

Governor's Energy Advisory Council

Friday, October 10, 2025

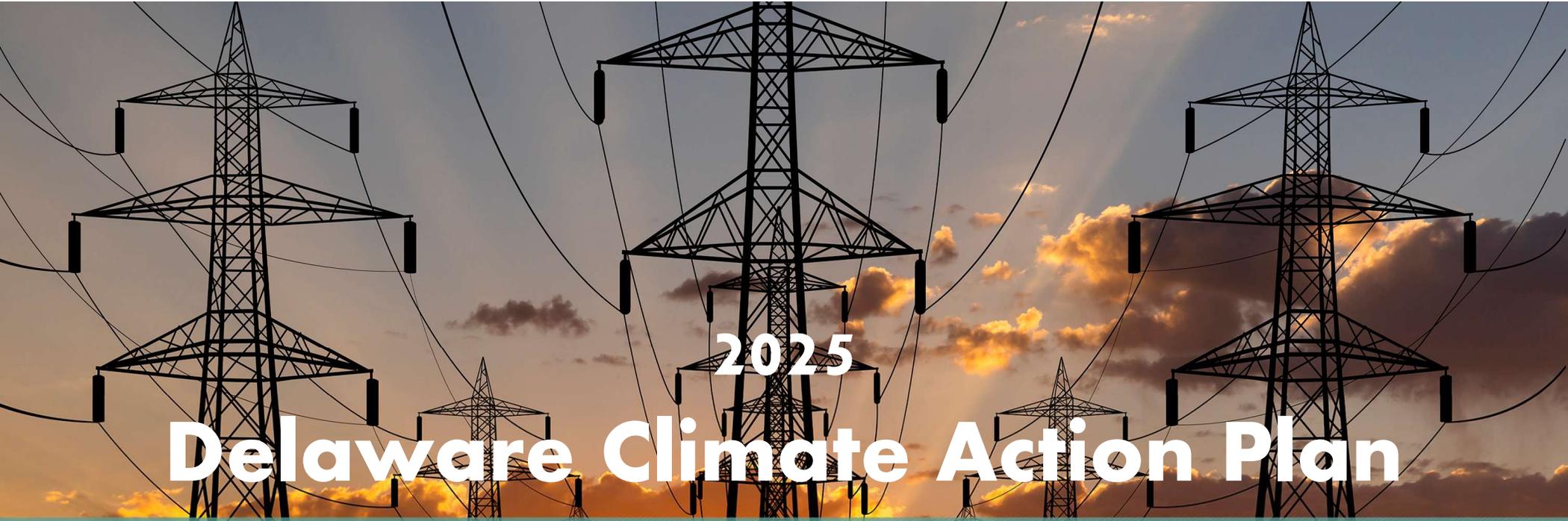
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DELAWARE DEPARTMENT OF
NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL

Agenda

1. Roll Call of Council Members
2. Opening Remarks
3. Approval of Meeting Minutes from June 20, 2024
4. Briefing on the 2025 Delaware Climate Action Plan
5. Public Comment
6. Update on the State Energy Plan
7. Public Comment
8. Future Council Meetings



2025
Delaware Climate Action Plan

**Overview for Governor's Energy Advisory Council
October 10, 2025**

www.de.gov/climateplan



DELAWARE DEPARTMENT OF
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Today's Presentation Topics

- Background on Climate Change in Delaware
- Overview of the Climate Action Plan – what, why, how
- Intersections with Energy Plan
- Your questions

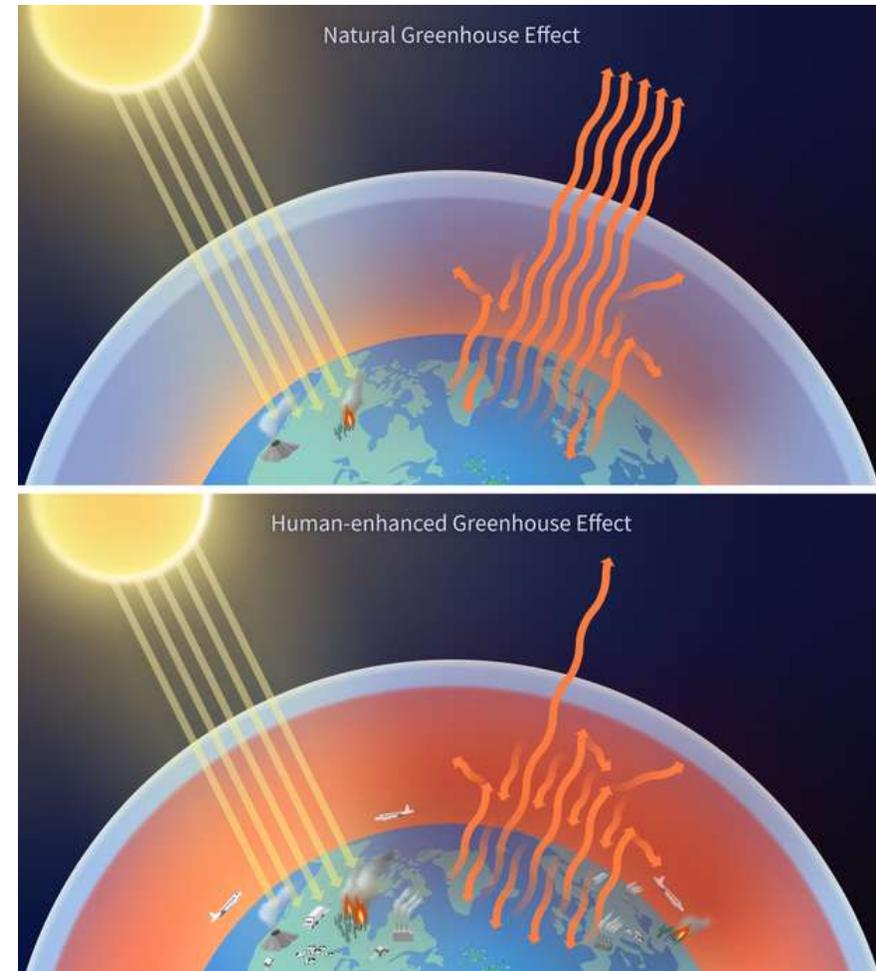


Why Is The Climate Changing?

Human activities have increased the amount of greenhouse gases in our atmosphere.

Greenhouse gases act as a heat trapping blanket around the earth, warming our planet and causing climate change.

