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Introduction

The Southern United States is uniquely positioned in the climate conversation. The clean energy transition promises the region abundant economic benefits, since the South is well-suited for offshore wind and has ample opportunity for solar. Harnessing the benefits of the clean energy transition and addressing climate change is urgent, as the region is already experiencing major climate impacts, including coastal destruction, extreme heat, lengthened and worsened hurricane seasons, and more.

As this briefing book details, states in the South are beginning to implement laws that promote cheaper, cleaner energy and address climate change. To keep this momentum progressing, Southern states can learn from previous successes within their region and from states with similar political contexts. There is no need to reinvent the wheel when tactics have already proven effective in neighboring or similar states. This briefing book seeks to provide a pool of successful climate and clean energy policies in states across the South and beyond for state legislators to reference as they are looking forward to next sessions. It was developed by NCEL staff, who surveyed policies across the South and states in similar political and economic contexts for best practices and examples. We want to thank colleagues at Climate Cabinet Education, Conservation Voters of South Carolina, and Green For All for their feedback and recommendations as well.

Contents of this Briefing Book

We cover nature-based solutions, transportation, a just transition and workforce support, buildings, grid regionalization and utility regulation, clean energy, and adaptation and coastal resilience. Each section includes a description of the policy, sample legislation from Southern states and others, and resources. We include a detailed analysis of a key piece of omnibus legislation, the South Carolina Energy Freedom Act.

Climate Solutions for Southern States

Southern states are creating tens of thousands of new jobs in the clean energy and clean transportation sectors. Residents are seeing the co-benefits of climate action, including lower energy bills, better air quality, and a higher quality of life. Increasing extreme weather demands the most ambitious actions from all of us, but climate policy is never a one-size-fits-all solution. Solutions in the South need to cater to its specific political, economic, and cultural contexts. This briefing book provides a reference point for state legislators in the region of what’s worked well so far. We hope it is just the beginning.
Overview

Resilience and adaptation planning has come to the forefront as a policy that tends to have bipartisan support and has been a success for the region. The South is afflicted by several climate-induced disasters including hurricanes, flooding, extreme heat, and drought. With Florida experiencing a particular increase in sea level rise affecting its coastal cities and high intensity hurricanes, a flurry of legislation establishing resilience offices, grant programs, data collection, and new building standards have passed in recent years.

Additional Resources

- National Caucus of Environmental Legislators - Coastal Resilience Policy Options and Coastal Hazards and Risks
- Florida Department of Environmental Protection - Florida Adaptation Planning Guidebook and Post-Disaster Redevelopment Planning: Addressing Adaptation During Long-Term Recovery
- Environmental Protection Agency Smart Growth - Regional Resilience Toolkit
- Southern Environmental Law Center - The Changing Coast: interactive map showing how rising seas and a changing climate are reshaping the Southern coast

Legislation

**Indicates bipartisan sponsorship**

- **Florida H.B.7019/S.B.1954 (enacted 2021):** Established Resilient Florida Grant Program to fund costs of community resilience planning; required the Department of Environmental Protection to develop annual Statewide Flooding & Sea Level Rise Resilience Plan; established Florida Flood Hub for Applied Research & Innovation.
- **Florida S.B.2514 (enacted 2021):** Created the Resilient Florida Trust Fund as a funding source for the Resilient Florida Grant Program and the Statewide Flooding and Sea Level Rise Resilience Plan.
- **Florida C.S./C.S./S.B. 178 (enacted 2020):** Prohibited state-financed constructors from commencing construction of certain structures in coastal areas after a specified date without first taking certain steps regarding a sea level impact projection study.
- **Florida S.B.1094 (enacted 2015):** Required consideration of future flood risk from storm surge and sea level rise in local government comprehensive plans..
- **Florida CS/H.B.7053 (enacted 2022):** Established Statewide Office of Resilience and Chief Resilience Officer; required the Department of Transportation to develop resilience action plan for State Highway System; revised vulnerability assessment requirements for non coastal communities; etc.
- **South Carolina S.B.0259 (enacted 2020):** Established the South Carolina Office of Resilience with a Chief Resilience Officer to develop a statewide resilience plan; created the Disaster Relief and Resilience Reserve Fund and Resilience Revolving Fund.
- **Texas H.B. 531 (enacted 2021):** Required all landlords to let prospective tenants know in writing whether their property has previously flooded or if it sits in a 100-year floodplain.
- **Virginia S.B.756 (enacted 2022):** Created the Resilient Virginia Revolving Fund to support loans, refinance projects, or provide grants for local governments to advance resilience endeavors.
Overview

Reducing emissions from buildings has multiple co-benefits, including lower energy bills, more insulated housing, and better indoor air quality. Reduced energy bills can be particularly beneficial to low-income households, who spend three times more of their income on energy costs compared to the median spending of non-low-income households. This is particularly salient in the South, where residents are more cost-burdened than in any other part of the country, and one out of every three people in the region has trouble paying their energy bills.

