Helping Massachusetts Municipalities Create a Cleaner Energy Future

#### **COMMONWEALTH OF MASSACHUSETTS**

Charles Baker, Governor Kathleen Theoharides, Secretary Patrick Woodcock, Commissioner

### **Overview of 2021 Competitive Grants**

Brian Sullivan – Director, Green Communities Division Joanne Bissetta- Deputy Director, Green Communities Division Mark Rabinsky – Western Regional Coordinator

Green Communities Division Webinar

February 11, 2021



#### **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 <u>www.mass.gov/orgs/green-communities-division</u>
- Email updates via e-blasts Sign up by sending an email to: join-enegreencommunities@listserv.state.ma.us





#### **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 617-823-4588 - cell



NERO – WILMINGTON: Neal Duffy Neal.Duffy@mass.gov 978-694-3315 857-276-8654 - cell



CERO – WORCESTER: Kelly Brown Kelly.Brown@mass.gov 508-767-2703 617-780-8144 - cell



SERO – LAKEVILLE: Lisa Sullivan Lisa.M.Sullivan@mass.gov 508-946-2822 617-312-4018 - cell





# **Upcoming Webinars**



- March 11:
   "Opportunities to Reduce Vehicular Emissions"
- April 15:
  - "Working with Utilities' New Construction Programs"





### **Recording & Presentation**

- The webinar is being recorded and will be available on our website in approximately 48 hours at: <u>www.mass.gov/orgs/green-communities-</u> <u>division-massdoer</u>
- 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





## **Poll Question #1**

We would like to get a sense of our audience today. Please indicate the option that best reflects your role:

- Municipal/school staff
- Elected official
- Energy efficiency contractor/consultant
- Utility representative
- Volunteer/Other





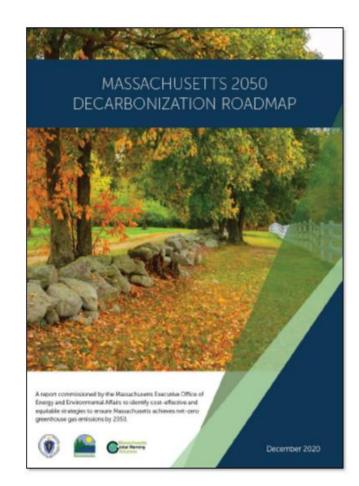
#### **Today's Presentation**

- State climate and energy policy
- Description of new and revised components
- Grant schedule
- Overview of eligible projects
- Application evaluation
- Q and A