Humans are causing climate change: we can take action to slow and reverse it



Climate Impacts in Delaware

Climate change looks different depending on where you are in the world. In some places, it is getting **wetter**, in others, **drier**. Some places have more **fire risk**; others have more **flood risk**.

Here in Delaware, climate change primarily takes the form of:



Increased Temperatures



Sea Level Rise

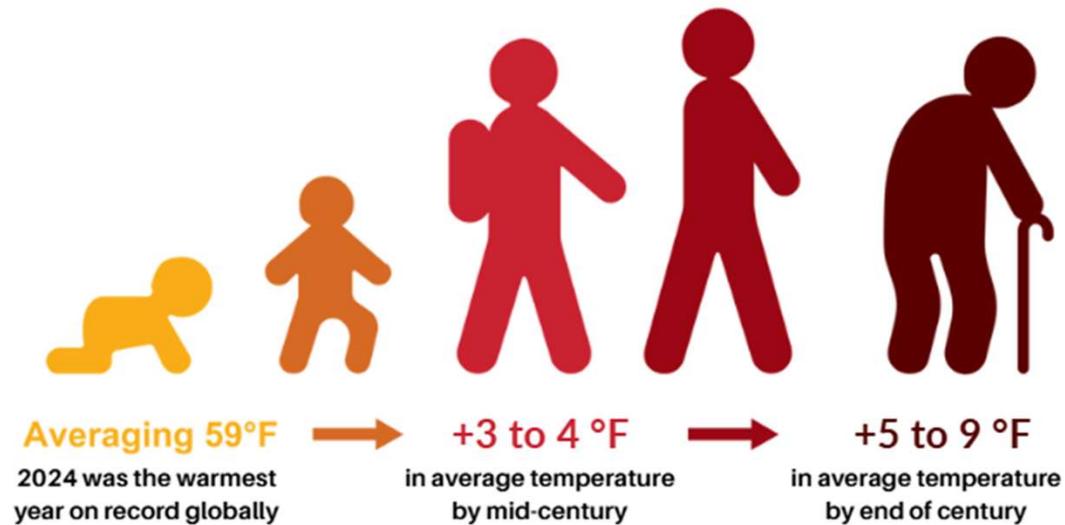


More Frequent Intense Storms



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Delaware Will Keep Getting Warmer



Delaware's average annual temperatures have risen 3°F since 1900.



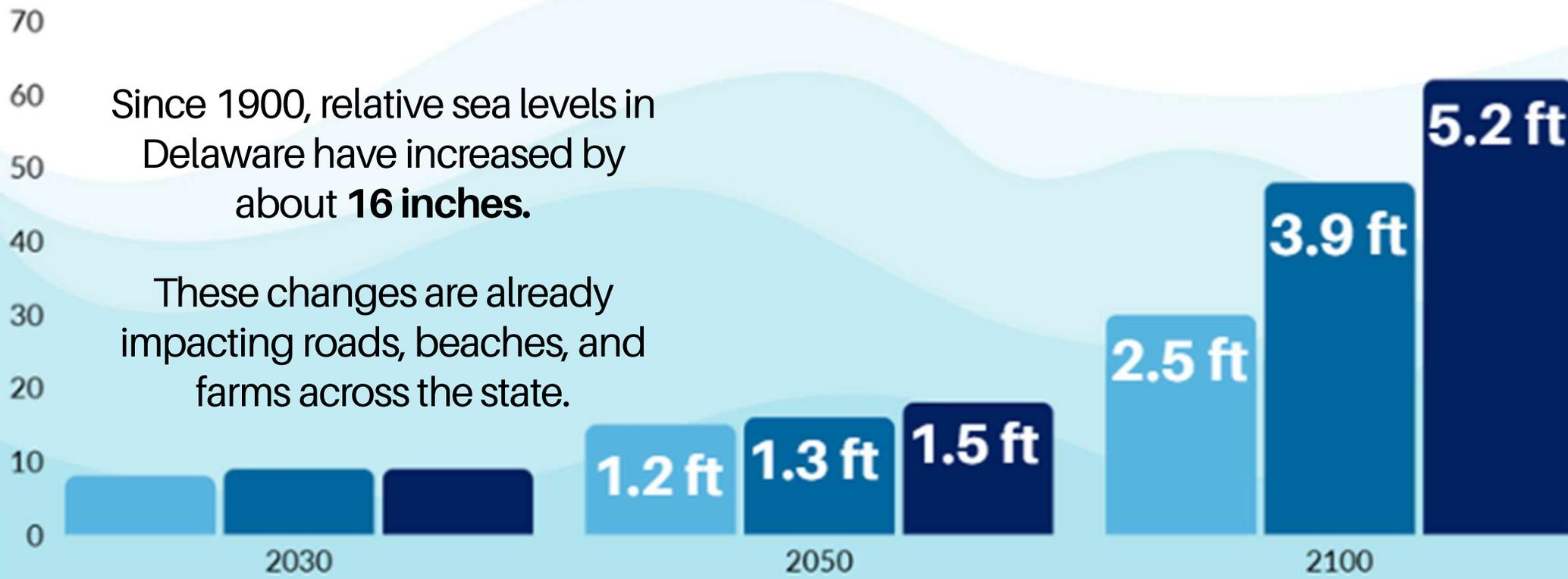
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Delaware Sea Levels Will Continue to Rise

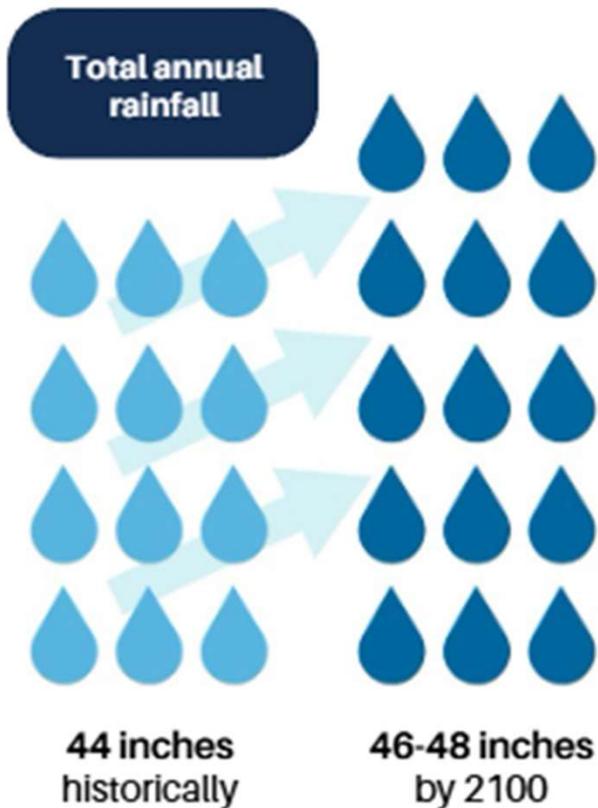
● Intermediate-Low Emissions ● Intermediate Emissions ● Intermediate-High Emissions

Since 1900, relative sea levels in Delaware have increased by about **16 inches**.