Legislation

**Indicates bipartisan sponsorship**

- **Kentucky S.B.70 (enacted 2014):** Created the Energy Efficiency Program for State Government Buildings to provide for implementation of low cost/no cost energy conservation measures, engineering analyses, energy efficiency measures, building improvements, and monitoring of results for state-owned or state-leased buildings.

- **Kentucky H.B.33 (enacted 2022):** Strongly encouraged all school districts undertaking the construction of new school building to: meet or exceed efficient school design standards in planning and designing, use life-cycle cost analysis to evaluate different design proposals; and consider the possibility that each new school building or major renovation of a building could be a net zero building.

- **Montana S.B.150 (enacted 2015):** Increased the amount of universal system benefits funds used by a public utility for low-income energy and weatherization assistance.

- **Pennsylvania H.B.1421 (enacted 2022):** Created the Whole-Home Repairs Program to pay directly for new roofs, septic systems, and other structural repairs in order for households to qualify for energy efficiency upgrades through the Weatherization Assistance Program.

- **Utah H.B.235 (enacted 2020):** Created a Voluntary Home Energy Information Pilot Program; directed the state Office of Energy Development to “create a home energy performance score system.”

- **West Virginia H.B.2667 (enacted 2021):** Created a cost savings program for assessment and implementation of energy savings goals in state buildings; required energy-savings contracts to include provisions relating to energy cost savings guarantees and deficiency payments; established a goal to reduce all state buildings’ electricity, natural gas, oil and steam energy usage by 25% below 2018 levels by 2030.

Additional Resources

- **The Greenlining Institute** - Equitable Building Electrification: A Framework for Powering Resilient Communities

- **Rocky Mountain Institute, Physicians for Social Responsibility, Mothers Out Front, Sierra Club** - Gas Stoves: Health and Air Quality Impacts and Solutions

- **National Caucus of Environmental Legislators** - Green Buildings Resources and Sample Legislation

- **Rocky Mountain Institute** - It’s Time to Incentivize Residential Heat Pumps

- **Green & Healthy Homes Initiative** - Leading with Equity and Justice in the Clean Energy Transition: Getting to the Starting Line for Residential Building Electrification

- **US Green Building Council** - Resources for State Legislators
Overview

South Carolina has been the true leader in the region on regulating its utilities following the VC Summer nuclear project failure. Since then, South Carolina legislators have created new regulations for its utilities through an oversight committee and mandated annual generation plans.

Despite the South being one of two main regions of the United States without a wholesale competitive market, there has been limited legislative movement to create one. Utilities have begun the process of forming the Southeast Energy Exchange Market (SEEM), which would allow bilateral trading between the largest utilities in the region. Legislative oversight is needed to ensure the SEEM reduces costs and spurs the adoption of renewables, rather than increasing energy burdens and isolating independent clean energy users.

Legislation

**Indicates bipartisan sponsorship**

- **Kansas H.B.2072** (enacted 2021): Permitted utilities to refinance remaining debt on retiring coal-fired power plants by repackaging debt as ratepayer-backed bonds at far lower interest rates.

- **Missouri H.B.734** (enacted 2021): Authorized investor-owned utilities to apply to the Missouri Public Service Commission to finance “energy transition costs” through the issuance of securitized utility tariff bonds.

- **North Carolina H.B.951** (enacted 2021): Authorized the utilities commission to take all reasonable steps to achieve a 70% reduction in carbon dioxide emissions from electric public utilities by the year 2030, and carbon neutrality by the year 2050; authorized performance-based regulation; proceeded with securitization rulemaking.

- **South Carolina H.B.4378** (Passed House 2018): Created the Utility Oversight Committee.

- **South Carolina H.4940** (enacted 2020): Formed a committee in the legislature to investigate a range of market-based reforms, including participation by SC utilities in a statewide or regional wholesale market.

- **South Carolina H.3194** (enacted 2021): Required Santee Cooper to obtain Public Service Commission approval of its Integrated Resource Plan, major facilities, and long-term Power Purchasing Agreements.