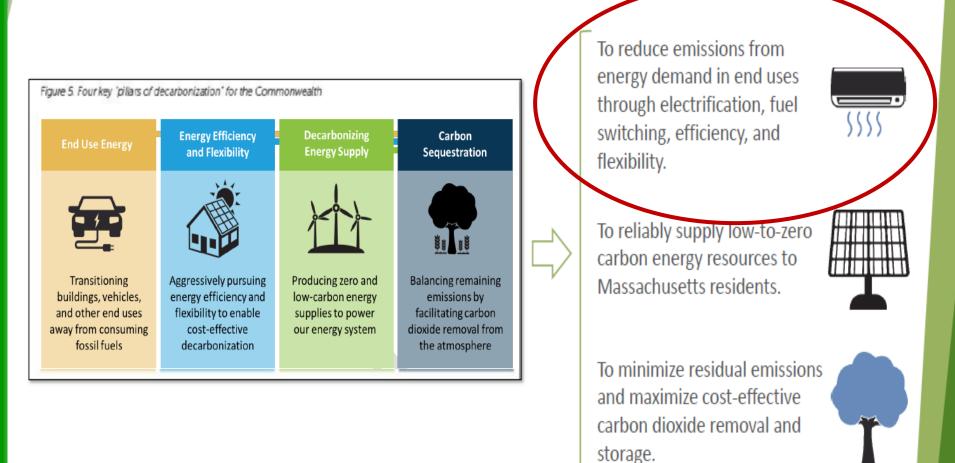
#### **State Policy Goals**



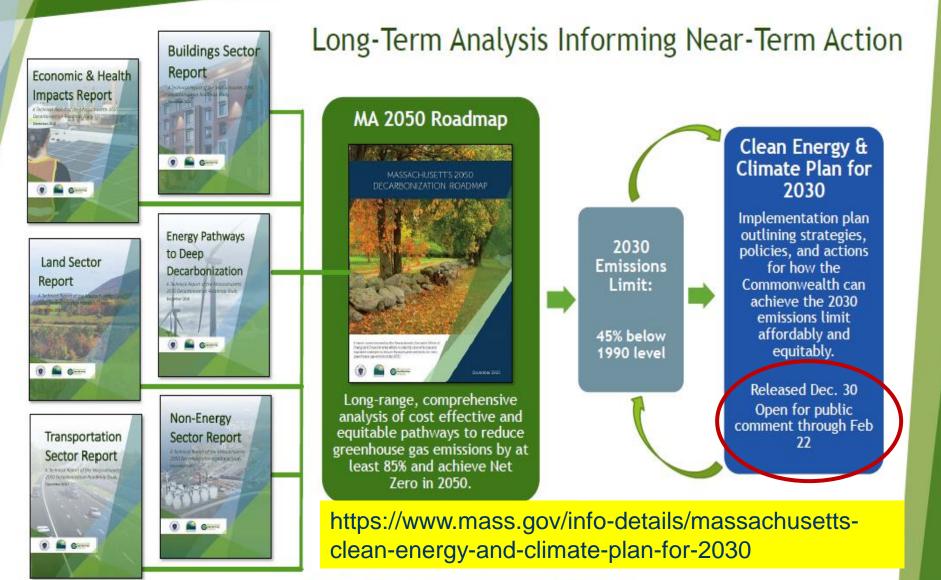
- Two Year Research Effort
- Comprehensive Understanding of 30-year Transition to Net Zero
- Focused on Implementation
- Inform Near-Term Decision-Making
- Results Published Dec. 30, 2020

#### Strategies to Achieve Net Zero

4 key components of deep decarbonization guided development of implementation strategies:



### **Clean Energy & Climate Plan 2030**



### Fall 2020 Request For Information

- Topic 1 Two open periods to accept grants
- Topic 2 Address under-performance
- Topic 3 Regional School Districts
- Topic 4 Ch.25A Sec. 14 procurement
- Topic 5 LED lighting projects
- Topic 6 Incentives for high-performance





#### **RFI Recommendations/Next Steps**

- Two deadlines
- Prescriptive & custom grants
- Address underperformance with Progress Reviews
- Combine LED lighting with other more-intensive ECMs (balancing ROI)
- Determine "leadership tier" grant opptys





#### Two opportunities to submit applications

- Prescriptive projects = streamlined application requirements and evaluation
- Special Eligibility projects = expanded offerings
- Custom projects = support for larger, more complicated projects





#### **Grant Facts At-A-Glance**

- Only eligible Green Communities can apply
- Full or partial funding of clean energy projects at municipal/school facilities
- Two opportunities to submit applications
  - Block 1 deadline is 5 pm, April 9
  - Block 2 deadline is 5 pm, October 8
- Applications accepted online only via DOER's grant portal
- Max award \$200k/\$100k
  - Custom grant exception





#### \$750k Club (max award \$100k)

Acton Acushnet Amesbury Andover Arlington Auburn Bedford Beverly **Bridgewater Brookline** Cambridge Chelmsford Framingham Gloucester

Hanover Hopkinton Kingston Lexington Littleton Lowell Maynard Medford Medway **Melrose** Millbury Milton Natick Newburyport

Newton Northampton Salem **Scituate** Somerville Sudbury Swampscott Tewksbury Wenham Westford Westwood Weymouth Winchester Woburn



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

DEPARTMENT OF ENERGY RESOURCES

#### Facts con't

- 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





# **Eligibility**

Must be a Green Community "in good standing"

- Submitted FY 2020 Annual Report by Nov 6<sup>th</sup> deadline and addressed outstanding issues by Feb 12 (Block 1); April 30 (Block 2)
- Demonstrates still meet "5 Criteria"
- No violations last 3 years for "Specially-Eligible"

✓ Previous grants expended and closed out

- <u>Block 1:</u> Final Grant Report due 5 pm, Feb.12 and addressed outstanding issues by March 19
- <u>Block 2:</u> Final Grant Report due 5 pm, Sept. 3 and addressed outstanding issues by Oct. 1