These changes are already impacting roads, beaches, and farms across the state.

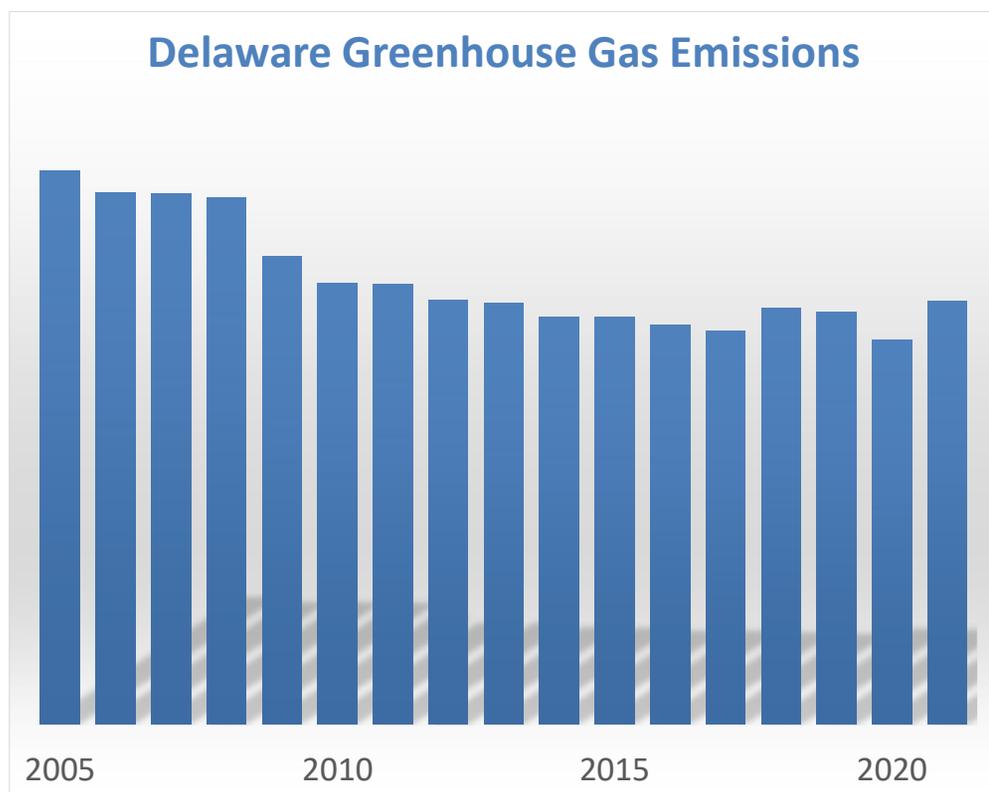


Delaware Will Keep Getting Wetter



The northeast US has experienced a **60% increase** in extreme precipitation since 1958

Our Work in Action – Delaware Reduced Emissions by 24% between 2005 and 2021

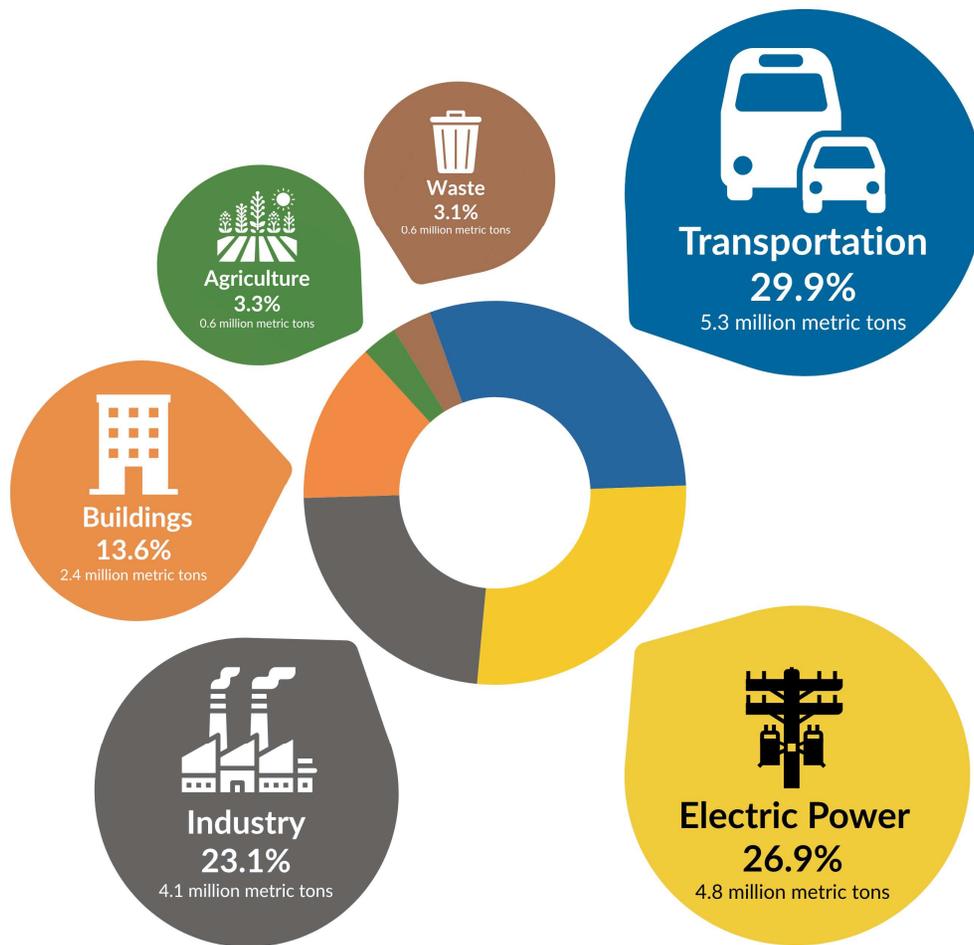


Here's how:

- Reducing pollution at power plants
- Increasing energy efficiency
- Renewable energy deployment
- Cleaner cars and electric vehicles



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Delaware Emission Sources Today



Reducing Emissions

We must **reduce** our greenhouse gas emissions to avert the worst effects of climate change...



