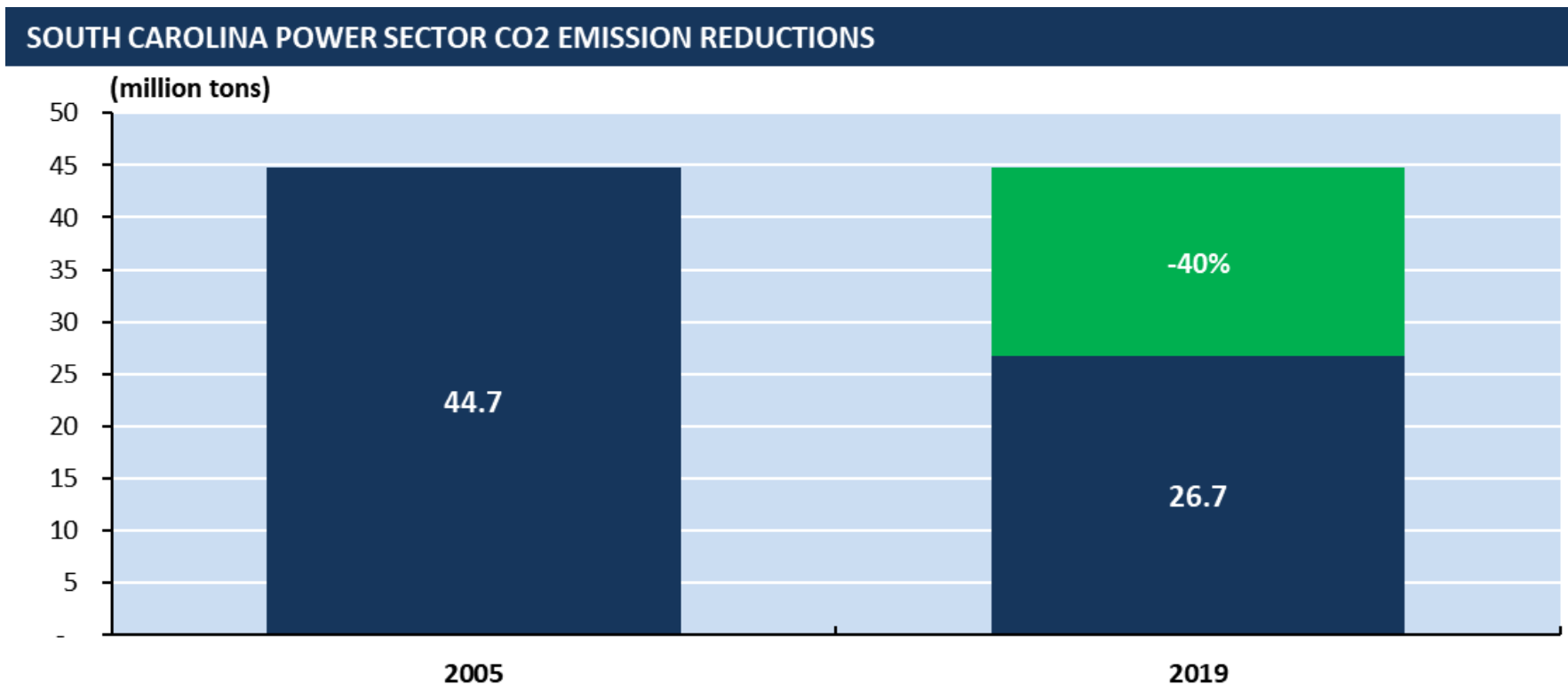
SOUTH CAROLINA POWER SECTOR NOx EMISSIONS



Source: U.S. Energy Protection Agency

Met Obama CPP

- Since 2005, South Carolina has lower CO2 emissions from fossil fuel power plants by 40%
- Surpassing Obama's CPP mandate of 32%, below 2005 levels



