Maryland Energy
ADMINISTRATION
Powering Maryland's Future

2013 EmPOWER Clean Energy Communities

Low-to-Moderate Income Grant Program

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Maryland Energy Administration

August 29, 2012

September 6, 2012

September 11, 2012

Agenda

- **Overview of Grant Program**
- **Grant Documents**
- **Q & A**

2013 Grant Program

- FY 2013 funding: **$2.575 million**

- Grant funds have been allocated on a county-by-county basis, based on the number of low-to-moderate income households in each county.

- For organizations interested in applying for grants in multiple counties, a separate grant application must be submitted for each county.

County Allocations-FY 2013

County	*Allocation*	*County*	*Allocation*
Allegany	$43,500	Harford	$86,500
Anne Arundel	$173,500	Howard	$72,000
Baltimore City	$368,500	Kent	$30,000
Baltimore County	$366,000	Montgomery	$371,000
Calvert	$33,000	Prince George's	$407,000
Caroline	$30,000	Queen Anne's	$30,000
Carroll	$54,000	St. Mary's	$43,500
Cecil	$41,000	Somerset	$30,000
Charles	$55,500	Talbot	$30,000
Dorchester	$30,000	Washington	$71,000
Frederick	$101,000	Wicomico	$48,000
Garrett	$30,000	Worcester	$30,000

Grant Timing

- Application deadline: Wednesday, October 17, 2012
- Grant Agreements available for signature: By the end of January 2013. Some agreements may be available for signature before this date.
- Grant Execution Period: January 2013 - August 31, 2013
- Invoicing Deadline: September 30, 2013

Eligible Applicants

- Local governments
- Incorporated non-profit organizations
- Homeowners Associations[1]
- Condominium Associations[2]

1 Homeowners Associations as defined by Title 11B of the Real Property Article, Code of Maryland

2 Condominium Associations as defined by Title 11 of the Real Property Article, Code of Maryland

Grant Requirements

Requirements:

- Energy efficiency
- Benefit low-to-moderate income Marylanders
  - Low and moderate income households are defined as households with total household income that are less than 60% and 85% respectively of median income for each Maryland County.

http://www.dhcd.maryland.gov/Website/Programs/PRHP/Documents/2010IncomeandPriceLimits.pdf

Grant Evaluation Criteria

MEA will complete evaluations on a county-by-county basis using the following criteria:

Primary Criteria:

1. Annual Energy Savings per $ of MEA investment
2. Impact on Maryland's low-to-moderate income residents over a fifteen year period (New for FY13)
   - 15 years is the anticipated life of many energy measures.

3. Applicant's willingness and ability to deliver energy upgrades to households that are not eligible for assistance through other programs. (New)

Grant Evaluation Criteria

How should the number of residents that will benefit over 15 years be calculated?

- Scenario #1: Residential, privately owned home with 4 residents. The homeowners are assumed to stay in the home for 15 years.

  # of residents benefitting over 15 years: 4 residents (or 1 household)

- Scenario #2: A rental home owned by a non-profit. The home houses up to 4 people. On average, each household normally stays in the home for 3 years.

  # of residents benefitting over 15 years:

  [(4 people/household)*(15 years/residents change every 3 years) = 4*(15/3) =

  20 residents (or five households)

- Scenario #3: A homeless shelter is able to house 5 individuals with most people staying approximately one year.

  # of residents benefitting over 15 years:

  [(5 people/shelter)*(15 years/residents change every 1 year) = 5*(15/1)

  75 residents

Grant Evaluation Criteria

Secondary Criteria:

1. The ability of the project to be completed and invoices submitted within the stated grant period of performance.
2. Applicant's past performance complying with grant program requirements (if applicable).
   - Status reports turned in monthly with the required energy metrics.
   - Project finished during the given grant timeline.
3. Location, as related to projects occurring within the State's Priority Funding Areas.

State of Maryland
Priority Funding Areas

- Priority Funding Areas are locations where the State and local governments want to target their efforts to encourage and support economic development and new growth.
- The following areas qualify as Priority Funding Areas:
  - every municipality, as they existed in 1997;
  - areas inside the Washington Beltway and the Baltimore Beltway; and
  - areas already designated as enterprise zones, neighborhood revitalization areas, heritage areas and existing industrial land.
- Priority Funding Areas can be looked up on the Maryland Department of Planning website at http://www.mdp.state.md.us/OurWork/PFAIMap.shtml.

