

North Carolina

Climate Change Interagency Council



Executive Order No. 80: NC's Commitment to Address Climate Change and Transition to a Clean Energy Economy

Cabinet Agency Plans for Addressing EO80 Directives

Inaugural Meeting, December 19, 2018

Raleigh, NC

Agenda

1. Welcome and Introductions

9:30-9:55

- Welcome (DEQ Secretary Michael Regan)
- Opening Remarks (Governor Roy Cooper)
- Council Introductions (Cabinet Agency Secretaries and their Designees)

2. Executive Order No. 80 and Council Process

9:55-10:10

- Overview of EO80 (Jeremy Tarr, Governor's Office)
- Overview of Council's Operating Procedures and Meeting Schedule (Sushma Masemore, DEQ)

3. Cabinet Agency Plans and Stakeholder Process for Addressing Specific Directives

10:10-10:55

- DEQ – Clean Energy Plan, Climate Risk Assessment and Resiliency Plan, State Buildings Energy Savings Program
- DOT – NC Zero Emission Vehicle (ZEV) Plan
- DOC – Clean Energy and Clean Transportation Workforce Assessments
- DOA – NC Motor Fleet ZEV Plan

BREAK

10:55-11:05

4. Cabinet Agency Plans for Addressing General Directives (25 mins)

11:05-11:30

- Each agency discusses how climate change is impacting its programs and operations.

5. Public Engagement

11:30-12:00

*Executive Order No. 80:
North Carolina's Commitment to Address Climate Change and
Transition to a Clean Energy Economy*

State Goals

The State of North Carolina will strive to accomplish the following by 2025:

- a. Reduce statewide greenhouse gas emissions to 40% below 2005 levels
- b. Increase the number of registered, zero-emission vehicles (ZEVs) to at least 80,000
- c. Reduce energy consumption per square foot in state-owned buildings by at least 40% from fiscal year 2002-2003 levels



N.C. Climate Change Interagency Council

Composition. The secretary or designee of each cabinet agency and a representative of the Governor's Office

Council Chair. Secretary Regan, N.C. Department of Environmental Quality

Council Duties

- Recommend new and updated goals and actions to meaningfully address climate change
- Develop and implement programs and activities that support climate mitigation and adaptation
- Consider stakeholder input when developing recommendations, programs, and activities
- Schedule, monitor, and provide input on the preparation and development of the plans and assessments required by EO 80
- Review and submit to the Governor EO 80 plans and assessments

Status Update on Implementation. To Governor by Oct. 15, 2019.



Specific Directives

Department of Environmental Quality

N.C. Clean Energy Plan to encourage the increased utilization of clean energy technologies in the public and private sectors. Due Oct. 1, 2019.

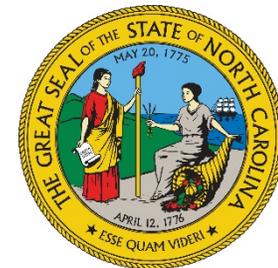
Updated **Comprehensive Energy, Water, and Utility Use Conservation Program**, which includes best practices and guidance to help achieve the state building efficiency goal in EO 80. Due Feb. 1, 2019 and Dec. 1, 2019.

N.C. Climate Risk Assessment and Resiliency Plan to provide a scientific assessment of current and projected climate impacts on North Carolina and prioritize effective resiliency strategies. Due Mar. 1, 2020.

Greenhouse Gas Inventory that estimates North Carolina's statewide net GHG footprint.

Department of Transportation

N.C. Zero-Emission Vehicle Plan designed to achieve the ZEV target and address topics such as ZEV corridors and ZEV infrastructure. Due Oct. 1, 2019.



Specific Directives

Department of Commerce

Clean energy and clean transportation workforce assessments that evaluate current and future workforce needs, assess the skills and education required for employment, and recommend actions to help North Carolinians develop such skills and education. Due Oct 1, 2019.

Department of Administration

N.C. Motor Fleet Zero-Emission Vehicle Plan that identifies feasible trips for a ZEV, recommends needed infrastructure, addresses ZEV procurement options, and includes other key strategies for increasing ZEV use. Due Oct. 1, 2019.

Accounting of each agency's number of ZEVs and miles driven by vehicle type. Due Oct. 1, 2019.



General Directives to All Cabinet Agencies

Assess and Address Climate Change

- Evaluate the impacts of climate change on agency programs and operations
- Integrate climate change mitigation and adaptation practices into agency programs and operations
- Support communities and sectors vulnerable to climate change impacts

Support Clean Energy Business. Take actions that support the expansion of clean energy businesses and service providers, clean technology investment, and companies committed to procuring renewable energy.



