



Massachusetts Department
of Energy Resources

COMMONWEALTH OF MASSACHUSETTS

Charles Baker, Governor

Kathleen Theoharides, Secretary

Patrick Woodcock, Acting Commissioner

*Green Communities Division
Webinar*

January 30, 2020

Overview of 2020 Competitive Grants

Green Communities Division

The energy hub for **all** Massachusetts cities and towns, not just designated Green Communities.



Green Communities Division - Programs & Resources for Municipalities

- Green Communities Designation and Grant Program
- MassEnergyInsight energy tracking and analysis tool
- Municipal Energy Technical Assistance
- Website filled with tools & resources
www.mass.gov/orgs/green-communities-division
- Email updates via e-blasts – Sign up by sending an email to: join-ene-greencommunities@listserv.state.ma.us



*Helping Massachusetts Municipalities Create a Clean,
Affordable, and Resilient Energy Future*



Green Communities Regional Coordinators

- Regional Coordinators act as direct liaisons with cities and towns on energy efficiency and renewable energy activities
- Located at each of the DEP Regional Offices:



WERO – SPRINGFIELD: Mark Rabinsky
Mark.Rabinsky@mass.gov
413-755-2232



NERO – WILMINGTON: Neal Duffy
Neal.Duffy@mass.gov
978-694-3315



CERO – WORCESTER: Kelly Brown
Kelly.Brown@mass.gov
508-767-2703



SERO – LAKEVILLE: Lisa Sullivan
Lisa.M.Sullivan@mass.gov
508-946-2822



Helping Massachusetts Municipalities Create A Greener Energy Future



Upcoming Events



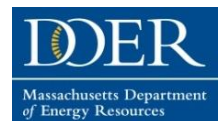
- TBD: Next webinar – “*Passive House Primer*”
- March-April – Heat Pump/VRF training

Recording & Presentation

- The webinar is being recorded and will be available on our website in approximately 48 hours at: www.mass.gov/orgs/green-communities-division-massdoer
- Click on the camera icon top right of your screen to save any slides for future reference
- Use the Q & A icon on your screen to type in questions



Helping Massachusetts Municipalities Create A Greener Energy Future



Grant Facts At-A-Glance

- Only eligible Green Communities can apply
- Full or partial funding of clean energy projects at municipal/school facilities
- Deadline is **5 pm, March 27**
- Applications accepted **online only** via DOER's grant portal
- Max award \$200k/\$100k



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Eligibility

- ☑ Must be a Green Community “in good standing”
 - Submitted FY 2019 Annual Report by Dec 6th deadline and addressed outstanding issues by Feb 14
 - Demonstrates still meet “5 Criteria”
- ☑ Previous grants expended and closed out
 - Final Grant Report submitted by 5 pm, Feb 3 and addressed outstanding issues by March 6

Poll Question #1

Has your municipality applied for a competitive grant before?