Preparing Communities

... and to **help** our communities prepare for effects that are already happening today



The Climate Action Plan addresses both

Delaware's Climate Action Plan

- Roadmap to guide state efforts on climate change and meet emission targets
- Updated every five years



DELAWARE'S *Climate Action Plan*





Climate Change Solutions Act of 2023

Establishes a comprehensive and coordinated approach to reduce emissions of greenhouse gases and to maximize resiliency

- Sets Statewide Emission Reduction Goals (50% by 2030, net zero by 2050)
- Establishes a schedule for updating the Climate Action Plan and progress reports
- Establishes a committee of Technical Climate Advisors to issue climate scenarios
- Establishes State Agency Climate Officers
- Establishes an all of government strategy for implementing emissions reductions and resilience





Required Components

2025 Climate Action Plan

- Outline strategies to meet emissions reduction targets of 50% by 2030 and net zero by 2050
- Outline strategies to increase our resiliency to climate impacts
- Recommend potential legislative, regulatory and policy changes that will help meet emissions and resiliency goals
- Engage communities statewide to have a voice in the planning process

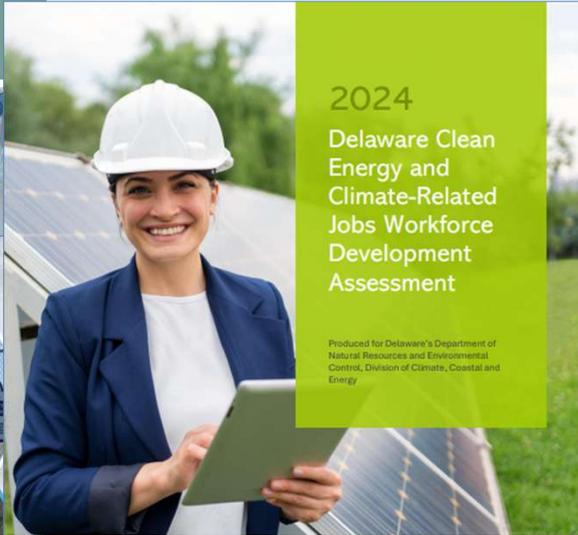


2023 Delaware Hazard Mitigation Plan



2024 Delaware Clean Energy and Climate-Related Jobs Workforce Development Assessment

Produced for Delaware's Department of Natural Resources and Environmental Control, Division of Climate, Coastal and Energy



[bw] RESEARCH PARTNERSHIP

2024

2028

DELAWARE STATE ENERGY PLAN



DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

DNREC STATE ENERGY OFFICE | DIVISION OF CLIMATE, COASTAL AND ENERGY | DECEMBER 2024

Developing the Climate Plan: Integrating Data and Research

- **Existing plans and data**
 - Greenhouse gas inventory
 - DE Energy Plan
 - DE Hazard Mitigation Plan
 - State Strategies for Policy and Spending
- **New studies and reports**
 - Climate Change Perceptions Survey
 - Clean Energy Workforce Assessment
 - Greenhouse gas modeling
 - Climate Change Projections



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Developing the 2025 Climate Action Plan: Engaging communities and experts



Engaged with **2,000+**
Delawareans at
community events and
public workshops



Held **45** meetings with
businesses, experts and
community groups



Facilitated dialogue with
150+ subject matter
experts at workshops





Intersections with GEAC and Energy Plan

- GEAC members invited to stakeholder and public events
- GEAC rec'd strategies and actions for comment
- State Energy Office and Climate team worked together to ensure consistency
- Energy Plan and GEAC recommendations foundational for Climate Plan



Strategies and Actions to Achieve Delaware's Climate Goals

The main recommendations for climate action presented in the 2025 Climate Action Plan are organized into goals, strategies, and actions:

- A **goal** is a broad, overarching objective to achieve.
- A **strategy** outlines one of many possible approaches towards achieving a goal.
- An **action** is a specific step that can be taken within the next five years to support a strategy. Actions in the document are not comprehensive, but illustrative of the types of steps needed to support the strategy

Example Actions:

Goal:

Support Emerging Clean Energy Technologies

Strategy E5:

Evaluate the potential of small modular nuclear reactor technology in Delaware's energy future

Action E5.2:

Enhance public awareness of small modular nuclear reactor technology by providing clear, accurate information and analysis.

DRAFT for Public Review
September 2025

Delaware 2025 Climate Action Plan Draft Strategies and Actions for Public Review



This document contains a list of draft goals, strategies and actions for potential inclusion in the 2025 Delaware Climate Action Plan. This list is the result of 18 months of research, community meetings, workshops and consultations with experts led by DNREC's climate planning team.

- A **goal** is a broad, overarching objective to achieve. For example, "Modernizing Delaware's Electric Grid" is a goal featured in the Electricity and Grid Infrastructure section.
- A **strategy** outlines one of many possible approaches for achieving the goal. For example, a strategy under "Modernizing Delaware's Electric Grid" is "Strategy E9: Accelerate Battery Storage."
- An **action** is an example of a specific step that can be taken within the next five years to support a strategy. An action listed under the strategy "Accelerate Battery Storage" is "E9.4: Create financing opportunities and incentives to promote battery storage systems."

The Climate Action Plan is intended to be a living document. Strategies and actions included in the plan can be taken over time as resources, data and partnerships develop and evolve. Implementation of many of the actions will also include additional opportunities for public and stakeholder input.

You are invited to provide feedback on this list. Feedback is requested by October 10, 2025.

Feedback can be provided several ways:

1. Fill out a questionnaire in person at one of three public engagement sessions
2. Submit comments via email to declimateplan@delaware.gov
3. Fill out a questionnaire online by visiting de.gov/climateplan

(complete list of goals, strategies and actions on following pages)

Implementation and Use of the Plan

Use of the Plan

- State agencies
- Local Governments
- Energy Plan
- And others

Implementation

- Not just DNREC!
- Actions taken as staffing, funding and partnerships allow
- Progress report every 2 years





DELAWARE'S

Climate Action Plan

Feedback requested by October 10
Final Plan due November 2025



www.de.gov/climateplan



DEClimatePlan@delaware.gov



Public Comment

- If participating in person:
 - Please fill out the sign-in sheet if you have not done so already
- If participating virtually:
 - Please use the “Raise Hand” function at the bottom of your screen
 - When it is your turn, you will be asked to manually unmute yourself

Break

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GEAC Update: Implementing the 2024 - 2028 Delaware State Energy Plan

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Tom Noyes
Administrator, DNREC State Energy Office
October 10, 2025



DELAWARE DEPARTMENT OF
NATURAL RESOURCES AND
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DNREC State Energy Office

What we do:

- Renewable energy
- Energy efficiency
- Grid modernization
- Energy security
- Energy justice
- Stakeholder engagement
- GEAC
- Emerging issues



DNREC State Energy Office



Climate, Coastal and Energy

- Home
- Contact Us
- I Am a ...
- Climate Action Plan
- State Energy Office
- Renewable Energy
- Energy Efficiency
- Transportation
- Communities
- Coastal Programs
- Coastal Zone Act
- Menu Item

The State Energy Office provides guidance on adopting and implementing smart energy choices through energy conservation and efficiency measures.

