



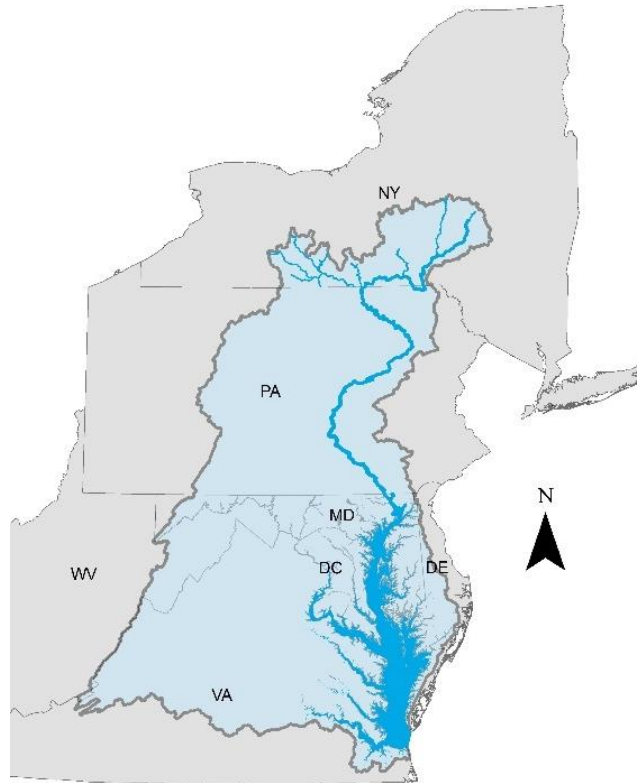
**Department of  
Environmental  
Conservation**

# **New York Tackles Climate Change**

**Climate Resiliency Workgroup  
October 21, 2019**

## New York's Connection to the Chesapeake Bay

- Susquehanna and Chemung Rivers are the headwaters of the Chesapeake Bay
- Portions of 19 counties in NY are within the watershed boundary



# Preliminary Load Estimates due to Climate Change

	Increased Load Attributed to Climate Change	Phase III Planning Target
<b>Nitrogen (M lbs/yr)</b>	<b>0.400 (3.8%)</b>	<b>11.53</b>
<b>Phosphorus (M lbs/yr)</b>	<b>0.014 (2.4%)</b>	<b>0.583</b>

## Effects in New York

- Higher temperatures
- More precipitation
- More frequent drought

More extreme events:

- Floods
- Heat
- Ice/snow
- Winds



Courtesy of Bill Walsh



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# Impacts of Climate Change



Public Health  
Risks



Agricultural  
Production



Vulnerable  
Ecosystems



Water  
Resources



Stressed  
infrastructure

# State Energy Plan: Reforming the Energy Vision

- 40% Reduction in GHG emissions from 1990 levels
- 50% of Energy generation from renewable energy sources
- 23% decrease in energy consumption in buildings from 2012 levels
- Affordability
- Environmental
- Reliability and Resiliency
- Regulatory Reform
- Environmental Justice
- Clean, Reliable Transportation

## Reforming the Energy Vision

BUILDING A CLEAN, MORE RESILIENT, AND AFFORDABLE ENERGY SYSTEM FOR ALL NEW YORKERS.

Reforming the Energy Vision (REV) is Governor Andrew M. Cuomo's comprehensive energy strategy for New York. REV helps consumers make more informed energy choices, develop new energy products and services, and protect the environment while creating new jobs and economic opportunity throughout the State.



# New York Emission Reduction Programs

## Power Sector

- Regional Greenhouse Gas Initiative
- Power Plant Performance Standards

## Buildings

- New York Power Authority's BuildSmart NY program
- NYSERDA's home and commercial energy efficiency programs
- Promote cogeneration



# New York Emission Reduction Programs

## Transportation Sector

- Transportation and Climate Initiative
- Charge NY
- Vehicle Emissions Standards
- Electric Vehicle Incentives



## NYSERDA

- Clean Energy Standard
- Energy Storage Roadmap
- Clean Energy Communities



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# Climate Leadership and Community Protection Act

- Codifies clean energy targets
- First statutory Climate Action Council
- Commitments to environmental justice and just transition



# Climate Action Council

- 2 years: Draft scoping plan of recommendations for achieving GHG limits, final in 3 years
- Co-chaired by DEC and NYSERDA
- Agencies: DOT, DOH, ESD, DAM, HCR, DOL, PSC, NYPA, LIPA, DOS
- 2 Governor appointments
- 8 Legislative appointments

## Advisory panels:

- transportation
- land use and local government
- housing and energy efficiency
- energy intensive industries
- power generation
- agriculture and forestry



