

DER

Massachusetts Department
of Energy Resources

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENERGY RESOURCES

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ACEC/MA Utilities & Energy Conference 2024

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Introduction to DOER



Executive Office of Energy and Environmental Affairs (EEA)

Massachusetts Department of Energy Resources

**Green
Communities**

Cross-Divisional Support

Federal Funding, Energy Security, Engagement, Legal, Finance

**Leading by
Example**

**Policy, Planning,
and Analysis**

**Renewable and
Alternative Energy**

**Energy
Efficiency**

2024 Policy Goals

| | |
|---|--|
| Implement Policy and Regulations Efficiently | Increase the capacity for DOER to implement core responsibilities with increased workloads |
| Disburse Funding | Expediently disburse to realize benefits |
| Collect and Share Data and Information | Improve processes to collect information and increase transparency with data sharing |
| Engage Communities and Stakeholders | Strengthen existing and develop new communication strategies to empower communities to engage in the clean energy transition |
| Work with our Utilities | Proactively engage utilities to recommend and support utility work that is ambitious and achieves Commonwealth goals |
| Coordinate with Other State Agencies | Support other agencies achieve clean energy policies |
| Develop Strategic Policy | Ensure outcomes from working groups and councils are actionable with clear objective |
| Empower DOER | Set and achieve goals and targets for DOER |

2024 Key Projects



Building Energy Reporting & Building Codes



Mass Save[®] Three Year Plan



Climate Leaders and State Government Decarbonization



Deploy Federal Funding (including Solar for All)



Electric Sector Modernization Plans



Low Income Services Solar Program and SMART Review



Energy Storage Grants and Clean Peak Standard Review



Section 83C Round 4: Offshore Wind Solicitation - Selection

Renewable and Alternative Energy

Goals for 2024

- Review and improve existing incentive programs to:
 - Responsibly manage ratepayer funds
 - Ensure broad participation of low- and moderate-income customers and equitable benefits
 - Streamline program requirements and application processes
 - Provide reliable revenue streams for project developers
- Develop new incentive programs to facilitate the deployment of renewables in key areas

Renewable and Alternative Energy

2024 Key Projects

- [Solar Massachusetts Renewable Target \(SMART\) Review](#) and Straw Proposal
- Low-Income Services Solar Program (LISSP)
- [Solar for All](#)
- [Clean Peak Energy Standard \(CPS\) Review](#)
- [Energy Storage Grant Program](#)
- Renewable Energy Portfolio Standard (RPS) Portal Development
- Massachusetts Hydrogen Roadmap

Energy Efficiency

Goals for 2024

- Advance building decarbonization
 - Building codes
 - Building reporting
- Equitable delivery of energy efficiency and decarbonization investment
 - Affordable housing grants
 - Program development

Energy Efficiency

2024 Key Projects

- 2025-2027 Three-Year Energy Efficiency Plan
- Building Energy Reporting regulations
- Affordable Housing Decarbonization Grant Program
- Launch the Merrimack Valley Energy Efficiency Enrichment Program
- HER/HEAR funding

Procurement

- Statewide Contract
 - Overseen by the Operational Services Division (OSD)
 - OSD's Statewide Contracts
 - Get on statewide contract
 - Team with someone who already is
 - ALL procurements must go through Statewide Contract
 - Unusual pursue a purchasing pathway outside of Statewide Contract.