DNREC's State Energy Office has launched an **Energy Hub**, a one-stop shop for all things energy in Delaware, designed to keep Delawareans informed of the changing energy landscape in the state. The Energy Hub includes information about the [state's updated energy plan](#), a profile of energy sources and uses, and information on clean energy, energy justice and grid modernization strategies.

The Energy Office Can Help You

[Find programs and funding](#) available through the federal **Bipartisan Infrastructure Law (BIL)**, also known as the Infrastructure Investment and Jobs Act (IIJA).

Bipartisan Infrastructure Law

Inflation Reduction Act

[Find programs and funding](#) available through the federal **Inflation Reduction Act**.

Governor's Energy Advisory Council

If you have **questions about your high energy bills**, including where to get help, you can [find information of the Delaware Public Advocate website](#).

Efficient and Renewable Energy

The DNREC State Energy Office supports [energy efficiency and conservation programs](#) that help reduce energy use and its impact on the state's environment and public health. It supports the use of [renewable energy](#) by homeowners and businesses through grant funding, incentives, and technical guidance.

The Energy Efficiency Advisory Council

The [Energy Efficiency Advisory Council](#) develops and deploys energy efficiency programs and financing mechanisms offered by Delaware energy providers.

The Energy Efficiency Investment Fund

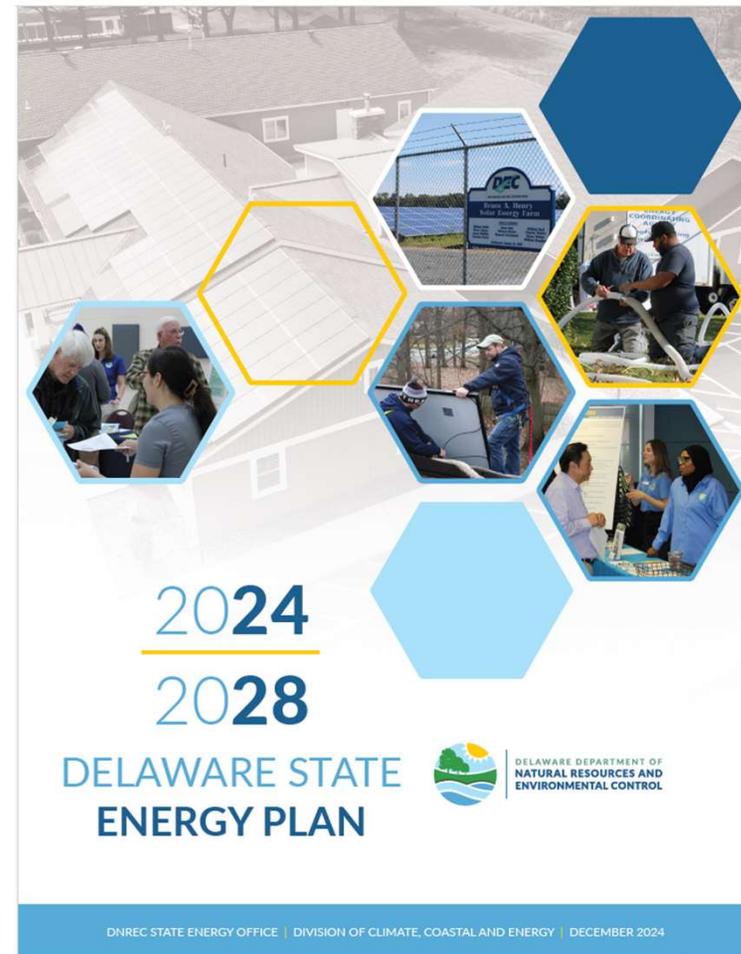
The Energy Efficiency Investment Fund provides rebates for non-residential customers in Delaware to replace

2024 - 2028 Delaware State Energy Plan

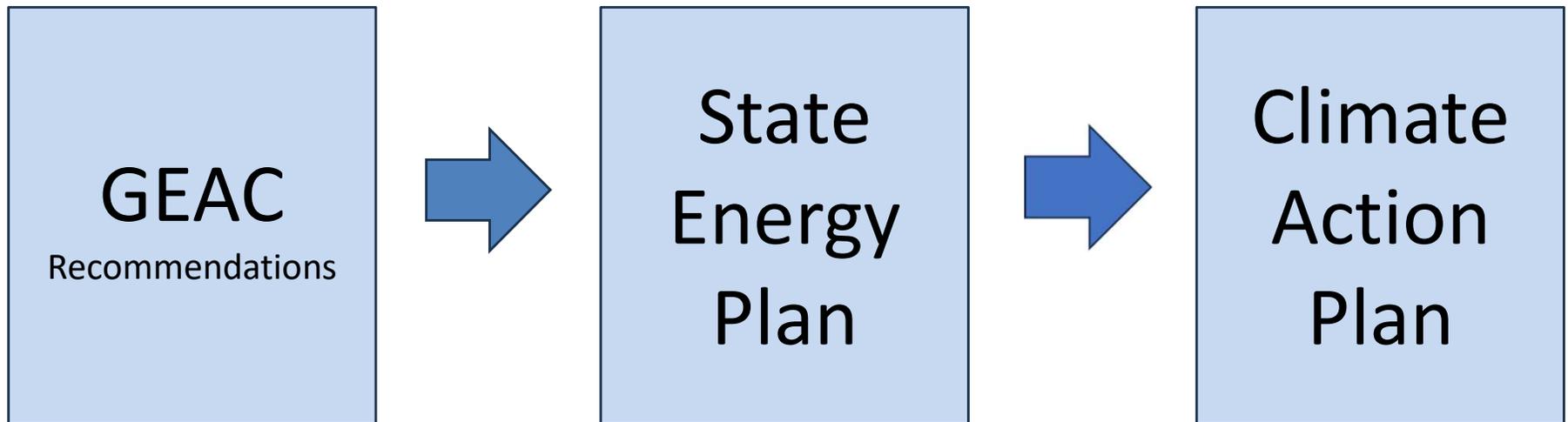
Released December 2024

Five strategic areas:

- Energy Justice
- Renewable Energy and Clean Technologies
- Energy Efficiency and Beneficial Electrification
- Grid Modernization
- Workforce Development



GEAC, State Energy Plan & Climate Action Plan



Delaware Energy Hub



Home

Energy Justice

Renewable Energy

Energy Efficiency

Grid Modernization

2024 Energy Plan



Delaware Energy Hub

DELAWARE'S STATE ENERGY PLAN

Welcome!