Yes, 3 or more times

Yes, less than 3 times

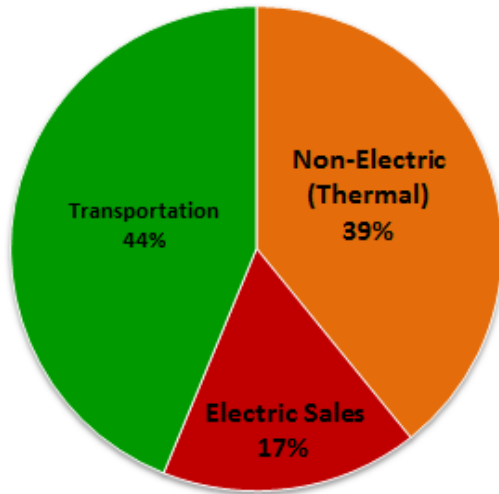
No

Not sure

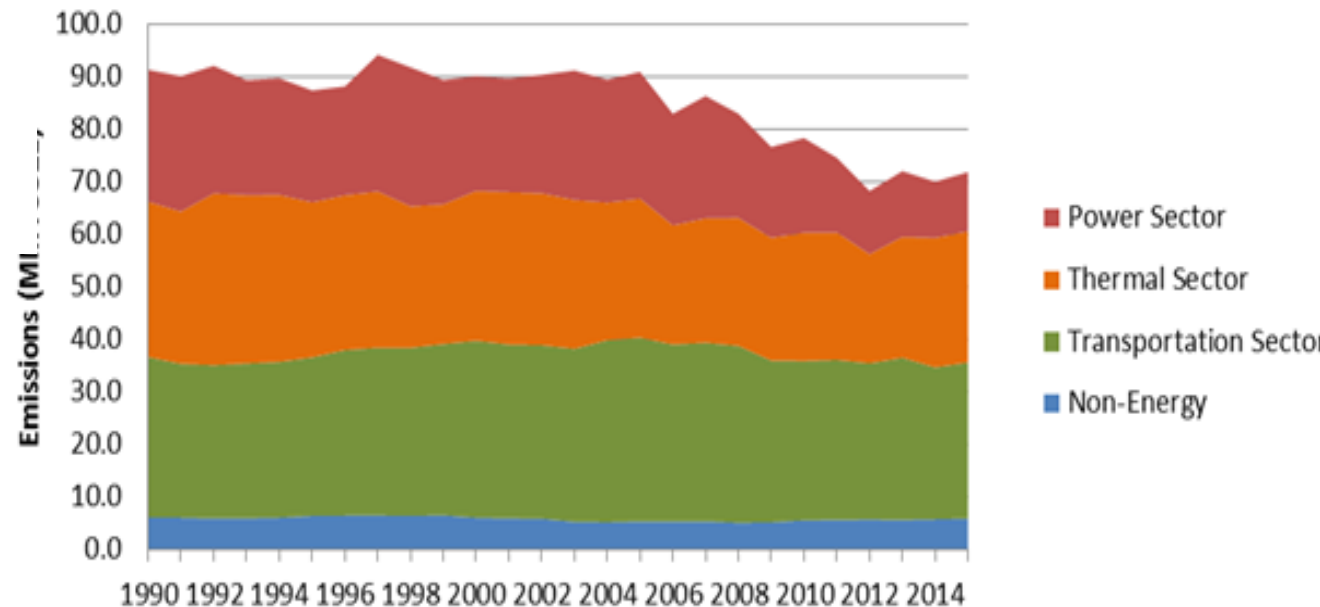
MASSACHUSETTS ENERGY USE AND EMISSIONS BY SECTOR

Massachusetts Energy Demand

Total: 1,074 Trillion BTU in 2016



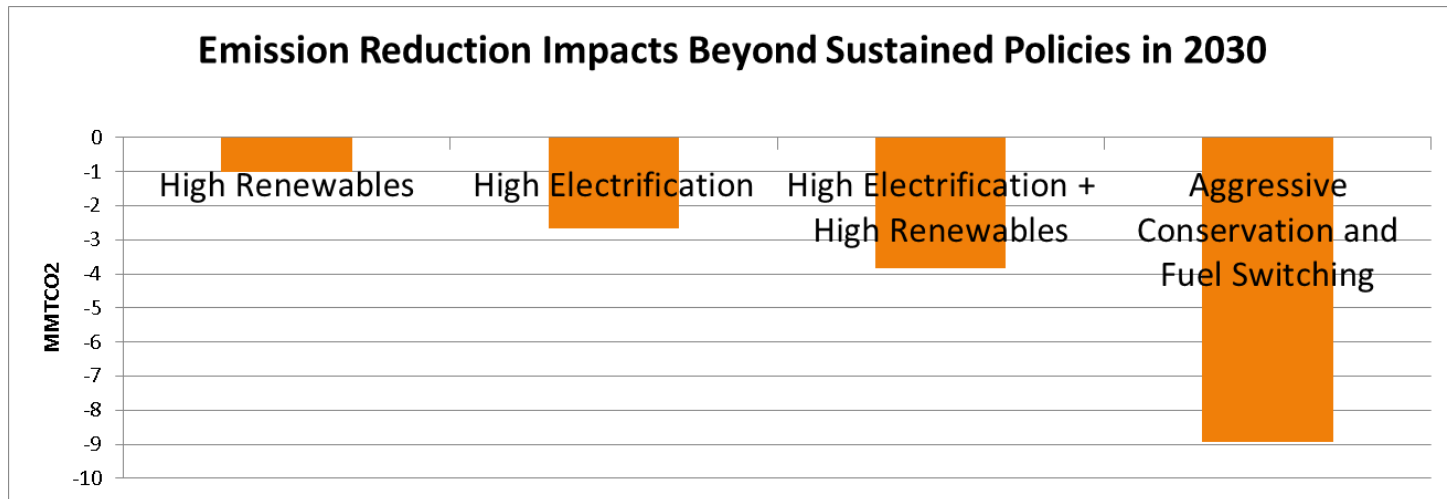
Massachusetts Greenhouse Gas Inventory



Electric generation is our smallest use of energy in the Commonwealth, but it is where we have made the greatest progress in reducing emissions

FINDINGS: IMPACT ON EMISSIONS

- With sustained policies, Massachusetts estimated to achieve 35% emission reduction from 1990 levels by 2030); key findings for additional reductions:
 - Focusing policies primarily on the electric sector has diminishing returns, increasing rates with while realizing only modest decreases in GHG emissions
 - Electrifying the thermal and transportation sector leverages investments made in a cleaner electric grid
 - Conservation and peak demand reduction important as use of electricity for heating and transportation grows
 - Improving building efficiency is important to achieving reduced emissions in thermal sector
 - Alternative fuels, such as biofuels, can assist in transition to cleaner heating and transportation



Greatest amount of emissions reductions are achieved by combining increased use of clean energy in all sectors while simultaneously decreasing overall energy consumption

Clean Energy Goals 2020 - Beyond

THERMAL SECTOR

- Leverage investments made in the clean energy sector through electrification
- Promote fuel switching from more expensive, higher carbon intensive fuels to more efficient technologies (electric air source heat pumps, renewable thermal, biofuels)
- Reduce thermal sector consumption

ELECTRIC SECTOR

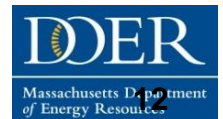
- Prioritize electric energy efficiency and peak demand reductions
- Increase cost-effective renewable energy supply

TRANSPORTATION SECTOR

- Increase the deployment of low-emission vehicles, EVs and charging infrastructure



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New This Year...