#### **Prescriptive Projects**

| Measure                              | Description   | Grant Funding<br>Methodology  | Required<br>Documentation  | Grant Funding<br>CAP   | Savings<br>Methodology (If<br>Applicable)  | Remarks / Notes  |
|--------------------------------------|---|---|--|--|--|--|
| VFD - 10HP or<br>less Motor          | Installation of<br>VFD for 3 phase<br>10HP or less<br>motors  | \$2,400 for up to 1HP and<br>then additional \$200/HP<br>above 1HP up to 10HP | (1) Quantity and<br>Horsepower for each<br>motor (2) Briefly<br>describe current<br>motor application -<br>example toilet<br>exhaust fan, hot<br>water recirc pump<br>etc. (3) Identify utility<br>incentives if available   | Maximum of<br>\$4,400 for 10HP<br>or not to exceed<br>total project cost,<br>including<br>incentives                                 | MA eTRM - Annual<br>Energy Savings<br>Factors for C&I VFDs<br>(kWh/HP). Demand<br>savings not required<br>to be calculated | Source for savings:<br>https://etrm.anbetrack.com<br>/#/workarea/trm/MADPU/C<br>OM-MAD-VFD/2019-<br>2021%20Plan%20TRM/versi<br>on/1?measureName=Motor<br>%20-<br>%20Variable%20Frequency<br>%20Drive |
| Walk-in<br>Refrigeration<br>Controls | Walk-in<br>refrigerator and<br>freezer<br>evaporator fan<br>EC Motor, fan<br>and compressor<br>controls | \$1,650 per evaporator<br>fan motor   | (1) Total number of<br>Walk-in refrigerator<br>and freezers along<br>with the number of<br>evaporator fans per<br>unit (2) Identify<br>utility incentives if<br>available  | Not to exceed<br>\$9,900 per walk-<br>in unit. Not to<br>exceed total<br>project cost,<br>including<br>incentives                    | 1,800 kWh per<br>evaporator fan<br>motor   | Includes funding for new EC<br>Motor, controls, electronic<br>defrost, anti-sweat door   |
| Weather-<br>stripping                | Door and<br>window<br>weather-<br>stripping   | Up to \$24 per linear feet  | <ul> <li>(1) Total number of<br/>single and double<br/>doors (2) Number of<br/>operable windows<br/>with approximate<br/>size per window OR<br/>total linear feet of<br/>window openings<br/>proposed for<br/>weather-stripping (3)<br/>Identify utility<br/>incentives if<br/>available.</li> </ul> | Not to exceed<br>\$24,000 per<br>facility (1,000<br>linear feet). Not<br>to exceed total<br>project cost,<br>including<br>incentives | Vendor provided<br>energy savings are<br>acceptable  | Excludes attic and wall<br>insulation projects. Energy<br>cost savings estimated to be<br>approximately \$2.40 per<br>linear feet of weather-<br>stripping installed                                 |