Welcome to the Delaware Energy Hub. Here you will find information and data from our 2024-2028 State Energy Plan, which was informed by feedback from the Governor's Energy Advisory Council, subject matter experts, and members of the public.

<https://energyhub.delaware.gov/>

Strategic Summary

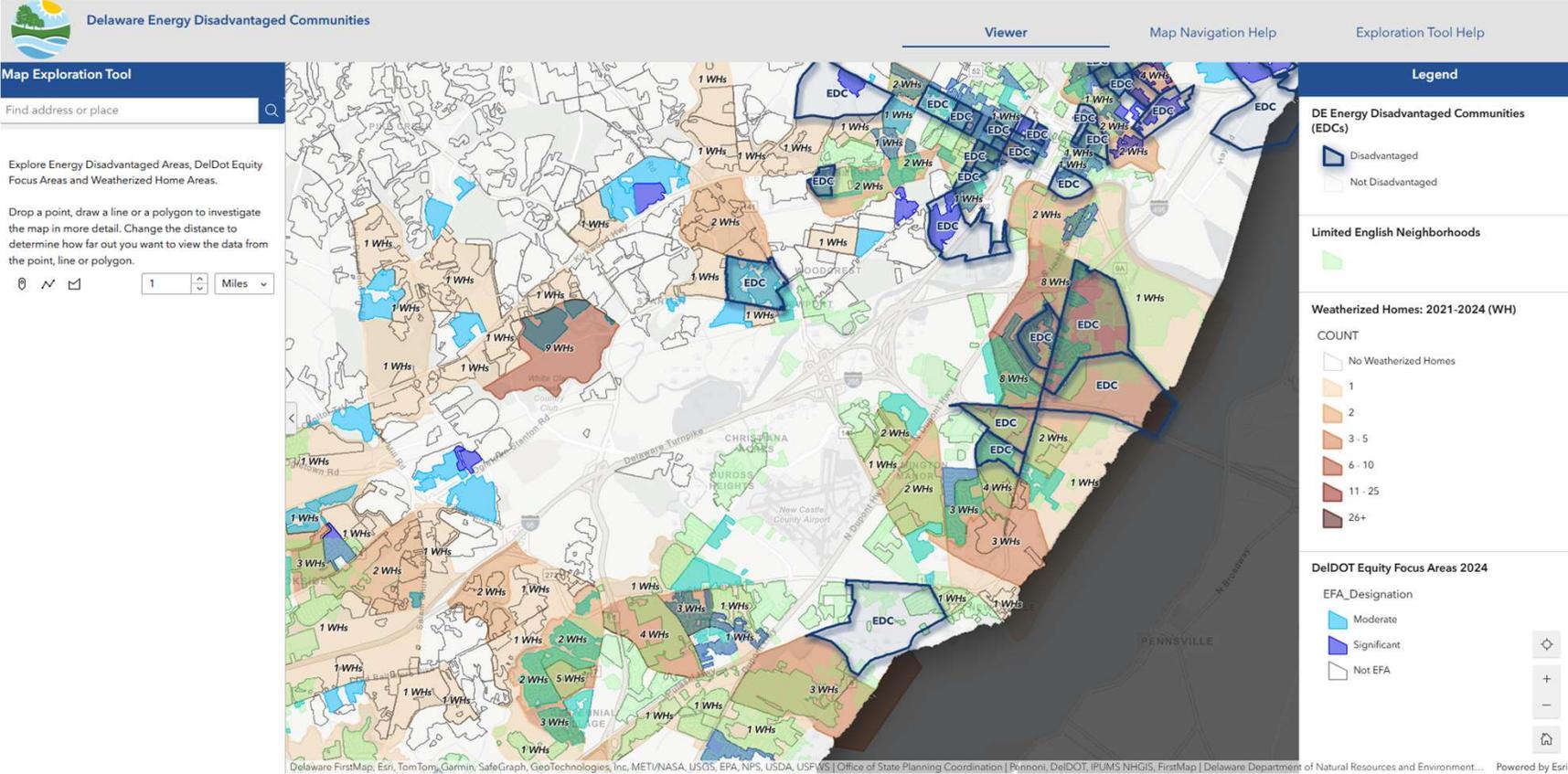
In 2025, the DNREC State Energy Office has been focused on:

- Rolling out the Delaware Energy Hub and using mapping tools to target and evaluate programs and policies
- Incorporating energy justice in programs and policies across the board
- Updating the State's Energy Codes
- Undertaking the Grid Modernization study
- Researching clean technologies including nuclear
- Connecting State Energy Plan strategies into the next update of the Climate Action Plan
- Working to implement EO 10 on workforce development
- Engaging in multi-state collaborations on capacity markets, load growth, and PJM governance
- Working with PSC and DPA on data centers and load growth

Energy Justice

Strategies	Status/Path Forward
Initiate studies to identify energy burdened communities	<ul style="list-style-type: none">▪ The Delaware Energy Hub includes an Energy Disadvantaged Communities (EDC) Viewer▪ Mapping tools being used to direct program resources and evaluate outcomes
Assess a new utility rate structure for low-income electric customers	<ul style="list-style-type: none">▪ HS 2 for HB 116 w/ SA 1 (provides the PSC with the flexibility to consider and approve discounted rates for low-income customers) signed into law

Energy Disadvantaged Communities Viewer



Renewable Energy and Clean Technologies

Strategies	Status/Path Forward
Establish statewide goals for distributed solar generation	<ul style="list-style-type: none">▪ Most recent update:<ul style="list-style-type: none">▪ 10,000+ solar installations▪ 244 MW▪ Solar market potential study:<ul style="list-style-type: none">▪ RFP published▪ Results slated for 2026
Expand equitable access to renewable energy	<ul style="list-style-type: none">▪ Expanding LMI Solar Pilot Program▪ Worked with NASA on survey of solar (+storage) potential in Wilmington