- **South Carolina A.236, R.241, S.1189** (enacted 2014): Enabled distributed energy resources; strengthened the Public Utility Regulatory Policies Act (PURPA) market.

Additional Resources

- Department of Energy - Advancing Equity in Utility Regulation

- American Council on Renewable Energy (ACORE) - Energy Market Design and the Southeast United States

- National Caucus of Environmental Legislators - Grid Modernization, Market Regionalization, and Utility Reform Sample Legislation

- Rocky Mountain Institute - Securitization in Action: How US States Are Shaping an Equitable Coal Transition

- Southeast Energy Efficiency Alliance - State Guides to Utility Energy Efficiency Planning

- Southern Alliance for Clean Energy - Southeast Energy Exchange Market (SEEM): What we know, Q&A-style

- Solar United Neighbors - The People’s Utilities Playbook
Overview

The influx of the clean energy transition has the potential to bring great economic benefits to the Southern region. However, it is imperative that states take action to ensure new clean energy jobs are well-paid and protect communities at risk of losing jobs from the retirement of fossil fuel facilities. For example, West Virginia, a state severely impacted by the closing of coal mines, has made progress to ensure its coal communities are financially secure during the transition with legislation such as H.B.4479 and other measures.

Legislation

**Indicates bipartisan sponsorship**

- **Colorado H.B.19-1314 (enacted 2019):** Created a Just Transition Office; required a utility that proposes accelerated retirement of a coal-fueled electric facility to submit a workforce transition plan at least 6 months before the retirement of the facility.

- **Montana S.B.264 (enacted 2019):** Set a prevailing wage for Colstrip Power Plant through the end of generation activities.

- **Montana S.B.191 (enacted 2019):** Allowed counties to establish a coal trust fund for future revenue losses, to address “the need for communities to be able to prepare for reductions in coal mining and coal-fired electric generation.”

- **South Carolina H.B.3194 (enacted 2021):** Required the Public Service Authority to implement a plan to provide employees affected by coal station closures with access to job training programs and provide economic development opportunities in the communities where the retired coal stations are located. (Section 23)

- **West Virginia H.B.4479 (enacted 2022):** Established the Coalfield Communities Grant Facilitation Commission to administer state funds to local entities the required matching portion for certain grants; facilitated assistance to these local entities by providing access to grant writing expertise and support.

What is a Just Transition?

- Just Transition is the concept that as the economy moves from being fossil fuel-based to being clean energy-based, former fossil fuel workers and communities are not left without any support. Economic transitions can be disorganized and disruptive or they can be intentional and pro-worker; proponents of a just transition advocate for policies that will provide economic replacement for fossil fuel communities and ensure that clean energy jobs are good jobs. - Institute for Human Rights and Business

Additional Resources

- National Caucus of Environmental Legislators - Climate Justice Policy Options and Climate Energy Jobs and a Just Transition Policy Examples

- Appalachian Voices - Restoration and Renewal: The New Appalachian Economy

- Blue Green Alliance - State-Based Policy Toolkit: Policies to Build a Cleaner, Safer, More Equitable Economy

- Just & Equitable Transition - Tools to Help Plan For and Fund a Just & Equitable Transition From Fossil Fuel Power Plants and Mining
Overview

With the South’s abundance of coastlines and agricultural lands, nature-based solutions can play a large role in the region’s mitigation and adaptation to climate change. Virginia has taken the lead on nature-based solutions by creating an intergovernmental taskforce to study the ways nature can be used to sequester greenhouse gas emissions and there are great opportunities for other Southern states to make progress as well.

What are Nature-Based Solutions?

“Nature-based solutions refer to a suite of actions or policies that harness the power of nature to address some of our most pressing societal challenges, such as threats to water security, rising risk of disasters, or climate change.” Examples include: restoration of habitats, water resource management, disaster risk reduction, and green infrastructure. - World Wildlife Fund

What is Carbon Sequestration?

“Carbon sequestration is the process by which atmospheric carbon dioxide is taken up by trees, grasses, and other plants through photosynthesis and stored as carbon in biomass (trunks, branches, foliage, and roots) and soils. The sink of carbon sequestration in forests and wood products helps to offset sources of carbon dioxide to the atmosphere, such as deforestation, forest fires, and fossil fuel emissions.” - United States Department of Agriculture Forest Service

Legislation

**Indicates bipartisan sponsorship**

- **Georgia H.B.355 (enacted 2021):** Created a Georgia Carbon Sequestration Registry focused on forest protection and embodied carbon in building materials.