Energy codes... objective: decarbonization



Renewables



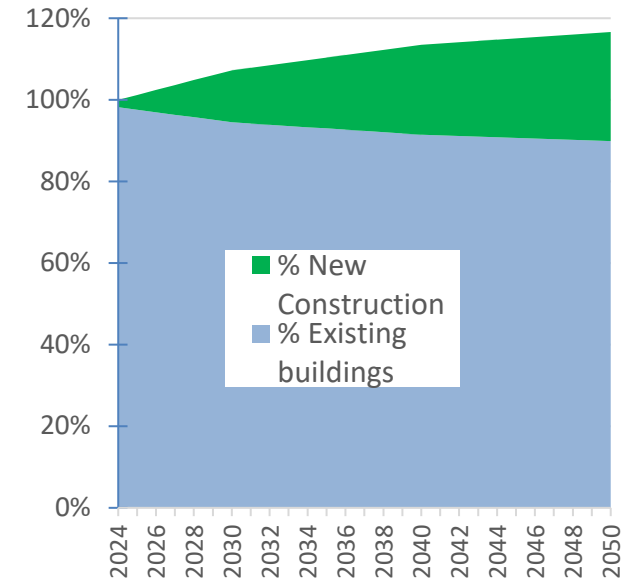
**Very low heat demand buildings
+ Heat Pumps
+ EV ready**