Renewable Energy and Clean Technologies

Strategies	Status/Path Forward
Develop and implement an offshore wind strategy that meets Delaware’s needs	<ul style="list-style-type: none"> ▪ Working with states on best regional long-term (2025-2028) path forward: <ul style="list-style-type: none"> ▪ Procurement planning and coordination ▪ Transmission planning ▪ Supply chain and workforce coordination
Monitor and benefit from emerging renewable and clean technologies	<ul style="list-style-type: none"> ▪ Joined NASEO/NARUC Advanced Nuclear State Collaborative ▪ Preparing to participate in Nuclear Task Force (SCR 18) ▪ Exploration of Hydrogen opportunities

Energy Efficiency and Beneficial Electrification

Strategies	Status/Path Forward
<p>Encourage on-street EV charging</p> <p>Ensure the electric distribution network is ready for electric vehicles</p>	<ul style="list-style-type: none"> ▪ Report, <i>Delaware’s Roadmap to Electric Vehicles</i>, published in 2025 ▪ Chapters include: <ul style="list-style-type: none"> ▪ “Expand Access to Electric Vehicle Charging” ▪ “Support Grid Stability and Resilience”
<p>Track and measure progress toward energy efficiency and electrification</p>	<ul style="list-style-type: none"> ▪ Start Action Notice to update EM&V regs signed March 30, 2025 ▪ Public hearing held September 22, 2025

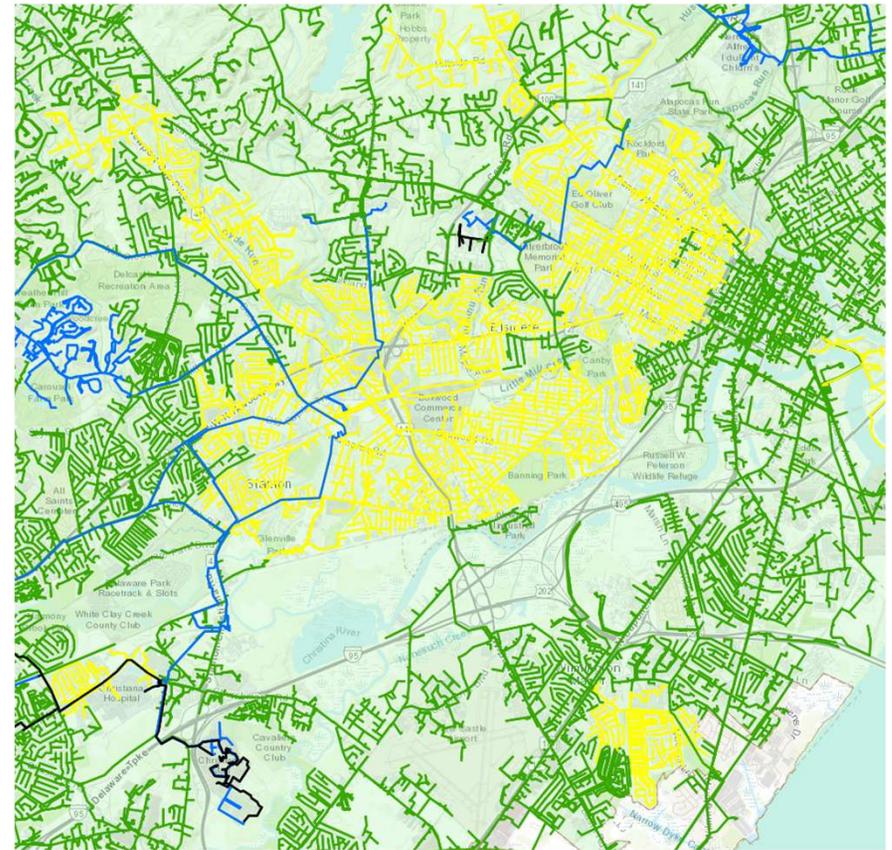
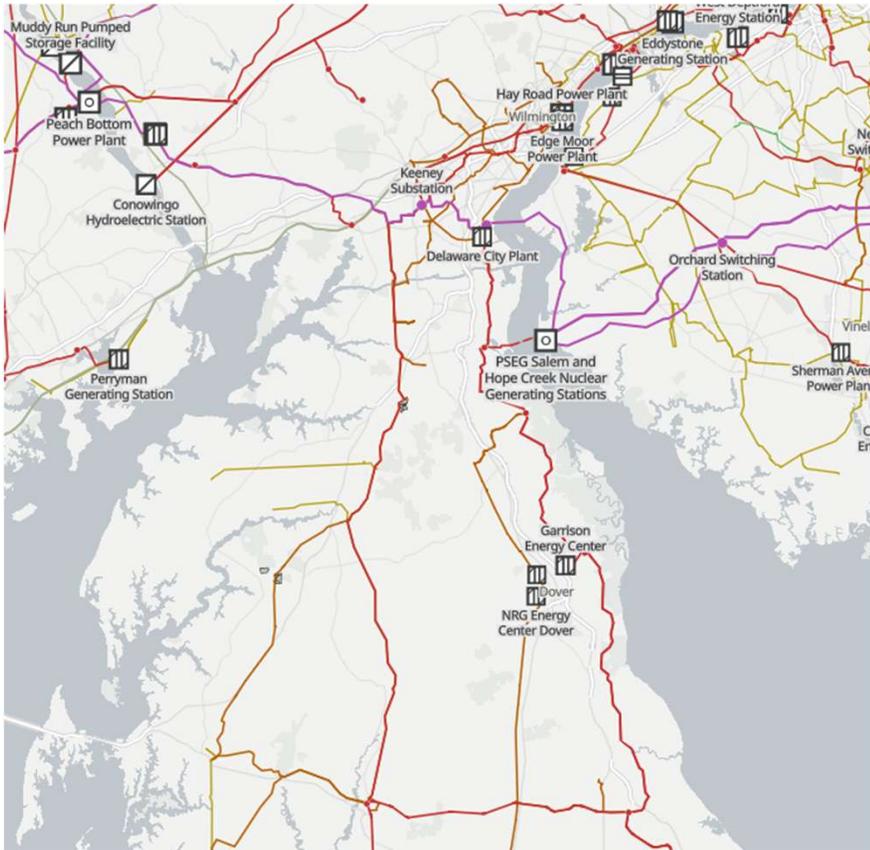
Energy Efficiency and Beneficial Electrification

