



NC SUSTAINABLE
ENERGY ASSOCIATION

Energy Actions – North Carolina

9.28.2023

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NC SUSTAINABLE
ENERGY ASSOCIATION

NC Sustainable Energy Association's mission is to drive policy and market development to create clean energy jobs, economic opportunities and affordable energy that benefits all of North Carolina.

Since
197

8



Policy

- Advocacy
- Tracking and Updates
- Coalition Building

- NC Utilities Commission
- NC General Assembly
- Executive Branch

Where We Work



NC Economic Success

A light gray map of the United States is centered on the page. A dark gray arrow originates from the top-left corner of the map and points towards the state of North Carolina.

\$59B Total Economic Impact

2007-2022

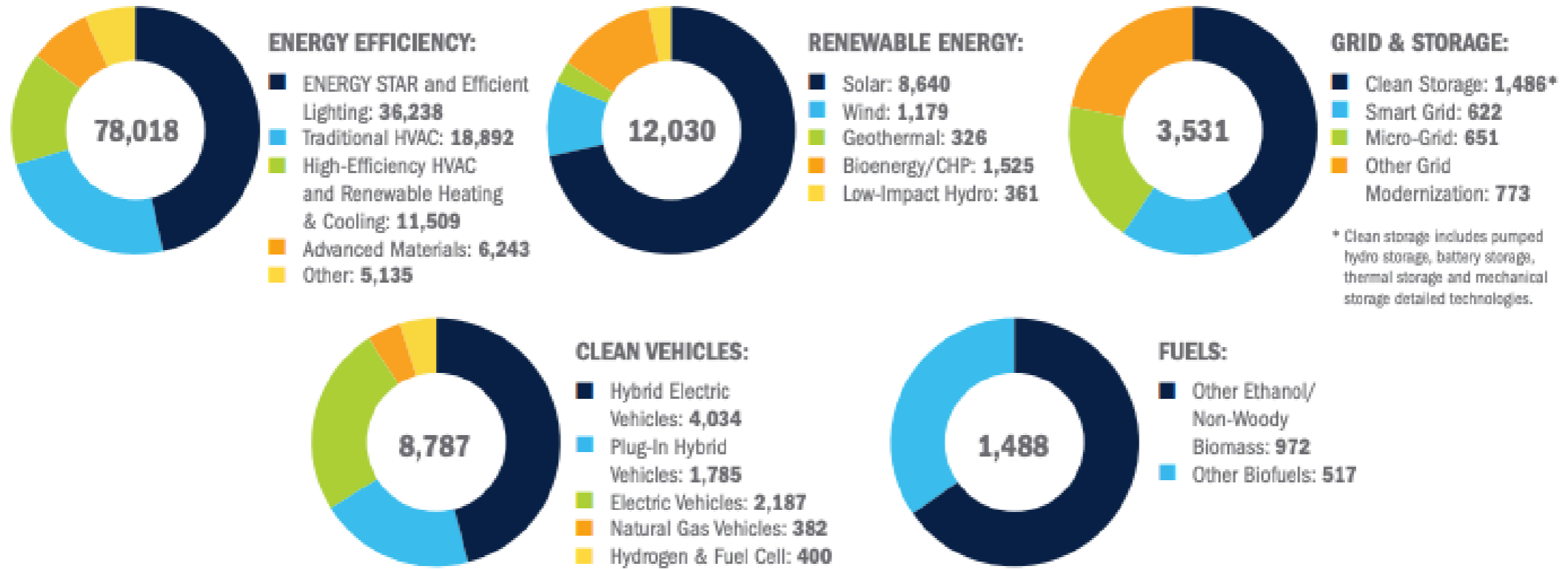
103,854 Jobs

2022

2,800+ Firms

Clean Jobs – In Focus

Fig. 4 // CLEAN ENERGY EMPLOYMENT by subsector 2021





Jobs, Jobs, Jobs...

AUTOBODYNEWS
AUTOBODYNEWS.COM

REGIONAL & NATIONAL COLLISION REPAIR NEWS YOUR SHOP NEEDS!