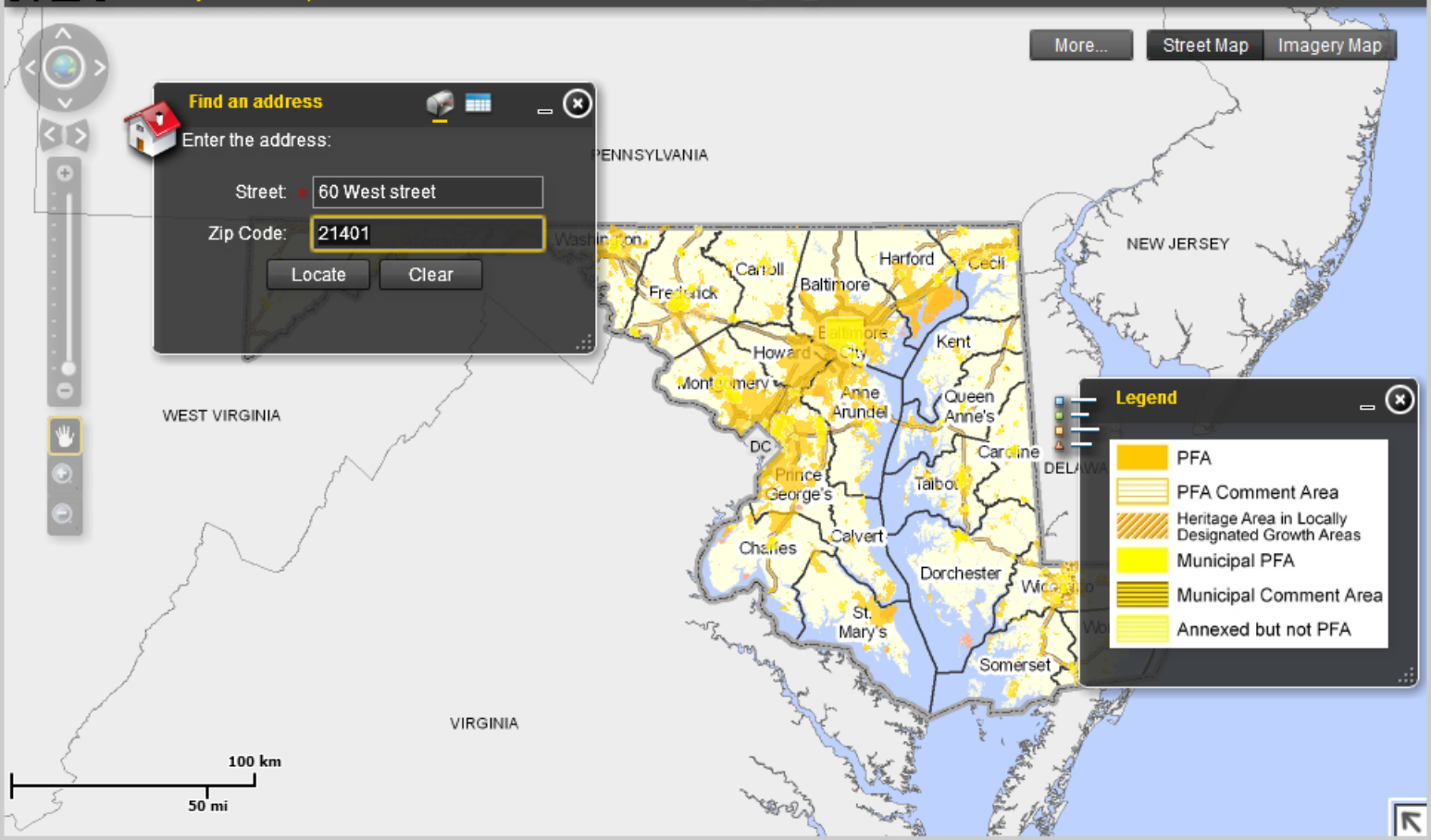
MARYLAND DEPARTMENT OF PLANNING

MDP Maryland Priority Funding Areas
One Maryland One Map

About Priority Funding Areas

More... Street Map Imagery Map

Find an address
Enter the address:
Street: 60 West street
Zip Code: 21401
Locate Clear