Strategies	Status/Path Forward
Support voluntary stretch code adoption	<ul style="list-style-type: none">▪ 16 <i>Del. C.</i> §7605 updated in 2024 to provide framework for local governments to adopt stretch codes
Support net-zero capable (ZNEC) building energy codes in new construction	<ul style="list-style-type: none">▪ Draft State Energy Conservation Code includes provisions to meet statutory net-zero capable (ZNEC) requirements by December 31, 2025▪ ZNEC codes for new commercial buildings required by 2030▪ Publication of final Energy Code regulation pending

Energy Efficiency and Beneficial Electrification

Strategies	Status/Path Forward
<p>Adopt and work with local governments to support enforcement of stronger state energy codes</p>	<ul style="list-style-type: none"> ▪ Local governments (and other stakeholders) included in energy codes development ▪ SEO grant application to USDOE includes funding for training programs and technical support ▪ DOE has issued conditional award (status uncertain)
<p>Improve existing building energy performance by developing statewide building performance standards</p>	<ul style="list-style-type: none"> ▪ SEO has submitted grant application to USDOE for building performance standards (BPS) for large commercial buildings ▪ DOE has issued conditional award (status uncertain)

Transmission and Distribution Grids



<https://openinframap.org>

<https://www.delmarva.com/smart-energy/my-green-power-connection>

Grid Modernization

Strategies	Status/Path Forward
Clarify the Public Service Commission’s role as siting and routing authority	<ul style="list-style-type: none"> ▪ Energy Solutions Act of 2024 gives the PSC authority to issue a CPCN in connection with renewable energy interconnection facilities 30 MW or larger
Promote energy storage projects at different scales in Delaware	<ul style="list-style-type: none"> ▪ SJR 3 w/ SA 2 mandates a study by the SEU and SEO on the costs and benefits of energy storage systems
Modify rate design to encourage customer-controlled energy management	<ul style="list-style-type: none"> ▪ Time of use (TOU) rate study anticipated for 2026
Maximize resiliency of energy infrastructure to combat climate change vulnerabilities such as extreme heat and weather events	<ul style="list-style-type: none"> ▪ Energy Security Plan ▪ 40101(d) grid resilience program

Grid Modernization

Strategies	Status/Path Forward
Modernize Delaware’s distribution networks to integrate distributed energy resources and non-wires alternatives	<ul style="list-style-type: none"> ▪ SEO is undertaking a Grid Modernization Study to develop strategies to promote a resilient, reliable grid to accommodate new technologies <ul style="list-style-type: none"> ▪ Consultants onboard Q3 2025 ▪ Study completion expected Q3 2026
Adopt innovative rate design and utility programs that use smart grid technologies for peak shaving, demand response and increased reliability as cost effectively as possible	<ul style="list-style-type: none"> ▪ The Grid Mod Study will review approaches to use new technologies such as Grid Enhancing Technologies (GETs), EVs and distributed energy resources (DERs) to strengthen the grid
Use advanced technologies to integrate and control behind-the-meter distributed energy resources	<ul style="list-style-type: none"> ▪ Part of the Grid Mod Study
Promote microgrid projects in Delaware	<ul style="list-style-type: none"> ▪ Part of the Grid Mod Study

Grid Modernization

Strategies	Status/Path Forward
Prepare electric utility transmission lines and substations to integrate the increasing use of renewable resources	<ul style="list-style-type: none"> ▪ Part of the Grid Mod Study
Modernize Delaware’s distribution networks to integrate distributed energy resources and non-wires alternatives	<ul style="list-style-type: none"> ▪ Part of the Grid Mod Study
Adopt innovative rate design and utility programs that use smart grid technologies for peak shaving, demand response and increased reliability as cost effectively as possible	<ul style="list-style-type: none"> ▪ Part of the Grid Mod Study
Use advanced technologies to integrate and control behind-the-meter distributed energy resources	<ul style="list-style-type: none"> ▪ Part of the Grid Mod Study

Cross-cutting Strategies: Regional Collaborations

Strategies	Status/Path Forward
Develop partnerships with neighboring states	<ul style="list-style-type: none"> ▪ National Governors Association re regional markets, interconnection queue, load growth, capacity markets ▪ SEO and PSC active in PARSEC (PJM Area Relevant State Entities Committee) ▪ PSC, SEO: OPSI (Org. of PJM States, Inc.) ▪ OSW planning and coordination: ongoing
Participate in regional transmission planning	<ul style="list-style-type: none"> • SEO active in Northeast States Collaborative on Transmission ▪ The National Governors Association is active transmission planning

Workforce Development

Strategies	Status/Next Steps
<p>Increase collaboration in expanding clean energy workforce development programs</p>	<ul style="list-style-type: none">■ 2024 Delaware Clean Energy and Climate-Related Jobs Workforce Development Assessment completed■ EO 10, signed May 27, 2025, establishes the Office of Workforce Development to:<ul style="list-style-type: none">■ “streamline duplicative efforts ... identify and harness synergies ...”■ “focus on training Delawareans in the advanced technologies of tomorrow”

Emerging Issues: PJM

Issues	Status/Next Steps
PJM states are seeking to exert more influence in governance	<ul style="list-style-type: none"> ▪ States Technical Conference on PJM Governance convened in September 2025 ▪ Delaware participating in new PJM State Governor’s Collaborative ▪ Consumer Advocates of the PJM States, Inc. (CAPS) ▪ Organization of PJM States, Inc. (OPSI) ▪ Independent State Agencies Committee (ISAC) ▪ PJM Area State Entities Committee (PARSEC)
PJM capacity markets driving higher energy prices due to load growth and uncertainty	<ul style="list-style-type: none"> ▪ Critical Issue Fast Path (CIFP) started on capacity auctions and load growth

Emerging Issues: Data Centers and Load Growth

Issues	Status/Next Steps
Data centers and load growth nationally, regionally, and in Delaware	<p>From the “State Data Center Playbook”</p> <ol style="list-style-type: none"> 1. Improve administrative information collection & processing of data center requests 2. Clarify the right of utility regulators to tailor rates to data centers 3. Establish substantive requirements for new requests 4. Moratorium
Data center proposal in Delaware: 1,200 MW capacity would equal 44% of Delaware’s projected peak summer load	<ul style="list-style-type: none"> ▪ PSC Docket 25-0826 for DPL to promulgate a large load tariff ▪ HB 233 would require utilities to establish large load rate class ▪ NCC Ordinance 25-101 being reviewed by PLUS (Preliminary Land Use Service)

Thank you

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Tom Noyes
DNREC State Energy Office
Division of Climate, Coastal and Energy
<https://dnrec.delaware.gov/climate-coastal-energy/energy-office/>



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