New EV Charger Manufacturing Facility Set to Open in Durham, NC

AP

U.S. NEWS

Vietnam car maker begins build for North Carolina electric vehicle plant that will employ thousands

WSOC-TV



Atom Power's 205-job expansion in Huntersville up for Mecklenburg County incentives

FOX 8

NORTH CAROLINA NEWS

Toyota ups investment for future battery plant at Greensboro-Randolph Megasite to \$5.9 billion

WFAE 90.7

CHARLOTTE'S NPR NEWS SOURCE

Albemarle plans \$200M lithium research center in Charlotte

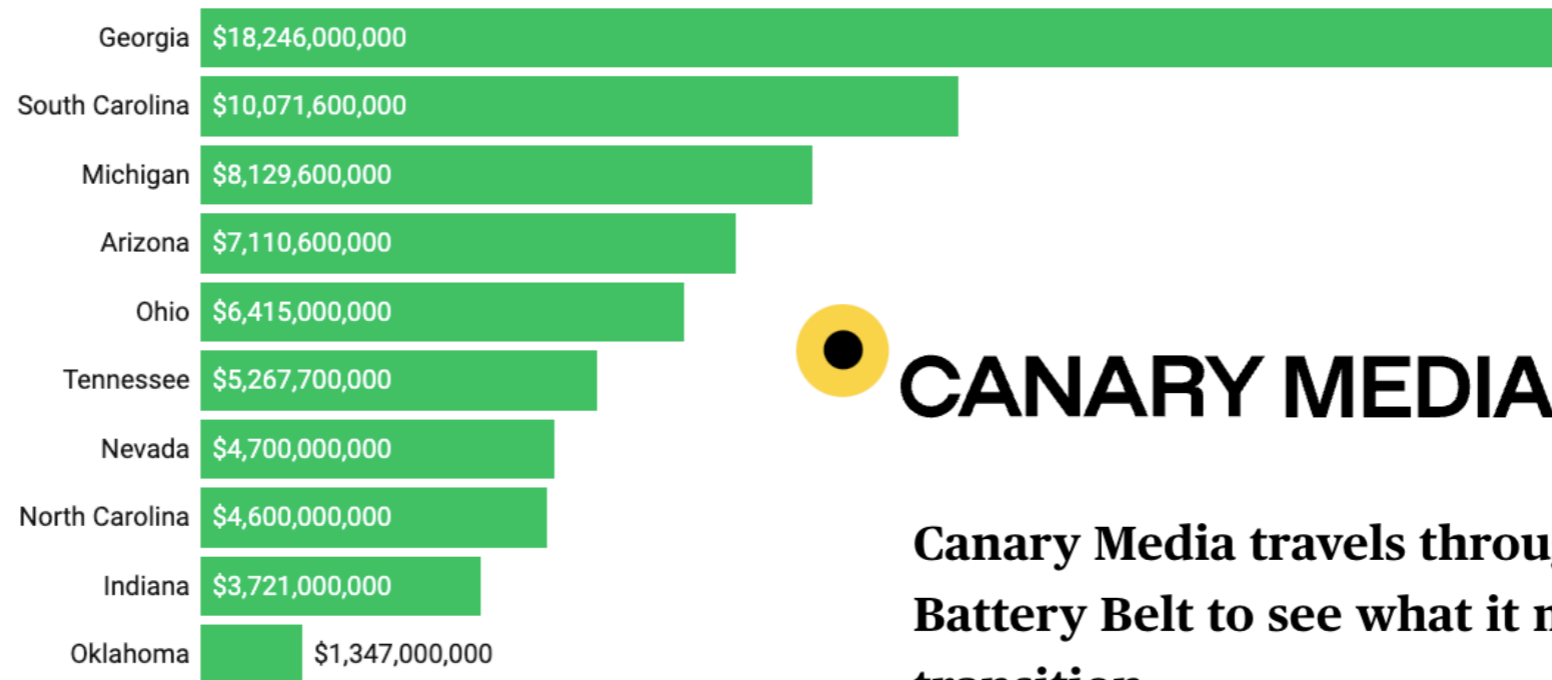




“Battery Belt” and IRA

Top 10 states for new clean energy manufacturing investments

Announced investments by state, August 2022–August 2023



Canary Media travels through the fast-emerging Battery Belt to see what it means for the clean energy transition.





State Policy Leadership - How'd We Get Here?

