

As North Carolina transitions to a clean energy future, the state is shifting from an economy powered by traditional fossil fuels to one powered by energy resources that reduce or eliminate carbon emissions. According to 2021 data from Duke Energy, the current resource mix for North Carolina's electricity grid is: Gas (34%) Nuclear (22%) Coal



Established in 1995, DSIRE is operated by the N.C. Clean Energy Technology Center at N.C. State University and is funded by the U.S. Department of Energy. This public resource, which includes summaries of more than 2,600 incentives and policies, is used by over 180,000 different people each month.



Incentives, grants, or financing: In previous years, a Renewable Energy Tax Credit program offered a credit equal to 35% of the cost of eligible CHP systems and other renewable energy property constructed, purchased or leased by a taxpayer and placed into service in North Carolina during the taxable year. This tax credit expired at the end of 2015.





North Carolina's Clean Energy and Energy
Efficiency Portfolio Standard (CEPS), originally
established as a Renewable Energy and Energy
Efficiency Portfolio Standard (REPS) by Senate Bill
3 in August 2007, requires all investor-owned
utilities in the state to supply 12.5% of 2020 retail
electricity sales (in North Carolina) from eligible
energy



Part 1 is for a single establishment at which renewable energy property is constructed, purchased, or leased and placed in service in North Carolina during tax year 2010. If you invested in renewable energy property at more than one establishment in 2010, complete a separate NC-478G for each establishment.) Type of Renewable Energy Property.



Part 1 is for a single establishment at which renewable energy property is constructed, purchased, or leased and placed in service in North Carolina during tax year 2011. If you invested in renewable energy property at more than one establishment in 2011, complete a separate NC-478G for each establishment.) Type of Renewable Energy Property.





The SREC program provides a means for Solar Renewable Energy Certificates (SRECs) to be created for every megawatt-hour of solar electricity created. The SREC is sold separately from the electricity and represents the "solar" aspect of the electricity that was produced.



In August 2007, North Carolina adopted the Renewable Energy and Energy Efficiency Portfolio Standard (REPS), which requires investor-owned utilities in the state to acquire up to 12.5 percent of



Renewable Energy Consumption: North Carolina: U.S. Rank: Period: find more: Renewable Energy Consumption as a Share of State Total 7.5 % 27 2022 Fuel Ethanol Consumption 11,781 thousand barrels 5 2022 Total Emissions: North Carolina: Share of U.S. Period: find more: Carbon Dioxide 115.6 million metric tons





After December 31, 2016, the commercial credit decreases to 10 percent. North Carolina Renewable Energy Income Tax Credit (RETC):

G.S.105-129.16A Credit is 35 percent of the cost of the "renewable energy property." Maximum commercial credit is \$2.5 million for each installation. Non-commercial limit is \$1,400-\$10,500 depending on purpose.



? Price of electricity. Per the US Energy Information Administration, North Carolina's average electricity rate in 2023 was 12.93 cents per kilowatt-hour. That's slightly below the national average of 16 cents/kWh. Your actual ???



On June 29, the North Carolina House and Senate voted to enact a compromise version of 2017 H589, titled "Competitive Energy Solutions for North Carolina." This major new energy legislation evolves and, in some respects, significantly expands solar business opportunities in North Carolina. The bill also establishes an 18-month moratorium





Utilities that are subject to these mandates must obtain renewable energy credits or certificates (RECs)???which represent the environmental benefits of one megawatt-hour of renewable energy generation. North Carolina enacted legislation that updated the requirement to 100% electricity sales from carbon-neutral generation by 2050 with a 70%



The North Carolina Clean Energy Technology
Center (NCCETC) has recently refreshed numerous
comprehensive summary maps within the Database
of State Incentives for Renewables and Efficiency
(DSIRE). DSIRE is recognized as the most
comprehensive source of information on clean
energy related policies and incentives in the United
States and is ???



North Carolina Laws and Incentives. Listed below are the summaries of all current North Carolina laws, incentives, regulations, funding opportunities, and other initiatives related to alternative fuels and vehicles, advanced technologies, or air quality. You can go directly to summaries of: State Incentives (11) Utility / Private Incentives (8)





The Toolbox for Renewable Energy Project
Development's State Solar Renewable Energy
Certificate (SREC) Markets page provides an
overview of SRECS and state markets as well as
resources to help you understand how SRECs
impact project development.



A REC represents the environmental attributes of 1 megawatt-hour (MWh) of electricity generated from renewable energy sources such as wind, solar, biomass and others. You can purchase RECs to match some or all of your electricity usage, allowing you to find the best combination to help reach your sustainability goals. North Carolina



Federal residential energy tax credits (including both energy efficiency and solar power) are currently available through the IRS for certain qualifying projects. North Carolina Department of Environmental Quality's State Energy Office, in collaboration with Advanced Energy, the North Carolina Clean Energy Technology Center, and the North





"State incentives for clean energy between 2007 and 2018, including the now expired North Carolina renewable energy investment tax credit and state appropriations for the Utility Savings Initiative, totaled \$1.2 billion. This has led to an additional \$1.4 billion in tax revenue for state and local governments, an overall positive fiscal



North Carolina Renewable Energy Tax Credit North Carolina offers a tax credit of 35percent of the cost of renewable energy property constructed, purchased or leased by a taxpayer and placed into service in North Carolina during the taxable year. The maximum credit for systems used for a business purpose is \$2.5 million, and the credit is



The North Carolina Clean Energy Technology
Center (NCCETC) has released an updated Word to
the Wise resource to help residential customers
become better informed consumers and
successfully navigate the upcoming home energy
rebate programs authorized under the landmark
Inflation Reduction Act (IRA).. Signed into law on
August 16, 2022, the ???





TVA is a national leader in carbon reduction with nearly 60% carbon-free energy generation.

Currently, TVA has over 8,000 megawatts of renewable energy in its portfolio. Adding North Carolina Swine, Poultry, and Biomass RECs are one way TVA continues to be in the top quartile for renewable energy production in the southeast United States.



On April 3, 2023, the North Carolina Business Court issued a decisive victory for taxpayers in a long-running dispute with the North Carolina Department of Revenue over the state's now-expired renewable energy tax credit program. The program was intended to encourage investment in North Carolina renewable energy projects. The Department originally supported the program, ???