#### **Prescriptive Projects**

| Prescriptive<br>Measure                  | Description   | Grant Funding<br>Methodology   | Required Documentation  | Grant Funding<br>CAP                               | Savings Methodology (If Applicable)   |
|--|---|--|---|--|---|
| Building<br>Operator<br>Certification    | Building<br>operator<br>certification for<br>a member of<br>town facilities<br>maintenance<br>department  | \$2,180 for one employee,<br>\$4,060 total for two<br>employees, and \$5,940 for<br>three employees max. If<br>requesting training for three<br>(3) personnel, one must be<br>on school facilities staff | Identify the position/duties<br>of the employees being<br>selected for BOC. Provide a<br>narrative that specifies how<br>the training will enhance and<br>facilitate existing and<br>proposed new energy<br>conservation measures                       | Not to exceed<br>the total cost                    | Town to calculate 1% of total annual<br>building energy consumption in annual<br>energy and cost savings from BOC                                     |
| Hybrid and<br>Plug-in Hybrid<br>Vehicles | Purchase or<br>lease to replace<br>'exempt' gas or<br>diesel vehicles<br>or SUVs<br>(hybrid) or gas<br>or diesel<br>vehicles (plug-<br>in hybrid) in the<br>municipal fleet | Maximum \$5,000 towards<br>purchase OR maximum of<br>\$3,000 towards lease per<br>vehicle<br>Specially eligible<br>communities maximum is<br>\$10,000 (purchase) and<br>\$6,000 (lease)                  | Provide type and model of<br>vehicle being replaced, its<br>average annual mileage and<br>fuel costs, as well as the<br>make/model of the proposed<br>vehicle, and the mpg for both<br>vehicles.<br>See <u>VEH 98</u> for the state<br>vehicle contract | Not to exceed<br>vehicle<br>purchase/lease<br>cost | Town can use their own calculations or<br>refer to any one of the following sites:<br><u>https://www.fueleconomy.gov/feg/sav</u><br>oney.jsp'_ and/or |
| Battery<br>Electric<br>Vehicle           | Purchase or<br>lease to replace<br>gas or diesel-<br>powered<br>vehicles in a<br>municipal fleet  | Maximum \$7,500 towards<br>purchase OR maximum of<br>\$5,000 towards lease per<br>electric vehicle<br>Specially eligible maximum<br>is \$15,000 (purchase) and<br>\$10,000 (lease)                       |   |  | https://afdc.energy.gov/calc/   |
| EV Charging<br>Station                   | Installation of<br>publicly<br>accessible Type<br>2 dual head EV<br>charging station  | Maximum of \$7,500 per<br>charging station   | Location and type of charging<br>station.<br>See <u>VEH 102</u> for state<br>contract with EV charging<br>stations  | Not to exceed<br>implementation<br>cost            | N/A   |

# **Special Eligibility**

 Additional projects - Applicants that are a Green Community in good standing for six (6) or more years AND have also achieved and maintained a minimum of fifteen percent (15%) energy reduction of their Energy Reduction Plan target for three (3) or more years are eligible to apply for additional qualified projects





## **Additional Projects – Special Eligibility**

#### • Double the maximum award amounts

 for hybrid and battery-electric vehicles as indicated in Section 2 – *Prescriptive Projects*

#### Behavior-based energy efficiency programs

 that focus on energy savings resulting from changes in individual or organizational behavior and decision-making, such as programs that employ goal setting, rewards, and other tactics to encourage efficient energy use.

#### Community outreach programs

 to promote existing residential and/or commercial energy efficiency programs, such as MassSave, including supplemental grant programs; and/or to promote other clean energy initiatives such as community-shared solar, Solarize, or HeatSmart

#### • Energy efficiency projects

 at a facility not included in the municipality's baseline but in a district associated with the municipality, such as a regional school district, a water district, or a wastewater district.





# **Custom Projects**

Municipalities considering applying for custom projects are *highly encouraged* to contact their Regional Coordinator to discuss potential proposals with DOER staff

#### **Planning/design grants**

- Up to \$25K for support to perform engineering studies and/or design services
- Municipalities applying for custom project engineering grants ARE eligible to apply for other projects in this PON

#### **Implementation grants**

- \$500K cap
- At least 10% local match
- Up to 3 years to complete
- Cannot apply for other projects in PON





#### Custom Projects (the fine print)

- Grant awards in this category are highly competitive and will be limited
- Funding of pre-implementation support does not guarantee approval of project implementation funding
- Custom project implementation awardees under this PON will be ineligible to apply for competitive grants for two (2) years subsequent to award





# **Weatherization Requirement**

- For new 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



Remember!



## **Interior LED must be either:**

- 1) whole fixture replacements of existing lamps and ballasts,
- 2) retrofit kits with internal drivers for non-linear and specialty lighting fixtures, or 3) Type C TLED lamp replacements with compatible external LED drivers



**Barkits OK** 



Remember!



# **Vehicle Efficiency Measures**



Remember!

- 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





#### **2021 Ford Interceptor Hybrid**



#### Hybrid vehicles - Funding for hybrid vehicles to replace "exempt" vehicles in the municipal fleet





#### **Poll Question #2**

Which Grant Round is your city/town likely to submit an application?

