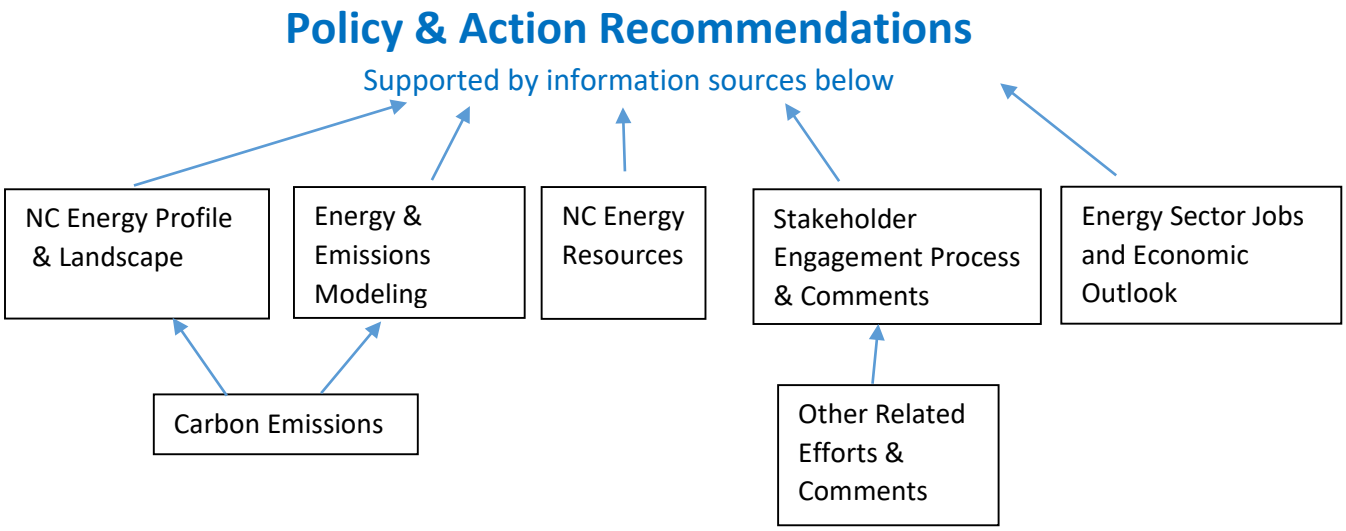
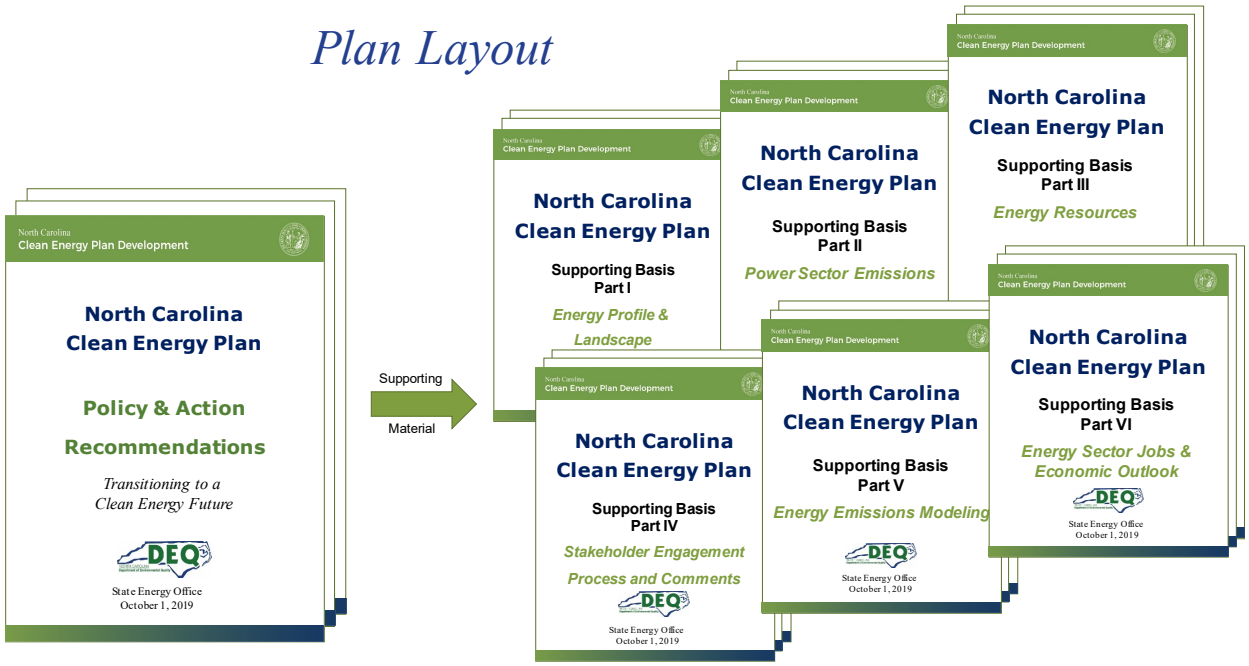
NC Clean Energy Plan Document Structure



Plan Layout



Polices & Action Recommendations

Draft Outline

I. **Acknowledgements**

II. **Introduction** (EO80 directive, process, timing, stakeholders, roles, …)

III. **Electric Sector Transformation in Process** (overview of technology trends, declining costs, customer interest) <---- Workshop #1 – 4