Source: U.S. Environmental Protection Agency

Obama Climate Calculator

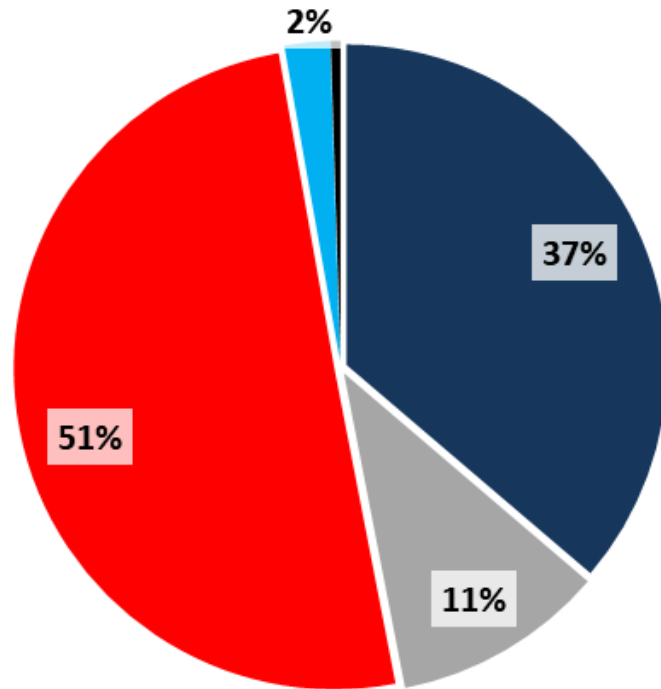
- Based on the Obama EPA, the closure of these three plants would not benefit the climate.

Temperature Averted by Cope Closure	0.000243 in the year 2100 (Celsius)
Temperature Averted by Wateree Closure	0.000056 in the year 2100 (Celsius)
Temperature Averted by Williams Closure	0.000063 in the year 2100 (Celcius)

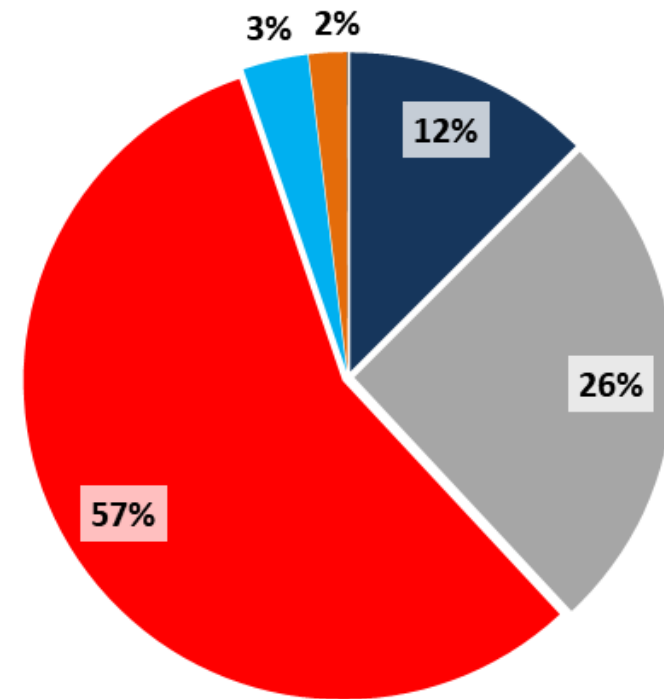
Balanced Energy Mix

- Coal dropped from 37% of electric generation to 12% over 10 years
- Coal is reliable and a hedge against natural gas prices