General Directives to All Cabinet Agencies

Procure and Use Zero-Emission Vehicles. Prioritize ZEVs in the purchase or lease of new vehicles and use ZEVs for agency business travel when feasible. When ZEV use is not feasible, prioritize cost-effective, low emission alternatives.

Improve Energy Consumption. Develop and implement strategies to support the state building efficiency goal in EO 80.

- Designate an energy point of contact. Due Jan 15, 2019.
- Develop a utility management plan. Due Mar. 1, 2019.
- Report annually on utility consumption. Due Sept. 1, 2019.



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Overview of Climate Council's Operating Procedures and Meeting Plans

Cabinet Secretaries Designees

- **Two Designees from Each Cabinet Agency - Executive and Program Level**
 - Primary points of contact for their agency.
 - Participate in regular interagency meetings to discuss strategic direction, plan council meeting agendas, prioritize activities, address public input, and take actions to achieve the goals of EO80.
 - Participate in Council meetings as assigned to fulfill duties specified in EO80, Section 3 a-f.
 - Attain authority to ensure EO80 directives are being carried out throughout the agency.
 - Support planning, communication, and interactions with stakeholders.
- **Communication with the Public**
 - DEQ will maintain a web portal <https://deq.nc.gov/energy-climate/climate-change>
 - Cabinet agencies will maintain own web pages, linked to DEQ portal
 - Implementation status updated
 - Stakeholder meeting information provided
 - Agendas posted
 - Interested groups may sign up for regular updates via email
 - Social media presence



Climate Council Meeting Plans

- 1st Meeting:** December 19, 2018, attended by cabinet secretaries, Raleigh
- 2nd Meeting:** February 2019, attended by Secretary's designees, Raleigh
- Agency Status Reports and Public Engagement Period
- 3rd Meeting:** April 2019, attended by Secretary's designees, Eastern N.C.
- Agency Status Reports and Public Engagement Period
- 4th Meeting:** June 2019, attended by Secretary's designees, Western N.C.
- Agency Status Reports and Public Engagement Period
- 5th Meeting:** August 2019, attended by Secretary's designees, Raleigh
- Agency Status Reports and Public Engagement Period
- 6th Meeting:** September 2019, attended by cabinet secretaries, Raleigh
- Review and Approval of Agency Reports Due October 1, 2019
 - Public Engagement Period
- 7th Meeting:** November 2019, attended by Secretary's designees, Eastern N.C.
- Agency Status Reports and Public Engagement Period

Dates and details posted at:
<https://deq.nc.gov/climate-council>



Cabinet Agency Specific Directives

Clean Energy Plan Development Process

EO80 Section 4

1. General Description of Approach

- Stakeholder engagement to receive feedback on a vision for NC's energy future
- Identify stakeholder needs, issues, barriers, solutions, opportunities unrealized, equity concerns, and actions required
- Analyze future energy demand, generation and supply strategies, national trends in power grid modernization/transformation, and explore future options for NC
- Assess economic opportunity, rate impacts, environmental benefits, health impacts, and jobs outlook for the visionary energy future
- Recommend policy, regulatory, administrative, local government, public, and business community actions to meet the vision

2. Public Engagement Process

- Open process throughout plan development (surveys, meetings, teleconferences, forums, etc.)
- Initial stakeholder schedule to be released in January 2019
 - Initial public meeting (Raleigh)
 - General listening sessions (throughout the state)
 - Facilitated stakeholder process for focused topic areas (throughout the state)



Clean Energy Plan Development Process

3. Anticipated Timeline

- Jan. 2019 – March 2019: Public engagement, vision development, issues and solutions development
- April 2019 – May 2019: Technical analysis and quantification of economic, environmental, cost, and grid reliability impacts
- May 2019 – June 2019: Draft Plan development
- July 2019 – Aug. 2019: Public comment period
- Sep. 2019: Revised plan provided to the Climate Council
- Oct. 2019: Final plan submitted to the Governor

4. Communication Methods

- Email distributions, press releases, social media, other announcements
- Stakeholder meeting information sessions (general and focused, structured deep dives)
- Regular postings on website: <https://deq.nc.gov/climate-council>

Clean Energy Plan Stakeholders

- Distributed energy resource/renewable energy system providers and integrators
- Investor owned utilities, municipalities, and electric cooperatives
- Local governments, council of governments and other supporting entities
- Elected officials
- Large corporate, business and finance groups
- Manufacturing and industrial organizations and trade associations
- Healthcare and commercial buildings sector
- Higher education institutions
- Environmental justice, under-served communities and faith-based organizations
- Affordable housing and community development organizations
- Consumer advocates
- Youth and students
- Environmental organizations
- Energy efficiency system and service providers
- Others (to be defined per suggestions)