Spring – April 9 Fall – Oct. 8 Not applying in 2021 Not sure





# **Revised Grant Workbook**

- Two worksheets to complete
  - <u>Community Information & Summary</u> input municipal information and energy prices per unit
  - Automatically calculates summary of funding request and project savings
  - <u>Grant table</u> input project information and grant request
- Applications must use this format
  - DOER reserves the right to reject applications that don't





#### Green Communities Competitve Grant - 2021

#### Applicant Information

| Municipality Name:                         | Ames            |
|--|-----------------|
| Contact Name:                              | Jane Doe        |
| Contact Title:                             | Town planner    |
| Contact E-mail:                            | jdoe@amesma.gov |
| Contact Phone:                             | 781-555-1234    |
| Date of Application :                      | 4/8/2021        |
| Date of update (if update to application): |                 |

Energy Cost (\$) per Unit (enter your community's energy cost for each fuel unit -

| leave blank if the fuel is not relevant to the application) |      |
|---|------|
| Electricity (kWh)   | 0.20 |
| Natural Gas (therms)  | 0.70 |
| Oil Savings (gallons)                                       | 2.00 |
| Gasoline (gallons)  | 2.25 |
| Diesel (gallons)  | 2.35 |
| Propane (gallons)   | 2.50 |

#### Application Summary (cells will calculate basesd on data on next tab)

|  | -   |
|--|-----|
| Green Communites Funding Requested     | \$- |
| Projected Annual Cost Savings (\$)     | \$- |
| MMBTU per Year                         | •   |
| Simple GC\$ Payback Period             | •   |
| BTU saved per GC dollar (all projects) | -   |
| GHG emissions (tons CO2) saved per yea | -   |
|  |     |

#### **New Grant Table**

|                               |  |  |                                     | Pro                                       | ject Annual                     | Energy Savi                          | ngs |                         |   | Pro                      | oject Cost Info            | ormation           |                                   |  |  | Reference and Su            | pporting Information                                  | on  |  |                       |                            | Data Sumn      | nary               |   |
|-------------------------------|--|--|-------------------------------------|---|---------------------------------|--------------------------------------|-----|-------------------------|---|--------------------------|----------------------------|--------------------|-----------------------------------|--|--|-----------------------------|---|---|--|-----------------------|----------------------------|----------------|--------------------|---|
| Building Name and/or Location | aditional, Administrative,<br>OR Prescriptive Project<br>(select from dropdown list) | Projected<br>Completion<br>(month/year)<br>[2] | Electricity<br>(kWh) <sup>[3]</sup> | Natural<br>Gas<br>(therms) <sup>[3]</sup> | Oil<br>(gallons) <sup>[3]</sup> | Gasoline<br>(gallons) <sup>[3]</sup> |     | Propane<br>(gallons)[3] | Total Project<br>Cost (\$) <sup>[4]</sup> | GC Grant<br>Funding (\$) | Utility<br>Incentives (\$) | (alaona Est an rea | Community<br>Contribution<br>(\$) | Funding Source(s)<br>for Other Grants and<br>Town Contribution | Source of<br>Community<br>Contribution<br>(f applicable) | Audit or Study<br>Reference | Audit or Study<br>Page<br>Reference(s) <sup>[9]</sup> | Other Supporting<br>Document(s) and Page<br>References <sup>[9]</sup> | Part of<br>Performance<br>Contract?<br>(yes or no) | Annual<br>Energy Cost | MMBTU<br>saved<br>per Year | Payback        | per GC dollar      | GHG emissions<br>(tons CO2)<br>saved per year |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  | -                          |                |                    | -   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            | -                  |                                   |  |  |                             |   |   |  | <u>\$</u> -           | -                          |                |                    | -   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  | -                          |                |                    |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            | -                  |                                   |  |  |                             |   |   |  | s -                   |                            |                |                    | -   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  |                            |                |                    |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  |                            |                |                    |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  | -                          | -              | -                  | -   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  |                            |                |                    |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  |                            |                |                    |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | \$ -                  |                            | -              |                    | -   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | ş -                   | -                          |                |                    |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | ə -<br>¢              | -                          |                |                    |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            | 1                  |                                   |  |  |                             |   |   |  | φ ·                   |                            |                |                    |   |
| Green Community:              |  |  | 0                                   | 0   | 0                               | 0                                    | 0   | 0                       | \$0.00                                    | \$0.00                   | \$0.00                     | \$0.00             | \$0.00                            | NA   | 1 1  | N/A                         | NA  | N/A   | N/A  | * 2020 Compe          | five Grant                 | median BTU sav | ed per dollar = 3, |   |
|                               |  |  |                                     |   |                                 |                                      |     |                         |   |                          |                            |                    |                                   |  |  |                             |   |   |  | 2020 001100           |                            |                | in par aska – Oj   |   |