- **Nebraska L.B.243 (enacted 2019):** Created a healthy soils task force under the Nebraska state Department of Agriculture responsible for developing a healthy soils initiative and a plan to carry it out.

- **Texas S.B.1118 (enacted 2021):** Created the On-The-Ground Conservation Program administered by the State Soil and Water Conservation Board; allowed project prioritization for funds including soil health improvements, erosion control, and carbon sequestration.

- **Virginia S.B.1374 (enacted 2021):** Established an intergovernmental taskforce to study and submit a report on how to use state land and marine resources for carbon sequestration.

Additional Resources

- Federal Emergency Management Agency - Building Community Resilience with Nature-Based Solutions

- U.S. Department of Agriculture - CarbOn Management & Emissions Tool Planner

- The Nature Conservancy - Coastal Resilience: Using nature-based solutions to protect Florida’s coasts

- National Caucus of Environmental Legislators - Nature-Based Climate Solutions Webpage

- World Wildlife Fund - Powering Nature: Creating the Conditions to Enable Nature-Based Solutions

- Nerds for Earth - State Soil Health Policy Map

- Izaak Walton League of America - State & Local Soil Health Strategies
Overview

The South has the potential to take advantage of its wide variety of renewable energy generation capacity. North Carolina and Florida currently sit in the top 5 states for solar energy generation, and Georgia sits in the top 10. Virginia is leading the charge for offshore wind energy in the region, and North Carolina is following close behind with South Carolina and Louisiana both considering legislation to evaluate their offshore wind industry capacity. Although renewable energy generation capacity is high in the region, limited legislation has been passed to encourage its development and some legislation has even discouraged further progress.

Legislation

**Indicates bipartisan sponsorship**

- **Louisiana H.B.165 (enacted 2022):** Expanded the maximum acreage per offshore wind lease from 5,000 acres to 25,000 acres.

- **Louisiana H.B.807 (passed House 2022):** Creates the Disaster Resiliency Battery Incentive Program to provide individuals, nonprofit organizations, and disaster centers with reimbursements for energy storage purchases.


- **North Carolina H.B.589 (enacted 2017):** Established the Competitive Procurement of Renewable Energy (CPRE) Program; required Duke Energy to reach 6,160 MW of utility-scale solar; required the creation of a program for large businesses, universities, and the military to directly procure renewable energy; required Duke Energy offer at least 20 MW of community solar per year for 5 years.

- **South Carolina H.J.R.4831 (enacted 2022):** Directed the Department of Commerce to conduct an economic development study to evaluate the state's business advantages, economic climate, and workforce readiness to create a roadmap to effectively compete in attracting offshore wind energy supply chain industries to the state.

- **Virginia H.B.234 (enacted 2020):** Established the Division of Offshore Wind to coordinate state agencies on offshore wind, including workforce development and stakeholder engagement.

- **Virginia H.B.1526 (enacted 2020):** Mandated 100% zero-carbon electricity grid by 2050; required closure of most coal-fired plants by the end of 2024; mandated 5,200 MW of offshore wind capacity by 2034; established energy efficiency standards for utilities; etc.

Additional Resources

- Clean Energy States Alliance - Advice for States on 100% Clean Energy Planning: The Process for Producing a Plan

- National Caucus of Environmental Legislators - Community Solar Fact Sheet and Offshore Wind Policy Options


- Local Solar for All - Local Solar Roadmap

- Southern Alliance for Clean Energy - Solar in the Southeast Annual Report

- The Center for the New Energy Economy - State Policy Opportunity Tracker for Clean Energy
Overview

In recent years, transportation has been an area for some progress amongst Southern states. The onset of funds from the Federal Infrastructure Investment and Jobs Act has only spurred more action in transportation, specifically with the requirement of creating electric vehicle deployment plans to receive certain funds. Transportation policy can also promote public and active transportation methods that reduce Vehicles Miles Traveled (VMT).

Additional Resources


- **Southern Alliance for Clean Energy** - Retained Transportation Fuel Spending in the Southeast: Electric Vs Internal Combustion Vehicles.

- **Southeast Electric Transportation Regional Initiative (SETRI)**

- **Southern Alliance for Clean Energy and Atlas Public Policy** - Transportation Electrification in the Southeast.

Legislation

*Indicates bipartisan sponsorship*

- **Georgia S.R.463 (enacted 2022)**: Created the Joint Study Committee on the Electrification of Transportation; and for other purposes.