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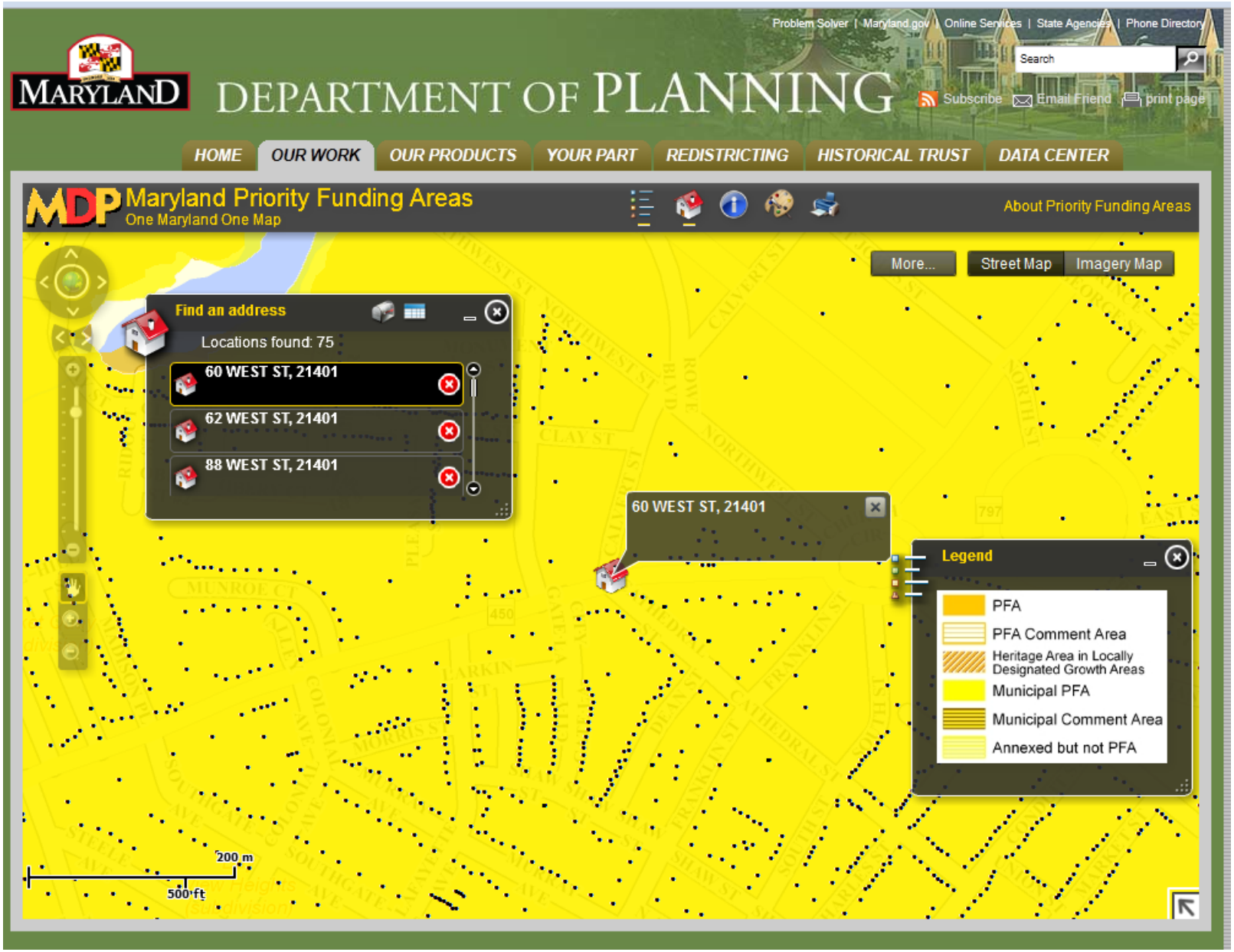
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YOUR PART
REDISTRICTING
HISTORICAL TRUST
DATA CENTER
MDP Maryland Priority Funding Areas
One Maryland One Map
About Priority Funding Areas
More...
Street Map
Imagery Map
Find an address
Locations found: 75
60 WEST ST, 21401
62 WEST ST, 21401
88 WEST ST, 21401
60 WEST ST, 21401
Legend
PFA
PFA Comment Area
Heritage Area in Locally Designated Growth Areas
Municipal PFA
Municipal Comment Area
Annexed but not PFA
200 m
500 ft

Eligible Use of Grant Funds

- Primarily for the purchase and installation of energy efficient equipment.
- A limited amount of funds can be used to pay for technical assessments, licenses, and engineering.
- Grant funds need to be used in a way that clearly benefits low-to-moderate income Marylanders.

Grant Restrictions

- The State of Maryland has adopted the 2012 International Energy Efficiency Code (IECC). All projects funded through the EmPOWER Clean Energy Communities program should comply with the 2012 IECC Code. (New)
  - Higher insulation levels: Zone 4 now requires R49 for ceilings (previously R38)
  - HVAC: Manual J calculation

Grant Restrictions

- Home Energy Retrofits
  - In homes where HVAC upgrades are not occurring, home retrofits are capped at a maximum of $5,000 per home.
  - In home retrofits where a HVAC upgrade is deemed necessary, the retrofit is capped at a maximum of $8,000 per home.
  - MEA encourages the use of the Home Performance with ENERGY STAR program for home retrofits. Home Performance with ENERGY STAR contractors can be found at http://www.mdhomeperformance.org/.