**"crush the heating"
"electrify everything"**

Thermal codes are grid mod

**New Construction % of
MA total
2024-2050**



**Decarbonized
building sector**

Massachusetts **Thermal Code:**

Add the four pillars to the model code to crush space heating



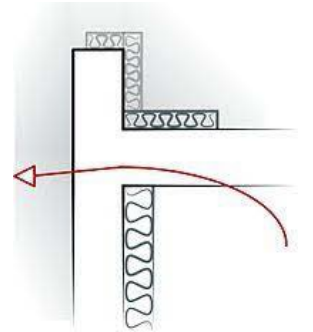
Envelope
U-value



Low Air
infiltration

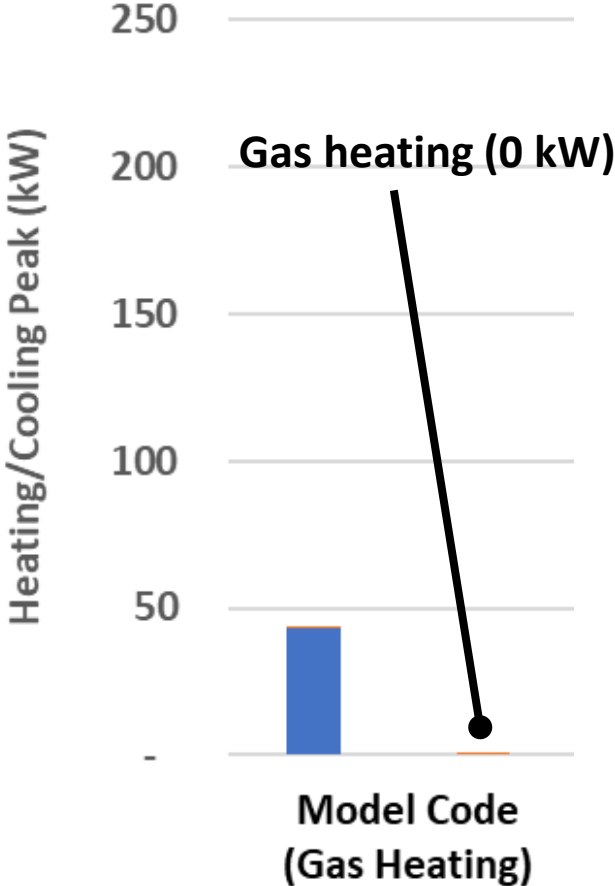


Ventilation
energy recovery



Thermal bridge
mitigation

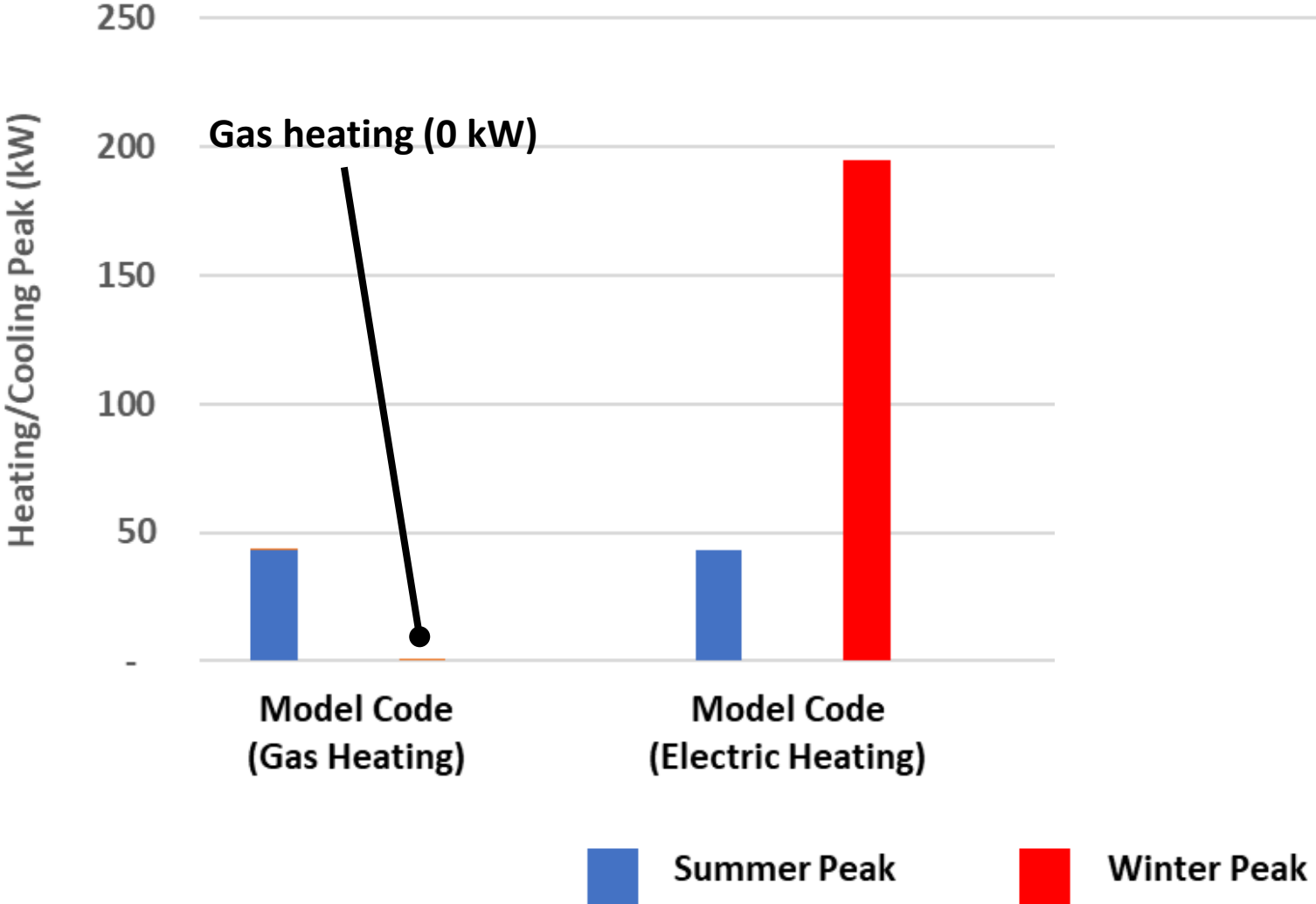
Load on Electric Grid due to Heating/Cooling School