SOUTH CAROLINA 2010 GENERATION MIX



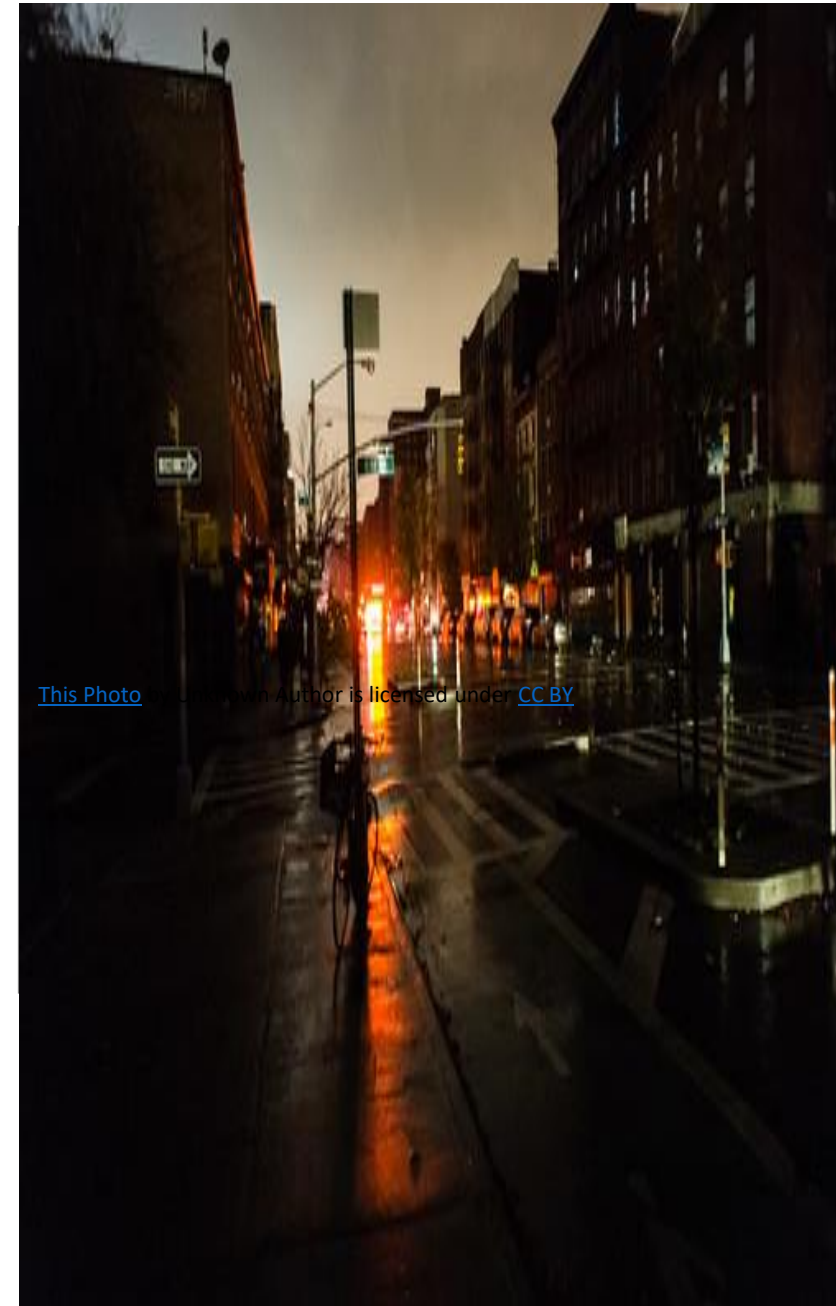
SOUTH CAROLINA 2020 GENERATION MIX



Source: U.S. Department of Energy, Energy Information Administration

Winter Storm Elliott

- 1.1 million without power (NC, PA, TN, VA)
- 72 Recorded deaths
- Duke Power Carolina's President "We are going to have to change our thinking. Obviously providing reliable service is our number one priority. We failed to do that".



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THE WALL STREET JOURNAL.

Old Coal Plant Nearing Retirement, but Now It's Needed to Keep the Lights On



WE Energies, Alliant Energy reverse green course, will keep coal plants open

RealClear Energy
America's Emerging Energy Crisis

ENERGY NEWS NETWORK

Grid concerns could prolong coal plant use

The Intelligencer.
Wheeling News-Register

Government Foolish To Believe We Can Abandon Fossil Fuels

THE HILL

Don't write off coal. We need it to ensure power grid reliability

THE ROANOKE TIMES

Kandrach: Inflation, rising energy prices could squeeze U.S. families

The Washington Post

A summer of blackouts? Wheezing power grid leaves states at risk.