- Reduced awards to “\$750k club”
 - Max award \$100k
- Check “measure-life” of project
 - DOER will not fund costs beyond measure-life
 - Municipal cost share expected
- DOER support for new oil-fired heating equipment limited
 - Any requests for new oil-fired heating equipment must include explanation why alternatives are not feasible

Weatherization Requirement

- For all HVAC projects, the building must have at least *one of the following*:
 - An audit that confirms the building is properly weatherized and insulated
 - Documentation that the building has been properly weatherized and insulated within the last five years
 - An audit stating that the building cannot be further insulated without major renovation
 - Attic spaces in these buildings, however, often can be insulated without major renovation and documentation must be shown that these spaces have been weatherized and insulated.

Some Details...

- **Interior LED must be either:**
 - 1) whole fixture replacements of existing lamps and ballasts,
 - 2) retrofit kits with internal drivers,
 - or 3) Type C TLED lamp replacements only
 - Re-lamping alone using an existing ballast will not be considered



Barkits OK

Vehicle Efficiency Measures

- Idle-reduction technologies
- Hybrid add-on/retrofits
- Hybrid “exempt” vehicles
- Plug-in hybrid vehicles
- Battery-electric vehicles
- Charging stations - publicly accessible dual-port Level 2 charging stations



2020 Ford Interceptor Hybrid



Hybrid vehicles - Funding for hybrid vehicles to replace “exempt” vehicles in the municipal fleet

Poll Question #2

Does your municipality currently have a battery-electric or plug-in hybrid vehicle in its fleet?

Yes

No, but we're thinking about it

No

Not sure

Tips for a Successful Project

- For heat pump/VRF projects
 - Applicants are strongly encouraged to work with designers and installers registered with the Massachusetts Clean Energy Center found at <https://www.masscec.com/finding-commercial-designer-and-installer>



More Tips...

- Applicants are encouraged to seek qualified, independent project managers or clerk of the works to coordinate the day-to-day activities.
 - Grant administration funds can be used for this purpose
- EMS/BMS systems: Insist on personnel training (grant app requires staff identified for training)



Tips for a Successful Application

- Include all the required information
 - Include other initiatives municipality funding
- Verify utility incentives
- EMS project descriptions should include energy savings strategies to be employed with new system
- Weatherization first – then upgrade HVAC equipment
- Bidding out projects over \$100k
- Discuss with your Regional Coordinator

Evaluation Criteria

- Energy impacts, including reductions in energy consumption and greenhouse gas emissions
- Effective use of funds as determined by MMBTU savings achieved and/or emissions reduced per DOER dollar invested
- Shovel readiness, including viability, and appropriateness of project
- Matching funds will be factored into the evaluation
- Applicants that have forfeited grant funded projects in order to close-out grants to be eligible for 2020 Competitive Grant will be not be as competitive

Non-Qualified Projects

- Program admin costs exceeding 10% of grant or \$10,000
- Solar PV
- Revolving loan funds
- Feasibility studies or assessments
- Air or water-source heat pumps for space cooling only
- Projects for buildings/facilities not included in the municipality's baseline and therefore not in the municipality's Energy Reduction Plan
 - except upon accomplishment of the twenty percent (20%) percent energy reduction goal, as approved by the DOER

Application Logistics

- Must use DOER's *online application portal*
 - Not CommBuys
- Follow instructions
- Only apply for \$200k/\$100k
 - Contact Regional Coordinator for \$750k Club status
- Use CommBuys Q&A function for grant-related questions

Confirmation of Submittal

Make sure you receive a confirmation of submittal

← → ↺ massdoer.imeetcentral.com/gc-grantapplication/doc/WzlsMjk2MjMwMDRd/w-SubmissionConfirmation 🔍 ☆ 🌐 J ⋮

DOER Search for Workspaces and Files Create ▾ Joanne Bissetta ▾

Dashboard Workspaces ▾


Competitive Grant ... Home Instructions Grant Application Form

Share ▾ Options

Pages

- Competitive Grant Application
 - ▶ Instructions--Read First
 - Ready--Grant Application Form
 - **Submission Confirmation**

Submission Confirmation Last edited by Jane Pfister 56min ago




GREEN COMMUNITIES
Massachusetts
DEPARTMENT OF ENERGY RESOURCES

**Your Competitive Grant Application
has been submitted to the Green Communities Division**

The information you provided and the files you selected have been saved in the system.

You will likely receive an email from DOER soon after submission but no later than 2 business days confirming your Grant submission and the number of files uploaded. If you do not receive an email confirmation in 2 business days, please contact Jane Pfister, jane.pfister@mass.gov / 617-626-1194). Thank you.

Tags:

 Download all attachments  Like this Shawn Luz, Elijah Romulus, Eric Smith and 12 others like this.

Version History (9)

Thank you!

Questions??



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