- **Florida C.S./S.B.7018 (enacted 2020)**: Required the department to develop a master plan for electric vehicle charging station infrastructure along the State Highway System.

- **Louisiana S.B.467 (enacted 2022)**: Requires the initiation of necessary engineering, financial, and other studies to begin passenger rail service between Baton Rouge and New Orleans and along the Interstate 20 corridor.

- **Mississippi S.B.2887 (enacted 2022)**: Allowed the purchase of electric vehicles for student transportation.

- **Tennessee S.B.2602 (enacted 2022)**: Directed the state to study the cost, feasibility, and infrastructure of expanding railroad passenger service in this state.

- **Tennessee S.B.783/H.B.1384 (enacted 2017)**: Allowed Metro communities to create a specific district with design standards that will enhance and sustain a transportation corridor providing incentives to affordable housing, infrastructure, and private development.

- **Virginia H.B.2241 (enacted 2017)**: Created a project prioritization system with environmental quality as a factor to consider in the state transportation funding plan.

- **Virginia H.B.2282 (enacted 2021)**: Requires the Commission to submit a report recommending policy proposals for public electric utility programs to accelerate widespread transportation electrification with particular focus on low-income, minority, and rural communities.

- **Virginia H.J.542 (enacted 2021)**: Requests the Department of Rail and Public Transportation to conduct a two-year study of transit equity and modernization with emphasis on transit services and engagement opportunities for underserved and underrepresented communities.

- **Virginia S.B. 575 (enacted 2022)**: Beginning 2023, requires all agencies of the Commonwealth to utilize the total cost of ownership calculator prior to purchasing or leasing light-duty vehicles and to purchase electric vehicles unless the calculator clearly indicates that purchasing or leasing an internal combustion-engine vehicle has a lower cost of ownership.

- **West Virginia H.B.4492 (enacted 2022)**: Creates the Division of Multimodal Transportation to promote safe, efficient transportation, preserve rail, water and airway facilities.
Overview

The Energy Freedom Act (**SC A. 62, R. 82, H. 3659**) passed in 2019 changed the face of utility regulation and renewable energy development in South Carolina. This piece of legislation made South Carolina a leader in utility regulation for the benefit of the consumer. The Energy Freedom Act received bipartisan sponsorship.

Outcomes

- The effects of this law have been significant, with the newly armed Public Service Commission rejecting the Integrated Resource Plan of Dominion Energy South Carolina (DESC) in 2020 and rejecting the Solar Choice Metering proposal from Dominion Energy in 2021.

Notable Aspects of the Bill

- Enshrines consumer protections and rights including:
  - Protection from rising costs
  - Opportunities to reduce or manage their own energy usage
  - Right to electric rates that enable energy efficiency, demand response, or onsite distributed energy resources (DERs) to reduce their electricity usage
  - Right to obtain and use data collected by a utility on their individual energy consumption. (Sections 58-27-845 and 58-27-2660)

- Allows customers with solar panels (or other forms of renewable energy) to cover some or all of their monthly electric bills with energy they generate through net metering. (Sections 58-40-10, 58-40-20, and 58-27-2610)

- Encourages electric service providers to offer neighborhood community solar programs. (Section 58-41-40)

- Directs the Public Service Commission to promote access to solar energy projects for low- and moderate-income customers. (Section 58-41-40)

- Authorizes the Public Service Commission to open a generic docket to create programs for the competitive procurement of energy and capacity from renewable energy facilities by an electrical utility. (Sections 58-41-20, 58-41-20, and 58-33-110)

- Requires utilities to file a voluntary renewable program for commercial and industrial retail customers with a demand of 1 MW or more and allows participating customers to negotiate and contract directly with renewable energy suppliers. (Section 58-41-30)

- Requires the Public Service Commission to consider revisions to include energy storage and ensure efficient and timely processing of interconnection requests. (Section 58-27-460)

- Requires utilities to submit Integrated Resource Plans at least every 3 years and provide annual updates. Gives the Public Service Commission authority to approve, deny, or modify a utility’s Integrated Resource Plan. (Section 58-37-40)

Referenced Resources

- South Carolina Office of Regulatory Staff - South Carolina Energy Freedom Act
- Energy News Network - Commentary: With Energy Freedom Act, South Carolina takes steps toward resilience
- Southern Alliance for Clean Energy - Legislators Shine Light on Energy Competition in SC