- Same level of detail as previous years'
- Additional calculations and grant categories





| 2  |                                     |   |   |  |  | Project Annual Energy Savings       |   |                                 |                                      |                                    |                         |
|--|-------------------------------------|---|---|--|--|-------------------------------------|---|---------------------------------|--------------------------------------|------------------------------------|-------------------------|
| 3  | -                                   | e and/or Location   | Traditional, Administrative,<br>OR Prescriptive Project<br>(select from dropdown list)                      | Project Name<br>(description for Traditional<br>Projects) <sup>[1]</sup> | Projected<br>Completion<br>(month/year)<br>[2] | Electricity<br>(kWh) <sup>[3]</sup> | Natural<br>Gas<br>(therms) <sup>[3]</sup> | Oil<br>(gallons) <sup>[3]</sup> | Gasoline<br>(gallons) <sup>[3]</sup> | Diesel<br>(gallons) <sup>[3]</sup> | Propane<br>(gallons)[3] |
| 4  | Town Hall                           |   | Prescriptive: EV Charging Station   | -  | 12/2021  |                                     |   |                                 |                                      |                                    | İ                       |
| 5  | Fire Station                        |   | Traditional Energy Project  | Air Source Heat Pump   | 12/2021  |                                     |   |                                 |                                      |                                    | 1,786                   |
| 6  | Fire Station                        |   | Traditional Energy Project  | Insulation   | 12/2021  |                                     |   | 675                             |                                      |                                    |                         |
| 7  | High School                         |   | Traditional Energy Project  | LED Lighting   | 12/2021  | 140,206                             |   |                                 |                                      |                                    | -                       |
| 9  | Admin                               |   | Administrative Costs  | -  | 12/2021  |                                     |   |                                 |                                      |                                    |                         |
| 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | -                                   |   |   |  |  |                                     |   |                                 |                                      |                                    | -                       |
| 19   | Green Comm                          | inity:  |   |  |  | 0                                   | 0   | 0                               | 0                                    | 0                                  | 0                       |
| 20   |                                     |   |   |  |  |                                     |   |                                 |                                      |                                    |                         |
| 21   | Notes:                              |   |   |  |  |                                     |   |                                 |                                      |                                    |                         |
| 22   | comply with all<br>coordinator if y | requirements specifie<br>ou need additional ro                            | als for as many projects as it wishes a<br>d in the program opportunity notice. C<br>ws in the spreadsheet. | ontact your regional   |  |                                     |   |                                 |                                      |                                    |                         |
| 22   | [2] Proposed p                      | rojects snould be con   | npleted within approximately one year   | from contract execution.   |  |                                     |   |                                 |                                      |                                    |                         |
| 23   | complete the er                     | ate only the projecte<br>lergy costs per unit ta<br>gional coordinator. D |   |  |  |                                     |   |                                 |                                      |                                    |                         |
| 25   | [4] Total project                   | t cost = sum of all fund  | ding sources (columns M-P)  |  |  |                                     |   |                                 |                                      |                                    |                         |
| 26   | [5] Please prov<br>request and pro- |   | umber/range from the audit or study th  | at provides funding  |  |                                     |   |                                 |                                      |                                    |                         |
| 27   |                                     |   |   |  |  |                                     |   |                                 |                                      |                                    |                         |
| 28<br>29   |                                     |   |   |  |  |                                     |   |                                 |                                      |                                    |                         |
| 30   |                                     |   |   |  |  |                                     |   |                                 |                                      |                                    |                         |
| 31   |                                     |   |   |  |  |                                     |   |                                 |                                      |                                    |                         |
| 32   |                                     |   |   |  |  |                                     |   |                                 |                                      |                                    |                         |
|  | •                                   | Community Inf   | ormation & Summary Gra  | ant Table Example  | e Grant Tab                                    | le (                                | +)  |                                 |                                      | : •                                |                         |

