

Smart Grid DEEP / Smart Cities and Towns Strategy Statement:

Smart Grid DEEP is North Carolina's future Smart Grid, Distributed Energy, and Efficiency Program. Smart Grid DEEP is part of North Carolina's road to a modern, low carbon economy. Smart Grid DEEP is a center of excellence developing North Carolina's clean power plan. Smart Cities and Towns goes further by making our municipalities generally more sustainable. Smart Grid DEEP / Smart Cities and Towns enhance municipal and state capabilities for competing on sustainability performance criteria.

Without statewide and national collaboration around sustainability performance, genuine success is less likely. NC Smart Grid DEEP will utilize modern CleanTech and sustainability techniques to make the North Carolina economy more resilient in the face of human-caused climate change. Smart Grid DEEP / NC Smart Cities and Towns improves our carbon budget and adds to our sustainable marketplace capabilities. How sustainable our cities and towns are forms the new competitive edge. Sustainability means improving future conditions for our people, economy, and necessary environmental requirements for future generations beyond pure profit needs today.

US carbon emissions were 5.4 billion metric tons metric tons in 2011 according to the Energy Information Agency. North Carolina's carbon emissions were 123 million metric tons. Given the nature of airborne carbon 'stickiness' in the atmosphere and the International Panel on Climate Change finding that going past one trillion metric tons will cause an extremely dangerous 3.6 F average global temperature rise initiating a range of essential climate variables, North Carolina has a role in mitigating our carbon budget. NC Smart Grid DEEP will be designed to support a carbon drop of 40 percent from North Carolina's electricity power generation and imported electricity from the 2011 level of 75 million metric tons of carbon, or a threshold of 30 million metric tons of airborne carbon, by 2030. This is a higher goal than the EPA Clean Power Plan.

One of the key reasons to seek sustainable ways to exceed expectations on low carbon economic development is to expand our statewide capabilities to export CleanTech products and CleanTech expertise across the nation and globe. Obviously North Carolina communities benefit by becoming more sustainable and by growing sustainability-oriented opportunities for skilled work and resulting higher incomes. Finally, carbon economics will incentivize these strategies and states highly competent in CleanTech and other sustainability strategy will be rewarded.

North Carolina's overall energy-related carbon emissions, including automotive gasoline, were 150 million metric tons according to the Energy Information Agency. There are a range of areas North Carolina can find carbon reducing strategies beyond electricity generation.

The Smart Grid DEEP Consortium is being organized to further support these activities. For further details on Smart Grid DEEP and the Smart Grid DEEP Consortium please join Sustain NC:

<http://sustainnc.com/strategy/>

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