35%

North Carolina Renewable Energy Tax
Credit (Expired 2015)

2003

Clean Smokestacks Act

PURPA

Public Utility Regulatory Policies Act

2007

Renewable Energy and Energy Efficiency
Portfolio Standards (REPS)





How'd We Get Here? (2017)

2

TOP 10 SOLAR STATES

STATE RANKING BASED ON THE CUMULATIVE AMOUNT OF SOLAR ELECTRIC CAPACITY INSTALLED THROUGH 2016

3,016 mw cumulative capacity
341,000 homes powered equivalent
7,112 solar jobs
297 watts per person
923 mw capacity installed



NORTH CAROLINA





HB 589

Competitive Energy Solutions for North Carolina

Competitive Procurement of Renewable Energy

Green Source Advantage Program

Solar Rebate Program

Solar Leasing

Community Solar Program

Net Energy Metering





HB 951

Power sector emissions reductions

- 70% by 2030
- Carbon neutrality by 2050
- Carbon Plan

Coal Retirement

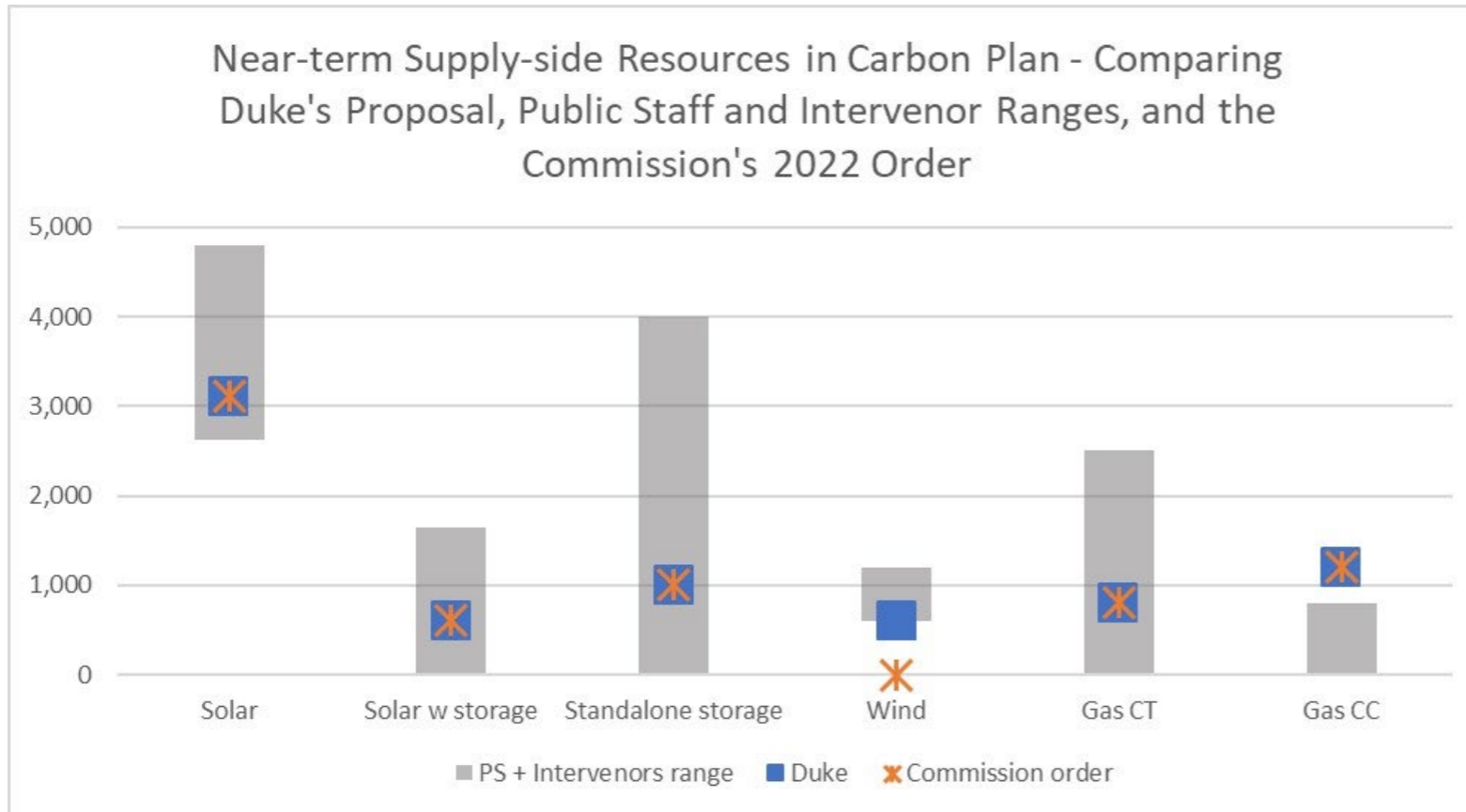
Competitive Procurement

Regulatory Reform





2022 Carbon Plan



* Courtesy – Southern Alliance for Clean Energy







- Coal – Online through 2035
- Natural Gas – Approved for planning purposed 2GW of natural gas generation
- SMR - \$75 million for development
- Solar – 1200MW (2022), 2350MW (23/24)
- OSW – Conduct a wind study
- Onshore Wind – conduct stakeholder sessions
- EE – 1% eligible load reduction
- 14 transmission upgrade projects approved
- Justice & Equity – conduct stakeholder engagement





2024 Carbon Plan

Table NC-1: Reconciliation of 2022 Carbon Plan and 2023-2024 CPIRP Proposal – New Supply-Side Resources for Execution²⁸

Resource MW amounts	2022 Selection	CPIRP	Additional to 2022 CP	2023 NTAP Progress	CPIRP Proposed Near-Term Actions 2024–2026
 Solar	3,100	6,000 by 2031	2,700 to 3,150	<ul style="list-style-type: none"> - 2022 SP: 964.7¹ - 2023 SP/SPS: 1,435¹ - Continue RZEP 1.0 projects 	<ul style="list-style-type: none"> - Continue RZEP 1.0 projects and advance RZEP 2.0 projects.² - 2024 Procurement: 1435 - 2025–2026 Procurement: target 2,700 to 3,150