Times **Record News**

America's power grid facing real trouble

SALEM NEWS

Recent blackouts serve as warning for Ohio power grid

SC PSC – Focus on Reliability

#1 PSC Postponement decision to close the plants

#2 Staff reverses its original findings

#3 PSC Early Closure was just ‘informational’

#4 Refuse to hold NC/SC joint IRP meetings

(NC law – cut carbon by 70% by 2030)

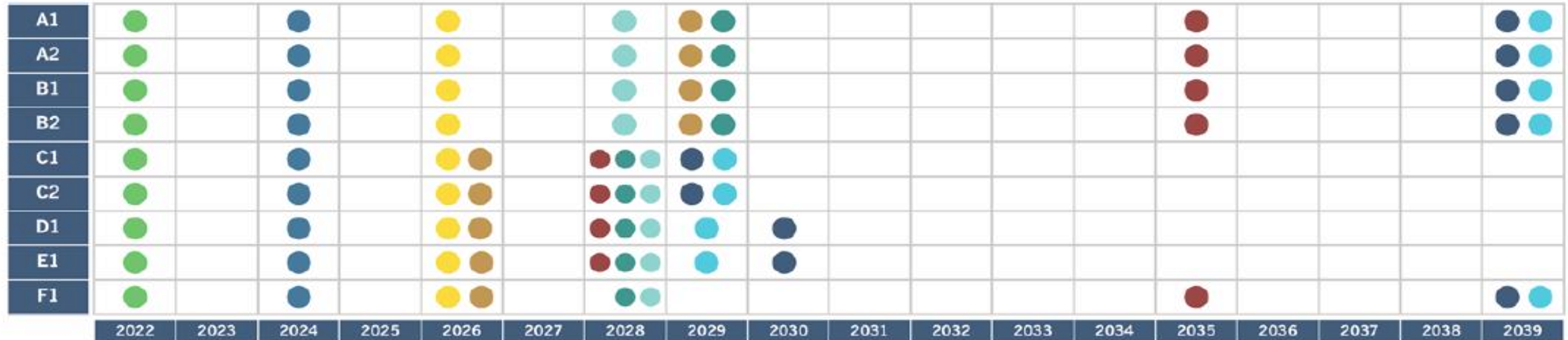
#5 IRP proposal without Carbon Tax

SC PSC Reject Duke Powers IRP 'D1' (Select 'B1')



FIGURE 1-A

DEC/DEP COMBINED SYSTEM COAL RETIREMENTS BY PORTFOLIO



LEGEND:

Allen 1 & 5	Blue	Belews Creek 1	Dark Blue	Roxboro 1 & 2	Dark Green
Allen 2 - 4	Green	Belews Creek 2	Light Blue	Roxboro 3 & 4	Light Green
Cliffside 5	Yellow	Marshall 1 - 4	Red	Mayo 1	Brown

* Cliffside 6 operates at 100% natural gas in all alternate portfolios starting in 2030

- Mayo 1 closure is pushed back 3 years
- Belews Creek 1 closure pushed back 10 years
- Belews Creek 2 closure is pushed back 10 years
- Marshall 1 – 4 closure is pushed back 7 years
- Roxboro 1,2 closure is pushed back 1 year

36.4 MMT
based on 2022

Clemson University Polling

- Collegians for a Constructive Tomorrow (CFACT)
- Clemson survey shows 70% of students support use of coal for electricity