Climate Risk Assessment and Resiliency Plan Development Process EO80 Section 9

1. General Description of Approach

- Stakeholder engagement to draw upon existing body of work and identify new areas for inclusion into a Resiliency Plan
- Collective effort from all cabinet agencies required
- Explore hazards
 - Convene science and climatological experts to develop a North Carolina specific climate assessment
 - Assess climate stressors based on past weather events and future climate trends/variability; Assess non-climate stressors
 - Explore threats, hazards and impacts to public and private value streams
 - Prioritize areas and issues to address climate adaptation and resiliency grouped by sector and region
- Assess vulnerability and risks incorporating technical and local knowledge
- Develop a Resiliency Plan
 - Explore integration with hazard mitigation and comprehensive land use planning
 - Investigate options and solutions for highest risks
 - Evaluate costs, benefits, losses, and feasibility
 - Prioritize options and develop Resiliency Plan with evaluation metrics
 - Update Resiliency Plan every 3-5 years (as recommended by stakeholders)

Climate Risk Assessment and Resiliency Plan Development Process

2. Public Engagement Process

- Open process throughout plan development (meetings, teleconferences, forums, etc.)
- Facilitated stakeholder process for select groups/categories (throughout the state, emphasis on local government)
 - Cabinet agency led efforts to address risks and vulnerabilities associated with their programs
- ✓ DEQ Natural & Working Lands Stakeholder Group met in October and December

3. Anticipated Timeline

- Jan. 2019 – May 2019: State climate assessment and hazards assessment performed by subject matter experts
- June 2019 – Aug 2019: Vulnerability and risk assessment conducted through stakeholder meetings
- Aug. 2019 – Oct. 2019: Explore options/solutions and prioritize feasible actions
- Dec. 2019: Draft North Carolina Climate Risk Assessment and Resiliency Plan to public comment
- Feb. 2020: Revised plan provided to the Climate Council
- March 2020: Final plan submitted to the Governor

4. Communication Method

- Email distribution, press releases, social media, partnership networks and other announcements
- Regular postings on websites:

<https://deq.nc.gov/climate-council> and <https://deq.nc.gov/climate-change/adaptation-and-resiliency>



State Buildings Utility Savings Initiative (USI)

Implementation Process

EO80 Section 8

1. General Description of Approach

- Revise the Comprehensive Program to further reduce cabinet agency building energy usage
- Promote best practices for state government buildings energy efficiency and provide training to energy managers and staff
- Adopt a standard methodology for calculating energy consumption per gross square foot and emissions tracking toward reduction goals in Section 1
- Encourage and assist Council of State members, higher education, K-12, and local government to further reduce energy consumption
- Maintain agency reporting requirements pursuant to G.S. 143-64.12 (a),
 - Biennial Agency Utility Management Plan and annual Agency Utility Reports
 - Annual Utility Report that describes the Comprehensive Program and summarizes achieved reductions in energy consumption

2. Public Engagement Process

- Meetings, teleconferences, etc. to assist with plan and program development
- Assist agencies and other public building owners in understanding their utility data



USI Plan Development Process

3. Anticipated Timeline

- January 15, 2019, collect cabinet agency energy manager information
- February 1, 2019, update and amend Comprehensive Energy, Water, and Utility Use Conservation Program
- March 1, 2019, collect cabinet agency utility management plans and assess the adequacy of the plans with EO80
- September 1, 2019, agency Annual Utility Reports due
- December 1, 2019, Annual report on Comprehensive Energy Program and agency utility consumption, costs and achievements

4. Communication Method

- Site visits, telecommunication, emails, meetings
- Posting on website: <https://deq.nc.gov/conservation/energy-efficiency-resources/utility-savings-initiative>

USI Plan Stakeholders

- Cabinet agencies
- Higher Education Institutions
- Community Colleges
- K-12 Schools
- Local Governments
- Treasurer Office
- OSBM

Zero Emission Vehicle (ZEV) Plan Development Process

EO80 Section 5

1. General Description of Approach

- Create a multidisciplinary team to create a specific plan to follow through on EO80
- Approximately 9,000 Electric Vehicles already registered in NC
- Continue working with DEQ on Phase 1 plans for the ZEV infrastructure allocation of funds from the VW Air Quality Violation Settlement
- Further advance work on Alternative Fuel Corridors – several segments of the state’s interstates are already identified as Alternative Fuel Corridors. Some are “signage ready” for compressed natural gas (CNG) and/or EV fast charging
- “Start at home” by identifying when and where electric vehicles can be included in NCDOT’s fleet (EO80 Section 7)
- Leverage our long-range planning efforts (NC Moves 2050) to identify short term, near term, & long term initiatives