 Battery Storage ³	1,600	2,700 by 2031	1,100	<ul style="list-style-type: none"> - Stand-alone: progressing development on 1000⁴ - 2023 Solar RFP targeting 260 SPS 	<ul style="list-style-type: none"> - 2024 to 2026: Develop 650 stand-alone, target procurement of 790 of SPS (450 SPS incremental to 2022 Carbon Plan)
 Onshore Wind	0	1,200 by 2033	1,200	<ul style="list-style-type: none"> - Carolinas site screening evaluation 	<ul style="list-style-type: none"> - Site feasibility and development for Definitive Interconnection System Impact Study (“DISIS”) and 2031–2033 in-service, respectively⁵ - 300 for 2025 DISIS - 450 for 2026 DISIS - 450 for 2027 DISIS
 CT ⁶	800	1,700 by 2031	900	<ul style="list-style-type: none"> - Generator Replacement Request (“GRR”) - Pre-Certificate of Public Convenience and Need (“CPCN”) for 2 CTs (2029) 	<ul style="list-style-type: none"> - 2024: CPCN for 2 CTs (2029) - 2025: CPCN for 1 CT (2030) - 2026: CPCN for 1 CT (2032)
 CC ⁶	1,200	4,080 by 2032	2,880	<ul style="list-style-type: none"> - GRR - Pre-CPCN for 1 CC in-service beginning of year 2029 	<ul style="list-style-type: none"> - 2024: CPCN for 1 CC (2029) - 2025: CPCN for 2 CCs (2030, 2031)
 Pumped Storage Hydro	0	1,700 by 2034 ⁷	1,700	<ul style="list-style-type: none"> - Entered 2022 queue - Issued major equipment RFP - Initial construction estimates - Continued Federal Energy Regulatory Commission (“FERC”) license activities 	<ul style="list-style-type: none"> - 2024: SC Certificate of Environmental Compatibility and Public Convenience and Necessity (“CECPCN”) - 2025 and 2026: File NC Out of State CPCN, file final FERC application

*Source – Duke Energy





Your Energy Actions

Get Involved – Join groups like NCSEA

- Find out what rebates/incentives are available to you:
 - Rewiring America IRA Savings Calculator
 - DSIRE USA
 - FuelEconomy.Gov
- Interested in Solar?
 - NC Consumer Guide to Solar
 - Solarize the Triangle
- Engage with local government and universities
 - City of Raleigh CAP
 - NCSU Office of Sustainability



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