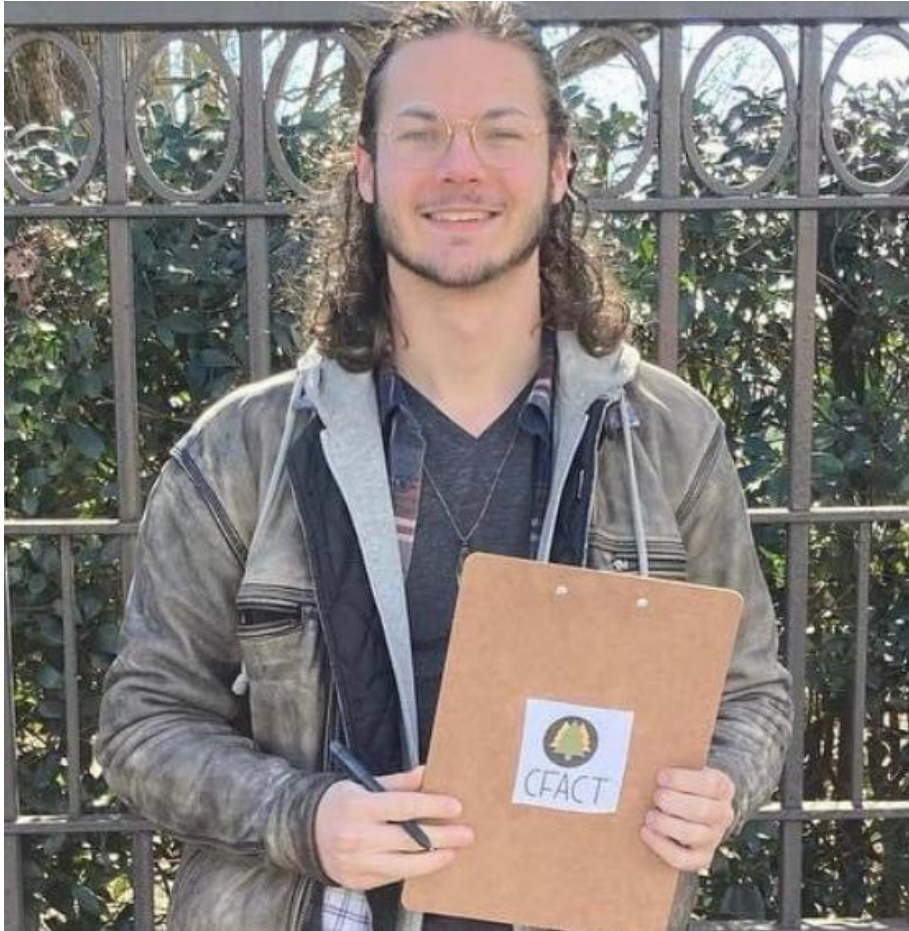




“Do you support the use of coal to power electricity in South Carolina?”

- Students Polled 985
 - YES – 689
 - No -145
 - Unsure – 151
-
- “This shows us only 15% of the students opposed coal fueled power”.
 - Adam Houser, Director





The Pro-coal Drumbeat

- Copy of the CFACT Survey was sent to:
 - all 7 PSC Commissioners
 - key legislative leadership
 - governors office

Working with Governor McMaster

Chairman of RGA and SSEB

Support of H.R. 1 (U.S. House of Representatives)

PowerSC

18,000 jobs/\$10 Billion
GROW OUR POWER RESOURCES

Joint Letter to FERC

“Must promote thermal power generation by all possible means”.



South Carolina PSC - Elections

- 7 PSC Commissioner
- Elected by the state general assemble
- 3 Commissioner Up for Election this May 22 – June 20
- 4 more elected in 2024.



