



Energy Efficiency and Electrification Recommendations from the GEAC

January 24, 2024



Introduction

- Governor's Energy Advisory Council (GEAC) Energy Plan Recommendation process concluded in December
- Many topics discussed at the GEAC overlap with those of the EEAC
- Purpose of presentation is to keep EEAC members informed of GEAC work and identify recommendations that may impact work of the EEAC

Roles and Responsibilities: GEAC

The Governor's Energy Advisory Council shall monitor Delaware's energy system, identify and propose actions to enhance Delaware's energy system, including actions to lessen the climate change impacts of Delaware's energy system, and provide counsel to the Governor on promoting an economic, reliable, and competitive energy market for all Delaware consumers.

Roles and Responsibilities: GEAC

The Governor's Energy Advisory Council shall be assigned the following responsibilities:

- Providing recommendations to the State Energy Office on updates to the Delaware Energy Plan and Climate Action Plan every 5 years from date of enactment. The updating process shall include a process for public input and measures for progress in attaining goals identified in the plans.
- Monitoring federal, state and regional energy issues, identifying the impacts on Delaware and recommending actions and policies to the Governor and General Assembly in response to identified issues.
- Other duties as referred by the Governor.

Working Groups

- **GEAC Working Groups Included:**

Renewable Energy and Clean Technologies

- RPS
- Offshore Wind
- Clean hydrogen
- Storage
- Emerging Technologies

Energy Efficiency (EE) and Electrification

- Current EE programs
- Transportation electrification/EVs
- Building electrification
- Reliability

Grid Modernization

- Transmission and distribution systems
- Resiliency
- Reliability

Environmental Justice and Energy Equity

- Impact on EJ communities
- Societal benefit programs
- Justice40 Initiative
- Workforce Development

Energy Efficiency and Electrification Recommendations

Strategic Areas:

- Building Energy Efficiency and Electrification (EE and E) Programs
- Codes and Standards
- Vehicle Electrification
- Training, Education, and Community Engagement
- Data, metrics, and target-setting
- Funding

Building Energy Efficiency and Electrification (EE and E) Programs

#	Recommendation
1	Conduct a comprehensive Greenhouse Gas (GHG) reduction potential study to identify and assess energy efficiency and electrification programs needed for reaching the State's 2050 GHG target.
2	Assess all potential and existing programs to find gaps, including incentives, and to ensure they are aligned with state climate goals.
3	Refine and clarify the current state Energy Act to reflect HB99 state GHG goals by: <ul style="list-style-type: none">• Aligning EE&E reduction targets with the State 2050 GHG mandate after a potential study is complete and the findings are reviewed.• Adding electrification targets.• Ensuring utility Energy efficiency targets do not conflict with the load increase expected from electrification.• Define and clarify how the targets are divided between utilities, DESEU, and DNREC and create a collaborative planning and tracking structure for achieving the state GHG reduction target
4	Identify DE-specific barriers and develop a building decarbonization plan to address these barriers (for customers, vendors, installers) and opportunities (Inflation Reduction Act (IRA), Investment in Infrastructure and Jobs Act (IIJA)/Bipartisan Infrastructure Law (BIL), and other fundings) to guide the state's electrification programs, plans, and investments.
5	Identify and demonstrate opportunities for reducing energy use and GHG emissions among Delaware's largest energy users.

Codes and Standards

#	Recommendation
6	In state code, clarify the process and timeline by which local governments adopt the state energy code to ensure code implementation, compliance, and enforcement by local government code officials reporting their compliance and enforcement findings to the State Energy Office and conducting energy code compliance studies on a regular basis
7	Initiate an analysis of the benefits of a statewide building code that does not have to be adopted by each specific municipality or county (i.e. a statewide umbrella code)
8	Clarify in the state code that local governments can adopt more stringent building energy codes in the form of stretch codes. Enable and encourage local governments to adopt strengthening or stretch codes through technical assistance and clarifications to the state code.
9	Support zero net energy (ZNE) and beyond code construction through resources and training.
10	Conduct a study to determine whether statewide appliance standards are a feasible and cost-effective option towards EE.

Vehicle Electrification

#	Recommendation
13	Develop policies and programs to reduce the impact of demand charges on consumers and fleet owners, including transit operators.
14	Develop and recommend strategies that will shift EV charging load and optimize for potential distribution system constraints related to EV charging, including time of use rates, managed charging, and vehicle to grid.
15	Provide education and technical assistance for commercial customers and car dealers.
16	Identify and recommend strategies to aid the transportation system in preparing for, and benefiting from, the electrification of transportation.
17	Recommend legislation establishing a revised fee structure for all vehicles to include ZEVs and LEVs that will provide for Delaware's infrastructure needs as motor fuel tax income is reduced.

Training, Education, and Community Engagement

#	Recommendation
18	Promote expanding workforce development opportunities for energy efficiency, electrification, and code compliance efforts by working with educational institutions and other stakeholders.
19	Increase education for stakeholders and community engagement around energy efficiency and electrification programs, opportunities, and benefits.

Data, metrics, and target-setting

#	Recommendation
20	Establish a tracking, reporting, and accountability system to accurately measure progress from EE&E programs toward state GHG emission reduction, electrification, and energy efficiency goals.

Funding

#	Recommendation
21	Minimize utility bill impacts on ratepayers by exploring and leveraging federal and other funding opportunities.

Next Steps

- The State Energy Office shall:
 - Facilitate the development of a comprehensive State Energy Plan designed to protect the health, safety and welfare of the citizens and economy of the State and which shall include, but not be limited to:
 - a. Encouraging and promoting conservation of energy [...]
 - b. Encouraging and promoting the use of renewable electric generation facilities and alternate energy technologies [...]
 - c. Encouraging and promoting such other energy efficiencies and conservation goals, methods, standards, training, programs and policies [...]

Questions for the EEAC

- How should the work of the GEAC inform the work of the EEAC?
- What recommendations might make sense for the EEAC to focus on?
 - What would be a reasonable timeframe?

Thank you