# **Project cost info**

|   | Pro                           | oject Cost Info            | rmation  |                                   | Reference and Supporting Information                           |  |                             |   |   |  |  |  |
|---|-------------------------------|----------------------------|--|-----------------------------------|--|--|-----------------------------|---|---|--|--|--|
| Total Project<br>Cost (\$) <sup>[4]</sup> | GC Grant<br>Funding (\$)<br>⑸ | Utility<br>Incentives (\$) | Other Grants (\$)<br>(please list source<br>in column N) | Community<br>Contribution<br>(\$) | Funding Source(s)<br>for Other Grants and<br>Town Contribution | Source if<br>Community<br>Contribution | Audit or Study<br>Reference | Audit or Study<br>Page<br>Reference(s) <sup>[6]</sup> | Other Supporting<br>Document(s) and Page<br>References <sup>[6]</sup> |  |  |  |
| \$55,000.00                               | \$7,500.00                    | \$47,500.00                | \$0.00   | \$0.00                            | n/a  | N/A                                    | N/A                         | N/A   | Arres_Town_ERP.pdf  |  |  |  |
| \$34,700.00                               | \$32,000.00                   | \$1,200.00                 | \$0.00   | \$1,500.00                        | n/a  | General Fund                           | Ames_Town_Audit.pdf         | page 1  | Ames_Town_ERP.pdf   |  |  |  |
| \$28,400.00                               | \$15,000.00                   | \$8,400.00                 | \$0.00   | \$5,000.00                        | n/a  | General Fund                           | Ames_Town_Audit.pdf         | page 2  | Ames_Town_ERP.pdf   |  |  |  |
| \$106,200.00                              | \$75,000.00                   | \$25,000.00                | \$1,200.00   | \$5,000.00                        | US DOE   | General Fund                           | Ames_Town_Audit.pdf         | page 2  | Ames_Town_ERP.pdf   |  |  |  |
| \$2,000.00                                | \$2,000.00                    | \$0.00                     | \$0.00   | \$0.00                            | N/A  | N/A                                    | N/A                         | NA  | NA  |  |  |  |
|   |                               |                            |  |                                   |  |  |                             |   |   |  |  |  |
| \$226,300.00                              | \$131,500.00                  | \$82,100.00                | \$1,200.00   | \$11,500.00                       | N/A  |  | N/A                         | NA  | N/A   |  |  |  |
|   |                               |                            |  |                                   |  |  |                             |   |   |  |  |  |





Helping Massachusetts Municipalities Create A Greener Energy Future

#### **Summary**

|  |   |  | Data Summary |                                 |                   |                                  |                                 |   |  |  |  |  |
|--|---|--|--------------|---------------------------------|-------------------|----------------------------------|---------------------------------|---|--|--|--|--|
| Building Name and/or Location<br>(as noted in MEI) | Traditional, Administrative,<br>or Prescriptive Projects<br>(select from dropdown list) | <b>Project Name</b><br>(description for Traditional<br>Projects) | Annu         | jected<br>Ial Cost<br>Ings (\$) | MMBTU<br>per Year | Simple GC\$<br>Payback<br>Period | BTU saved<br>per GC dollar<br>* | GHG emission<br>(tons CO2)<br>saved per yea |  |  |  |  |
| Town Hall  | Prescriptive: EV Charging Station   | -  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
| Fire Station                                       | Traditional Energy Project  | Air Source Heat Pump   | \$ 4         | ,465.00                         | 162.5             | 7.17                             | 5,078.94                        | 11.3  |  |  |  |  |
| Fire Station                                       | Traditional Energy Project  | Insulation   | \$ 1         | ,350.00                         | 93.8              | 11.11                            | 6,255.00                        | 7.5   |  |  |  |  |
| High School  | Traditional Energy Project  | LED Lighting   | \$28         | 3,041.20                        | 478.4             | 2.67                             | 6,378.44                        | 50.4  |  |  |  |  |
| Admin  | Administrative Costs  | -  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
|  |   |  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
|  |   |  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
|  |   |  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
|  |   |  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
|  |   |  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
|  |   |  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
| (Insert new rows here)                             |   |  | \$           | -                               | -                 | -                                | -                               | -   |  |  |  |  |
| Green Community: Ames                              |   |  | * 202        | 0 Compe                         | titive Grant      | median BTU sa                    | ved per dollar = 3              | 3,747                                       |  |  |  |  |
|  |   |  |              |                                 |                   |                                  |                                 |   |  |  |  |  |