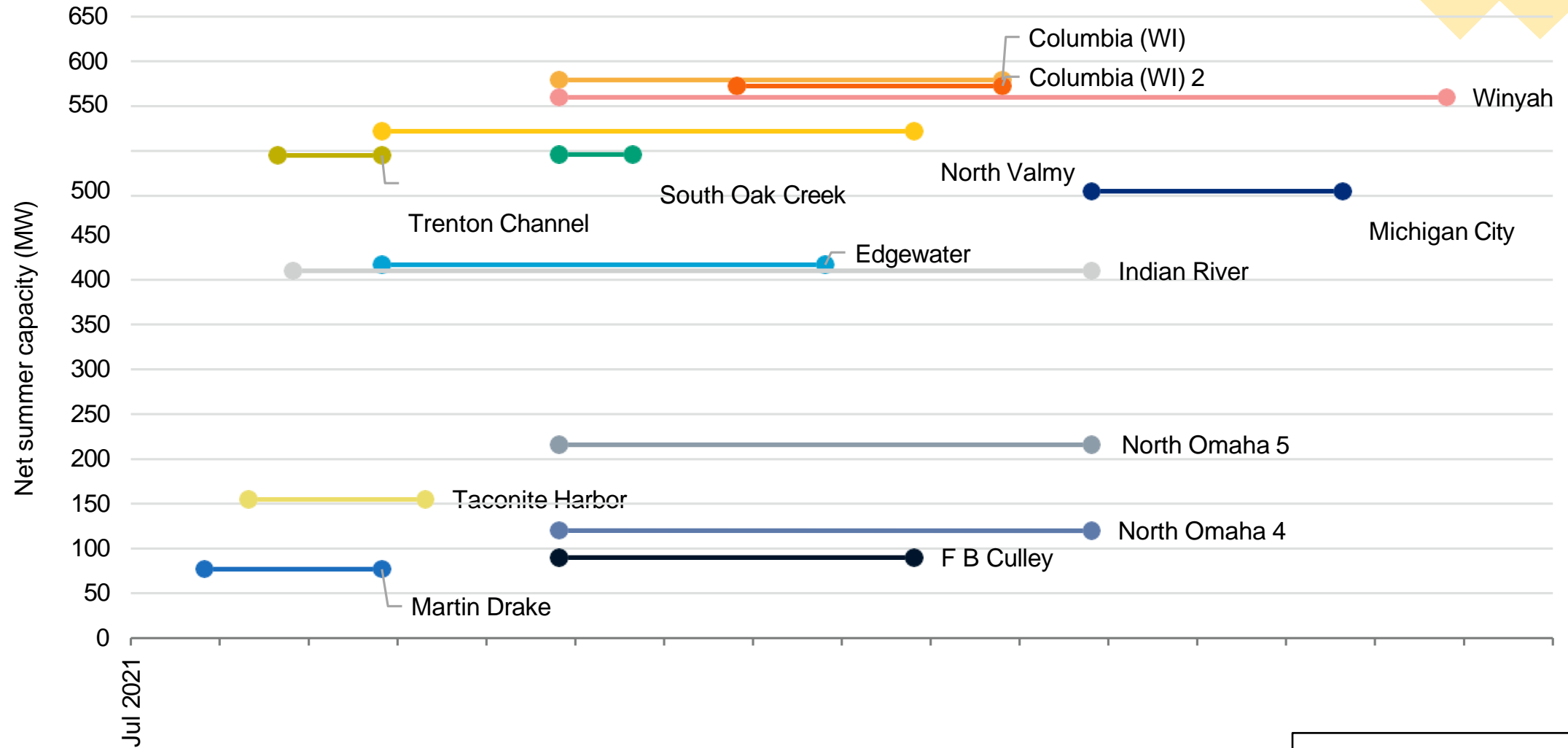
Florence Belser

Tom Ervin



Justin Williams

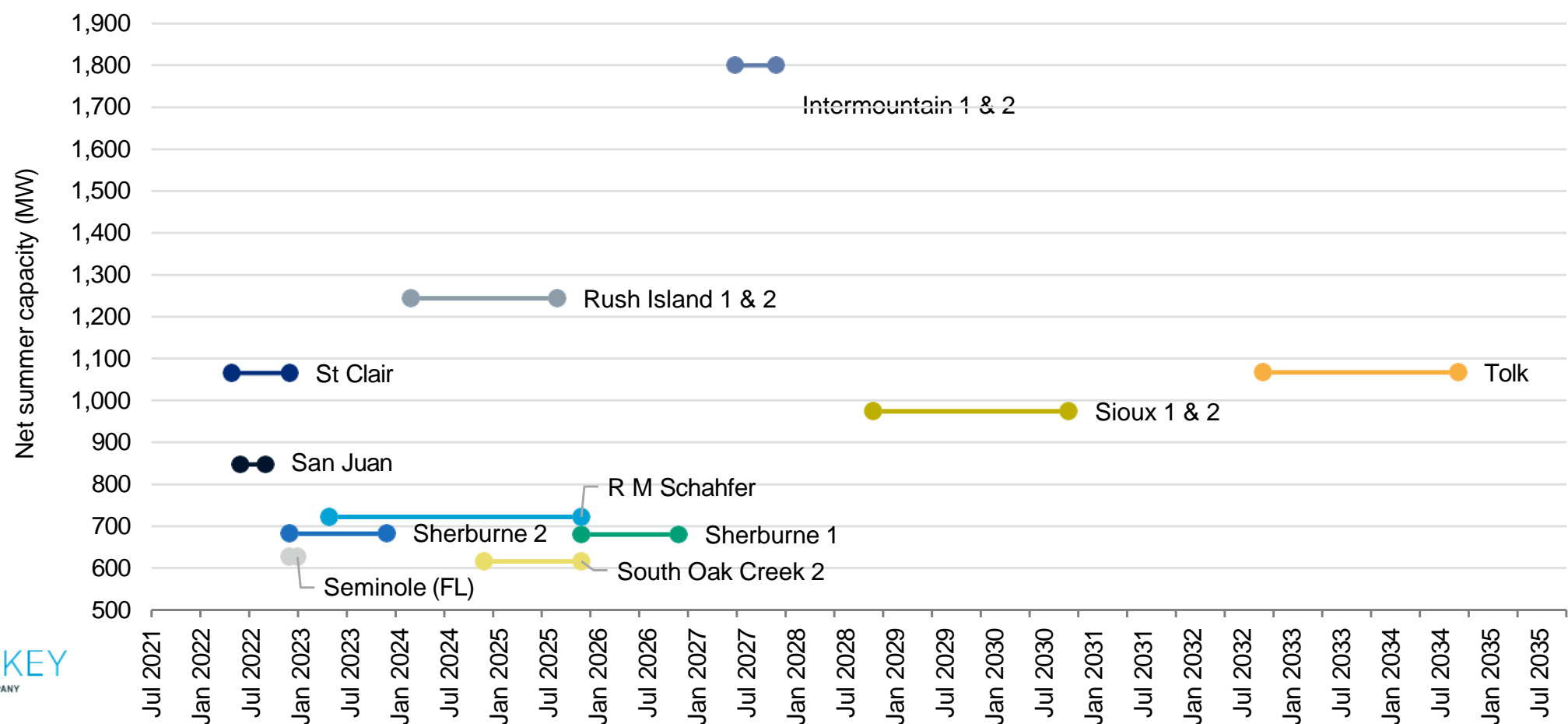
US coal plant retirement extensions (10 - 600 MW)



Six-month Intervals

The 40 coal units depicted here represent 16,734 MW of coal-fired generation capacity

US coal plant retirement extensions (>601 MW)



A stack of architectural blueprints is shown on the left side of the image. The blueprints are rolled up and partially unrolled, revealing various technical drawings with dimensions, lines, and annotations. The paper has a light blue tint, and the drawings are in black ink. The background is a light, neutral color.

What's Next?

- Developing comprehensive **'Reliability and Resilience'**
- Billboards **Stop South Carolina from Implementing Biden's 'Green New Deal'**

Warning Signs



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- After proclaiming it will be the first state to be fossil-fuel free for electricity, California experienced **3 million** of citizens without power during a heat wave in August of 2019.
- Official records proclaim that lack of electricity during Winter Storm Uri's in 2021 cost the lives of **247 people** in Texas. The five-day event caused an estimated **\$100 billion** in economic damage to Texas
- On Christmas eve 2022, electric utilities on the east coast experienced **rolling blackouts** throughout Virginia. North Carolina and Tennessee. Some **4 million** customers were without power for **up to 8 hours**. In New York, official records report 11 residents died due to lack of heat in their apartments.



Questions?