# Climate Leadership and Community Protection Act

Climate Leadership  
and Community  
Protection Act

Assembly and  
Senate Bill Passed:  
Environmental  
Justice Advisory  
Group



Reduce 40% of  
GHG emissions

50% energy from  
renewable  
energy sources



Reduce 80% of  
GHG emissions

2019

2023

2030

2040

2050



Climate Action  
Council finalizes  
plan of  
recommendations  
for achieving the  
required GHG  
reductions



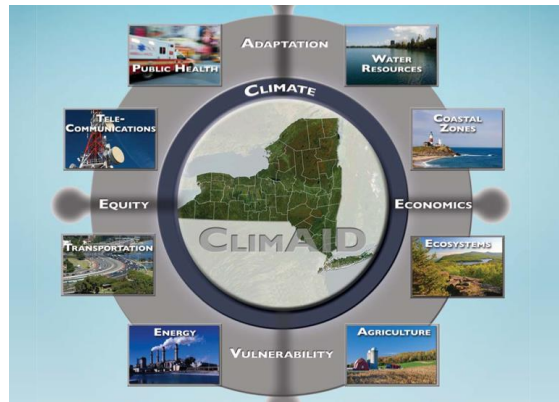
100% Clean  
Electricity



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# New York State Adaptation & Mitigation Programs

- Integrated Vulnerability Assessment (ClimAID)
- Emergency Response Commissions
- Interagency Climate Adaptation and Resilience Work Group
- Climate Risk and Resiliency Act
- State Agency Vulnerability Assessments
- NYSDOH County-Heat Health Profiles
- Climate Smart Communities
- Climate Resilient Farming



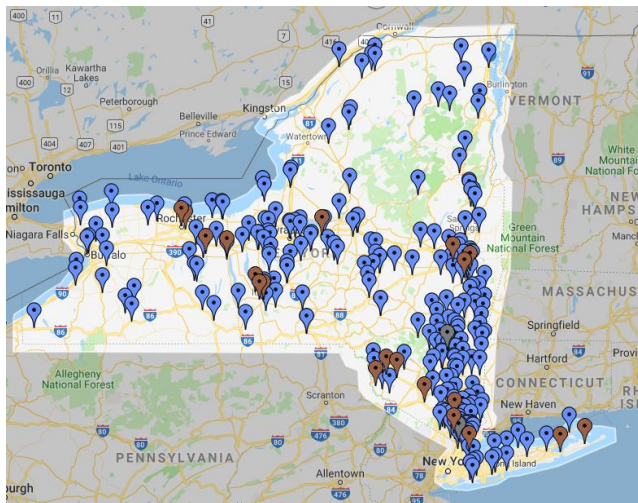
## 2017 Community Risk and Resiliency Act (CRRA)

- Official Sea-Level Rise Projections
- Consideration of Sea-Level Rise, Storm Surge and Flooding in Facility Siting, Permitting and Funding
- Smart Growth Public Infrastructure Policy Act Criteria
- Model Local Laws Concerning Climate Risk
- Guidance on Natural Resiliency Measures



# Climate Smart Communities

20 CSC communities within the Chesapeake Bay



1. Build a climate-smart community.
2. Inventory emissions, set goals, and plan for climate action.
3. Decrease energy use.
4. Shift to clean, renewable energy.
5. Use climate-smart materials management.
6. Implement climate-smart land use.
7. Enhance community resilience to climate change.
8. Support a green innovation economy.
9. Inform and inspire the public.
10. Engage in an evolving process of climate action.

# Agricultural Action on Climate Change

## NYS Climate Resilient Farming Program

- Reduce the impact of agriculture on climate change
- Increase the resiliency of NYS farms in the face of a changing climate



## Cornell Climate Smart Farming Program

- User-friendly climate tools for farmers in the Northeast
- Research and Extension Specialists



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# Cleaner Greener Southern Tier

- Comprehensive smart growth plan for regional sustainability in 8 counties
- Primary goal to reduce greenhouse gas emissions
- Implementation of plan will have water quality, floodplain, agriculture, and land conservation benefits

## Cleaner Greener Southern Tier

### Regional Sustainability Plan

For Broome, Chemung, Chenango, Delaware, Schuyler, Steuben, Tioga and Tompkins Counties, New York





# How will New York address new loads?

- Capitalize on co-benefits
- Re-evaluate BMP selection based on updated efficiencies
- Align with existing strategies
- Engage local agencies
- Implement existing regulations and programs focused on climate change



# Thank You

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DEC Chesapeake Bay Webpage:

<http://www.dec.ny.gov/lands/33279.html>



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