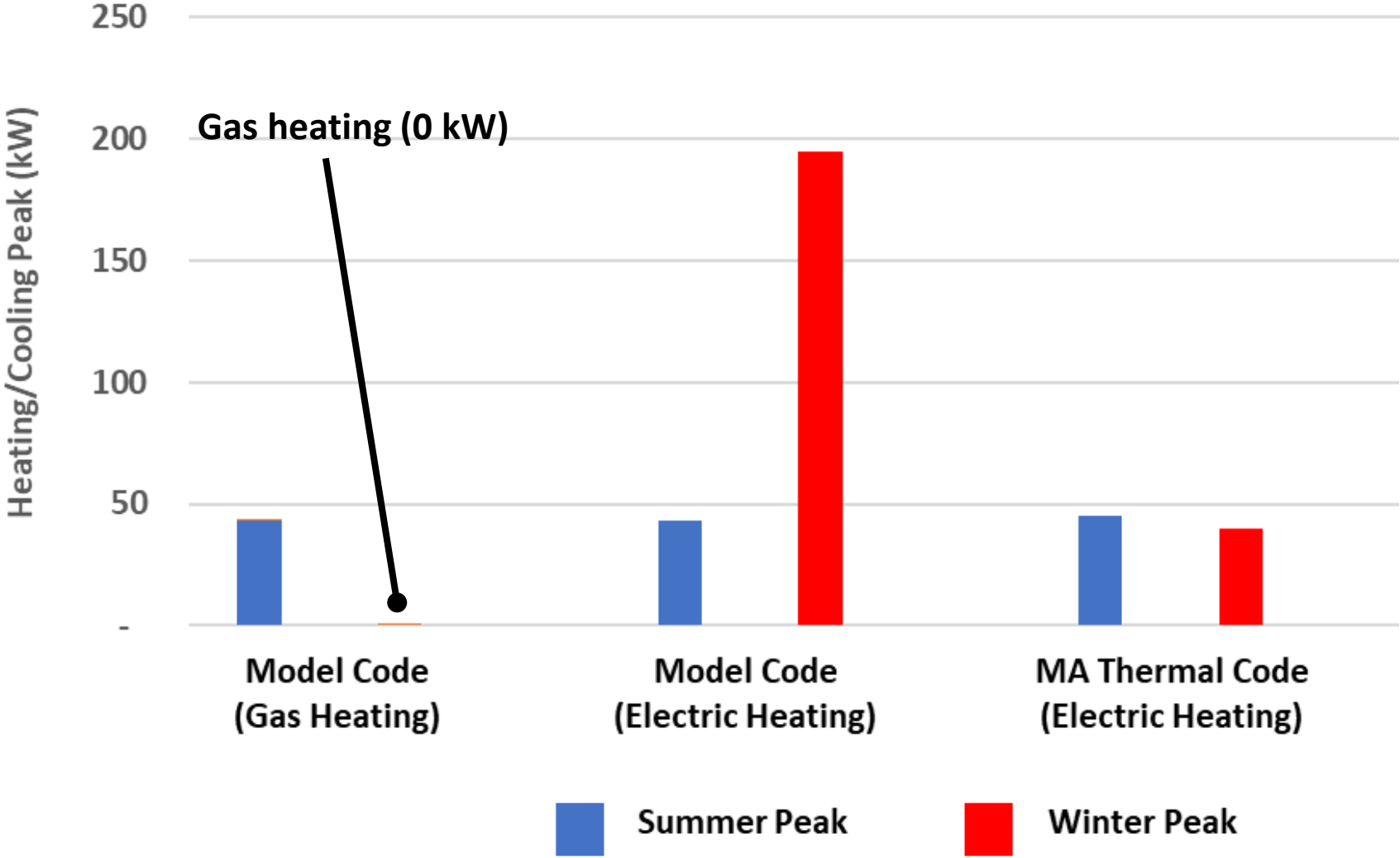
Summer Peak

Winter Peak

Load on Electric Grid due to Heating/Cooling School



Load on Electric Grid due to Heating/Cooling School



Data Credit: Massachusetts Department of Energy Resources

Where we are and where we are going

Today



Massachusetts' thermal code has changed the industry for **new construction**. Thermal bridge mitigation, ventilation energy recovery, quality envelope, full electrification, and Passivehouse are now routine. **Heat loads are being crushed to oblivion!**

Tomorrow



The next challenge is crushing heat loads in **existing buildings**. One promising approach is EnerPhit – an approach which “wraps” the building with a new envelope. **Let's give our buildings a big hug!**

THANK YOU!