IV. **Clean Energy Plan Stakeholder Process**

V. **Vision and Goals for North Carolina's Electricity System** <---- Workshop #1 - 2

VI. **Guiding Principles** <---- Workshop #1 - 2

VII. **Electricity System Values to Uphold and Promote** <---- Workshop #1 - 2

VIII. **Successes and Challenges of the Current System** <---- Workshop #3 - 4

IX. **Portfolio of Recommendations** <---- Workshop #5 - 6 (see example tabulated summary)

Focus Areas		Potential Recommendations (examples)	
1	**Increase Customer Access to Clean Energy Resources**	1-1	End the ban on third-party sales of electricity
		1-2	Expand the cap on solar rebates under HB589
		1-3	Develop innovative solar rebate programs to increase access to diverse groups of customers, especially low-income residents
		1-4	Restore the 35% renewable energy state tax credit
		1-5	Require or incentivize utilities to offer on-bill financing
		1-6	Enact a statewide commercial PACE program
		1-7	Require utilities to invest in a specific amount of solar energy paired with storage
		1-8	Require virtual net metering by utilities offering community solar programs
		1-9	Achieve greater participation from smaller customers by revising Duke Energy's Green Source Advantage Program
		1-10	Require utilities to provide an easy option to purchase renewable energy through electric billing
		1-11	Empower customers to voice their opinions, desires and need for their best power generation option
		1-12	Provide resources for the Utilities Commission to increase their understanding of customers' needs and capability of alternate resources

Focus Areas		Potential Recommendations (examples)	
2	**Facilitate Interconnection of Greater DERs and Develop Compensation Methods for the Value Added to the Grid**	2-1	
3	**Modernize Electric Grid to Support Clean Energy Resources**	3-1	Integrate energy efficiency, storage and renewables to manage peak demand, demand response and grid flexibility
		3-2	Increase customer options for renewable energy procurement
		3-3	Expand residential and community solar opportunities
		3-4	Develop offshore wind resource
		3-5	Develop offshore wind supply chain
4	**Modernize Utility Business Model**	4-1	Incentivize least cost procurement
		4-2	Shift to pay for performance-based regulation
		4-3	Launch process to align utility incentives with public interest and grid needs
5	**Require Comprehensive Utility System Planning Process and Investment Strategy Reviews**	5-1	
6	**Address Equitable Access, Affordability and Just Transition to Clean Energy**	6-1	
7	**Strengthen Resilience and Flexibility of the Grid**	7-1	
8	**Develop Pathways to Further Decarbonize the Electric Power Sector**	8-1	Set carbon cap on the electric power sector
		8-2	Consider instate or regional carbon emissions trading program
		8-3	Consider economic costs and risks associated with climate change in least cost utility system planning
9	**Increase Clean Energy Economic Development Opportunities**	9-1	Foster innovation and commercialization of energy related businesses and technologies
10	**Increase Use of Energy Efficiency and Demand Side Management Programs**	10-1	
11	**Electrification (transportation and efficient utilization)**	10-2	

Note: Examples are samples of ideas that have already been raised by the participants. They represent examples of what COULD be included here, not an indication of what WILL be included in the Plan.

X. Detailed Recommendations <---- Workshop #1 - 6

1. Increase Customer Access to Clean Energy Resources

1-1. End the ban on third-party sales of electricity
1-2. Expand the cap on solar rebates under HB589
1-3. Develop innovative solar rebate programs to increase access to diverse groups of customers, especially low-income residents
1-4. Restore the 35% renewable energy state tax credit
1-5. Require or incentivize utilities to offer on-bill financing
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1-7. Require utilities to invest in a specific amount of solar energy paired with storage
1-8. Require virtual net metering by utilities offering community solar programs
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1-10. Require utilities to provide an easy option to purchase renewable energy through electric billing
1-11. Empower customers to voice their opinions, desires and need for their best power generation option
1-12. Provide options for the Utilities Commission to increase their understanding of customers' needs and capability of alternate resources

2. Facilitate Interconnection of Greater DERs and Develop Compensation Methods for the Value Added to the Grid

3. Modernize Electric Grid to Support Clean Energy Resources

4. Modernize Utility Business Model

5. Require Comprehensive Utility System Planning Process and Investment Strategy Reviews

6. Address Equitable Access, Affordability and Just Transition to Clean Energy

7. Strengthen Resilience and Flexibility of the Grid

8. Develop Pathways to Further Decarbonize the Electric Power Sector

9. Increase Clean Energy Economic Development Opportunities

10. Increase Use of Energy Efficiency and Demand Side Management Programs

11. Electrification (transportation and efficient utilization)

Supporting Basis

Draft Outline

Part I – NC's Energy Sector Profile and Landscape

- Overview of Energy Sources: Electricity, Thermal Energy, Transportation
- Deeper Dive: Electricity Sector

Part II – NC's Power Sector Emissions

- Historic & projected GHG emissions under business as usual case

Part III – NC's Energy Resources

- Coal
- Natural Gas
- Nuclear
- Solar
- Battery Storage
- Hydropower
- Bioenergy
- Transportation Electrification
- Other

Part IV – Stakeholder Comments

- Clean Energy Stakeholder Engagement Process and Comments
  - Summary of Comments
  - Facilitated Workshops
  - Listening sessions
- Other Related Efforts
  - Energy Efficiency Roadmap
  - Cities Initiative
  - Southeast Energy Innovation Collaborative

Part V – Energy & Emissions Modeling

- Summary of External Modeling Assumptions, Policy Scenarios and Results
- External Modeling Analyses
  - NRDC Report
  - NCSEA Report
  - RFF Report
  - NCSU Report
  - Georgetown Climate Center Report
  - EPA Report

Part VI – Jobs & Economic Outlook

Schedule

June 26

Workshop #5 - Stakeholders develop preliminary list of recommendations

July 24

Workshop #6 **-** Stakeholders prioritize recommendation ideas

August 12 – **September 4**

Public Comment Period

End September – Final Plan presented to Climate Council for approval

October 1 – Final Plan submitted to the Governor