2. Public Engagement Process

- Create a NCDOT specific Climate Change Commitments webpage
- Utilize NCDOT’s current public involvement processes
- Virtual Public Involvement (VPI)
- Continued participation in EV workgroups which include public as well as government & commercial stakeholders



ZEV Plan Development Process

3. Anticipated Timeline

- Jan 2019: Develop multidisciplinary team and establish webpage needs
- February – Mar 2019: Public engagement, plan development, potential issue/solutions identification
- Apr 2019 – May 2019: Technical analysis and quantification of economic costs & environmental benefits
- May 2019 – Jun 2019: Draft Plan development
- Jul 2019 – Aug 2019: Public comment period
- Sep 2019: Revised plan provided to the Climate Council
- Oct 2019: Final plan submitted to the Governor

4. Communication Method

- Website
- existing NCDOT public involvement including VPI
- DMV offices
- Ready NC app



Clean Energy and Clean Transportation Workforce Assessment Process EO80 Section 6

1. General Description of Approach *(For each sector – Clean Energy & Clean Transportation)*

- Identification of existing talent pool and future workforce demand
- Assessment of employers' current and future workforce skills and training needs
- Compilation of educational program offerings, enrollment trends, and work-based learning opportunities
- Identification of gaps and areas for improvement to meet current and future workforce demand
- Recommended actions to help North Carolinians develop the required skills and education

2. Public Engagement Process

- Consult with organizations in energy and transportation sectors to identify industries and employers
- Consult with identified employers regarding current and future skill needs as well as challenges
- Consult with public and private education institutions regarding program offerings, enrollment trends, and work-based learning opportunities
- Solicit public comments on draft recommendations before finalizing



Workforce Assessment Process

3. Anticipated Timeline

- Jan 2019 – Feb 2019: Consultation with industries, employers, and education institutions
- March 2019 – May 2019: Data gathering, technical analysis, and quantification of findings
- May 2019 – Jun 2019: Draft assessment development
- Jul 2019 – Aug 2019: Public comment period
- Sep 2019: Revised assessment provided to the Climate Council
- Oct 2019: Final assessment submitted to the Governor

4. Communication Method

- Email distribution, press releases, other announcements
- Regular postings on website: <http://www.nccommerce.com>



Workforce Assessment Stakeholders

- Public, private, and nonprofit organizations engaged in the production, transmission, provision, or distribution of clean energy or clean transportation products or services
- Public, private, and nonprofit organizations engaged in the evaluation or promotion of clean energy or clean transportation products or services
- Public or private education institutions engaged in offering educational programs, apprenticeships, or work-based learning opportunities associated with jobs in the clean energy or clean transportation sectors
- Students or workers with interest or experience in employment in the energy or clean transportation sectors
- Others (to be defined per suggestions)



Motor Fleet ZEV Plan Development Process

EO80 Section 7

1. General Description of Approach

- Stakeholder engagement to seek input on ZEV priorities
- Determination of stakeholder issues, barriers, opportunities and support required for ZEV priorities
- Identify types of feasible ZEV trips; develop procurement options and strategies to increase ZEV purchases and utilization; account for each agency's ZEV utilization
- Recommend policy and actions needed to support ZEV priorities

2. Public Engagement Process

- Meetings, teleconferences and surveys



Motor Fleet ZEV Plan Development Process

3. Anticipated Timeline

- January 2019 – May 2019: Stakeholder engagement and information gathering
- May 2019 – June 2019: Data analysis and quantification of economic cost
- July 2019 – August 2019: Draft Plan development and review with stakeholders
- September 2019: Submit Plan to Council to submit to the Governor

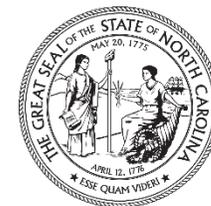
4. Communication Method

- Email
- Agency websites
- Agency social media accounts
- Newsletters



Motor Fleet ZEV Plan Stakeholders

- Cabinet agencies
- Council of State agencies
- Local governments, and community colleges
- UNC System member institutions
- Community Colleges
- North Carolina citizens



Cabinet Agency General Directives

- *Reports by Cabinet Agencies*

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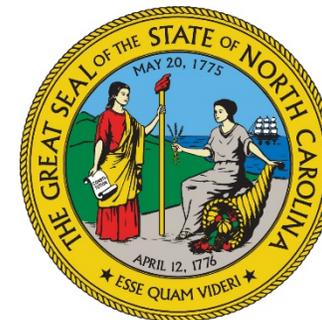
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Thank you.

