



CHATHAM COUNTY COMMISSIONERS

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Karen Howard
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COUNTY MANAGER

Renee Paschal

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Resolution of the Chatham County Board of Commissioners

SUPPORTING A STATE AND NATIONAL GOAL OF 100% CLEAN ENERGY BY 2050 AND THE CREATION OF GREEN JOBS

WHEREAS, by the end of 2015, the Earth's average surface temperature has increased by about 1.0 degree Celsius (1.8 degrees Fahrenheit) since the late-19th century according to NASA;

WHEREAS, climate change is expected to increasingly impact North Carolina's temperatures, precipitation and sea level with harmful consequences in coming years;

WHEREAS, climate change and global average temperature increases are primarily due to human-caused fossil fuels emissions, including coal, oil and natural gas, according to the United Nations Intergovernmental Panel on Climate Change, National Academy of Sciences, American Meteorological Society, United States Environmental Protection Agency, United States Department of Defense, and numerous other leading scientific, academic and governmental authorities both in the United States and internationally;

WHEREAS, a final agreement of the United Nations Conference of Parties (COP21), which included the United States and a total of 195 nations, was reached in Paris, France on December 12, 2015, that states the aim is to "holding the increase in the global average temperature to well below 2 degrees Celsius above preindustrial levels and pursuing efforts to limit the temperature increase to 1.5 degrees Celsius above preindustrial levels" and entered into force on November 4, 2016;

WHEREAS, scientists have concluded the concentration of carbon dioxide, the leading greenhouse gas, in the Earth's atmosphere is currently and consistently over 400 parts per million (ppm) and will likely stay above this level for the indefinite future for the first time in millions of years;

WHEREAS, sixteen of the seventeen hottest years on record have occurred in the twenty-first century and 2016 is the hottest year on record;

WHEREAS, an increase in the global average temperature is having and will continue to increasingly have major adverse impacts, if not stopped by eliminating the use of fossil fuels, on both the natural and human-made environments due to longer, more intense heat waves,

prolonged droughts, spread of infectious diseases, rising sea levels, ocean acidification, wildfires, and more intense and frequent extreme weather events;

WHEREAS, these physical effects are expected to lead to water scarcity, food insecurity, increasing numbers of refugees, increased poverty, and the mass extinction of species;

WHEREAS, studies completed by the International Monetary Fund (IMF), the Risky Business Project, Duke University, and others point to the severe economic costs of climate change and continuing use of fossil fuel, estimating billions of dollars a year in costs nationally and trillions globally;

WHEREAS, leading economists, policy experts, and business leaders conclude that transitioning to a clean energy economy available for all would create millions of green jobs nationally, improve health and living standards, and boost economic growth in coming years;

WHEREAS, low-income communities and communities of color in North Carolina and the United States are inordinately exposed to pollution, that causes serious health problems such as cancer and asthma, from fossil fuels, including the dirtiest coal-fired power plants which produce coal ash, and need to be empowered and have access to educational tools and an awareness of climate issues;

WHEREAS, a Stanford University and University of California-Berkeley and other studies have concluded the United States commercial electricity supply could be based entirely on renewable energy by the year 2050 using current technologies and 80% renewable energy by 2030 while creating numerous green jobs;

WHEREAS, municipalities, organizations, businesses, and academic institutions throughout the world have set a goal to achieve carbon or climate neutrality by 2050 or earlier;

WHEREAS, over 1,000 mayors have joined the U.S. Conference of Mayors Climate Protection Agreement since 2005 to commit to significantly reduce carbon emissions in their cities to combat climate change;

WHEREAS, over 600 American colleges and universities have made a commitment to reduce greenhouse gases, including Appalachian State University, Blue Ridge Community College, Carteret Community College, Catawba College, Central Carolina Community College, Davidson College, Duke University, Elizabeth City State University, Fayetteville State University, Guilford College, North Carolina Central University, Queens University of Charlotte, Southeastern Community College, University of North Carolina at Chapel Hill, University of North Carolina at Charlotte, University of North Carolina at Greensboro, University of North Carolina at Pembroke, Wake Technical Community College, and Warren Wilson College;

WHEREAS, North Carolina installed 1,140 MW of solar electric capacity in 2015, ranking it second nationally; nearly \$1.7 billion was invested on solar installations in North Carolina, a 159% increase over the previous year; there are currently more than 200 solar companies at work throughout the value chain in North Carolina, the state companies employing

some 6,000 people; North Carolina ranks third in the nation in installed solar capacity, enough to power 260,000 homes; and solar photovoltaic system prices in the U.S. have dropped by 66% since 2010; Whereas, North Carolina has more offshore wind energy potential than any other Atlantic state;

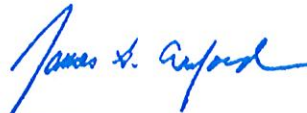
WHEREAS, the Intergovernmental Panel on Climate Change Fifth Assessment Report recommended a global goal of achieving near zero greenhouse gas emissions or below,

NOW, THEREFORE BE IT RESOLVED by the Chatham County Board of Commissioners that it endorses the following:

SECTION 1. Chatham County, the State of North Carolina and the United States shall establish a transition from a fossil fuel-based commercial electric grid to a electricity producing sector based 100% on renewable or carbon-free sources , by January 1, 2050 or sooner to avoid serious climate impacts, to promote job creation and economic growth, and to protect the environment.

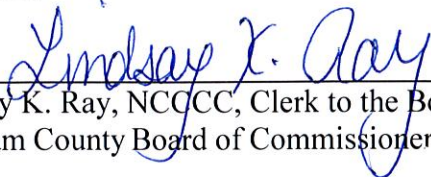
SECTION 2. This resolution is effective upon adoption.

Adopted, this the 9 day of June, 2017.



James G. Crawford, Chairman
Chatham County Board of Commissioners

ATTEST:



Lindsay K. Ray, NCCCC, Clerk to the Board
Chatham County Board of Commissioners