Helping Massachusetts Municipalities Create A Greener Energy Future

#### Green Communities Competitve Grant - 2021

#### Applicant Information

| Municipality Name:                         | Ames            |
|--|-----------------|
| Contact Name:                              | Jane Doe        |
| Contact Title:                             | Town planner    |
| Contact E-mail:                            | jdoe@amesma.gov |
| Contact Phone:                             | 781-555-1234    |
| Date of Application :                      | 4/8/2021        |
| Date of update (if update to application): |                 |

Energy Cost (\$) per Unit (enter your community's energy cost for each fuel unit -

| leave blank if the fuel is not relevant to the application) |      |
|---|------|
| Electricity (kWh)   | 0.20 |
| Natural Gas (therms)  | 0.70 |
| Oil Savings (gallons)                                       | 2.00 |
| Gasoline (gallons)  | 2.25 |
| Diesel (gallons)  | 2.35 |
| Propane (gallons)   | 2.50 |

## Application Summary (cells will calculate basesd on data on next tab) Green Communites Funding Requested Design that Appendix Appendix (%) 13

| Projected Annual Cost Savings (\$)     | 131,500.00      |             |
|--|-----------------|-------------|
| MMBTU per Year                         | \$<br>34,193.70 |             |
| Simple GC\$ Payback Period             | 734.73          |             |
| BTU saved per GC dollar (all projects) |                 |             |
| GHG emissions (tons CO2) saved per yea | 3.8             |             |
|  | 5,587           |             |
| Community Information & Summ           | 69.3            | Frant Table |
|  | 00.0            |             |

\$

## **Tips for a Successful Application**

- Include all the required information
  - DOER reserves the right to reject incomplete applications
- Verify utility incentives
- EMS project descriptions should include energy savings strategies to be employed
- Weatherization first then upgrade HVAC equipment
- Bidding out projects over \$100k
- Discuss with your Regional Coordinator





## 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



#### <u>EMS/BMS systems</u>: Insist on personnel training (grant app requires staff identified for training)





## **Evaluation Criteria**

- Energy impacts, including reductions in energy consumption and greenhouse gas emissions
- DOER will evaluate applications comprehensively, with *project costs and savings aggregated*
- Effective use of funds as determined by energy savings achieved per DOER dollar invested
  - For reference, a median of 3,747 BTUs were saved per grant \$ award in 2020
  - The Excel grant table will provide this calculation for applicants
- Shovel readiness, including viability, and appropriateness of project
- Matching funds will be factored into the evaluation





## **Non-Qualified Projects**

- Program admin costs exceeding 10% of grant or \$10,000
- Feasibility studies
- Solar PV
- Revolving loan funds
- 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 for specially eligible communities





# **Application Logistics**

- Must use DOER's online application portal
  - Not CommBuys
- Follow instructions
- Only apply for \$200k/\$100k (unless custom grant)
- Use CommBuys Q&A function for grantrelated questions





#### **Confirmation of Submittal**

#### Make sure you receive a confirmation of submittal

| ← → C 🔒 massdoer.imeetcentral.co   | m/gc-grantapplication/doc/WzIsMjk2MjMwMDRd/w-Submis  | ssionConfirmation 🔍 🛧 🥥 🛛 🚦                              |
|--|--|--|
|  | ch for Workspaces and Files  | Create 👻 🌓 Joanne Bissetta 👻 🌘                           |
| 🚯 Dashboard 🛛 🚺 Workspaces 🔻   |  |  |
| Competitive Grant Home In  | structions Grant Application Form  |  |
|  |  | Share - Options  |
| Pages  | Submission Confirmation  | Last edited by Jane Pfister 56min ago                    |
| <ul> <li>InstructionsRead First</li> <li>ReadyGrant Application Form</li> <li>Submission Confirmation</li> </ul> |  | e Grant Application<br>Green Communities Division        |
|  | The information you provided and the files you selected have been saved in the system.<br>You will likely receive an email from DOER soon after submission but no later than 2 business days confirming yo<br>Grant submission and the number of files uploaded. If you do not receive an email confirmation in 2 business<br>days, please contact Jane Pfister, jane.pfister@mass.gov / 617-626-1194). Thank you. |  |
|  | Tags:  |  |
|  | Like this Shawn  | Luz, Elijah Romulus, Eric Smith and 12 others like this. |



# Thank you!

# Questions??