Grant Restrictions

- New home construction projects: MEA will only fund the incremental costs of upgrading to a higher level of efficiency.
  - For example, MEA will pay for the costs of upgrading from a baseline efficiency heat pump (SEER 13) to a higher efficiency heat pump (SEER 15).
  - [Cost of the SEER 15 heat pump]- [Cost of the baseline SEER 13 heat pump] = [MEA funding]

Grant Restrictions

- Appliance (including HVAC) replacements:
  - All appliances purchased through the grant program must be ENERGY STAR qualified. If an ENERGY STAR version is not available, MEA will not fund the appliance replacement (i.e. clothes dryers, ovens, and microwaves).

- Refrigerators: If any refrigerator is replaced using EmPOWER Clean Energy Communities grant funding, the maximum reimbursement amount is $800 per ENERGY STAR qualified refrigerator. (New)

Grant Restrictions

- Water Heaters
  - ENERGY STAR no longer qualifies electric tank water heaters and electric instantaneous (on demand) water heaters. For this reason, MEA will no longer fund electric tank water heater or electric instantaneous water heater replacements. ENERGY STAR qualified heat pump water heaters and natural gas water heater replacements are still eligible for grant funding.
- Renewable energy technologies
  - Renewable energy technologies such as solar hot water, solar photovoltaic, and wind are not eligible for EmPOWER Clean Energy Communities low-to-moderate income energy efficient grant funds

Grant Restrictions

- Fuel Switching
  - In general, MEA does not normally approve projects that involve fuel switching.
    - Example: replacing a heat pump with a natural gas furnace

Grant Restrictions

- Low income residents
  - Low income residents can't be charged for participation in programs receiving EmPOWER Clean Energy Community grant awards.
- Moderate income homeowners
  - For all moderate income homeowners participating in this program, MEA is asking that homeowners contribute at least 10% of the total project cost. (New)
  - Moderate income is defined to be 60% to 85% of area median income (AMI).
  - AMI income limits for Maryland can be obtained at http://www.dhcd.maryland.gov/website/programs/PRHP/Documents/2012_MD_Income_Limits.pdf.

Grant Restrictions

- Local Weatherization Agencies
  - For any local weatherization agency (LWA) applying for funding, MEA encourages LWAs to focus on households that are ineligible for assistance through the Weatherization Assistance Program (WAP) or the EmPOWER Maryland Low Income Energy Efficiency Program (LIEEP) programs operated by the Department of Housing and Community Development. (New)

Funding From Other Sources

- While matching funds are not required, Grantees are encouraged to make a contribution or to leverage non-MEA funding in order to maximize the amount of energy savings achieved through the project. Matching funds can include:
  - Cash
  - In-kind services
  - Equipment, labor, or materials

- The EmPOWER Maryland programs operated by the five largest Maryland electrical utilities are one possible source of leveraged funding.

Funding From Other Sources

- BGE: http://www.bgesmartenergy.com/
- Delmarva Power: http://www.delmarva.com/energy/conservation/mdinformation/
- Pepco: http://www.pepco.com/energy/conservation/meiin/
- Potomac Edison (formerly Allegheny Power): https://www.firstenergycorp.com/content/customer/save_energy/save_energy_maryland.html
- SMECO: http://www.smeco.coop/save/

Administrative Costs

- Administrative costs for non-energy related expenses are allowed but must not exceed 10% of the grant award.

- If you plan on requesting administrative costs, a breakdown of the administrative costs must be included with the project proposal.

Health & Safety Repairs

- For projects involving whole home energy retrofits, non-energy related health and safety repairs are capped at $500 per home.

Maryland Historical Trust Review

- Grant recipients will be required to provide MEA with documentation from the Maryland Historical Trust, or other qualified historian, showing that the proposed project will have “no adverse effect” on historic properties.
  - MEA currently has a contractual in-house historian who can help with the majority of the historical reviews.
  - In the future, these reviews may have to go directly to the Maryland Historical Trust.

Grant Documents

- Application
  - Calculator for estimating energy savings
- Grant Agreement
- Reporting
- Invoicing

Grant Application

- The grant application is provided in WORD format.

- If you are submitting a grant application electronically, please be sure to submit the application in a WORD 1997-2003 format or in PDF form.

- File size: Please try to keep electronic files being submitted to MEA less than 10 MB in size.

Grant Application

- Annual Energy Savings (Question #26)
  - All grantees should leverage the DOE energy savings calculator (whenever possible) to provide an “apples-to-apples” estimate of anticipated potential energy savings.
  - If an applicant has access to other methods of calculating anticipated energy savings, this information can be included in Question 26 as well.

DOE Energy Savings Calculator

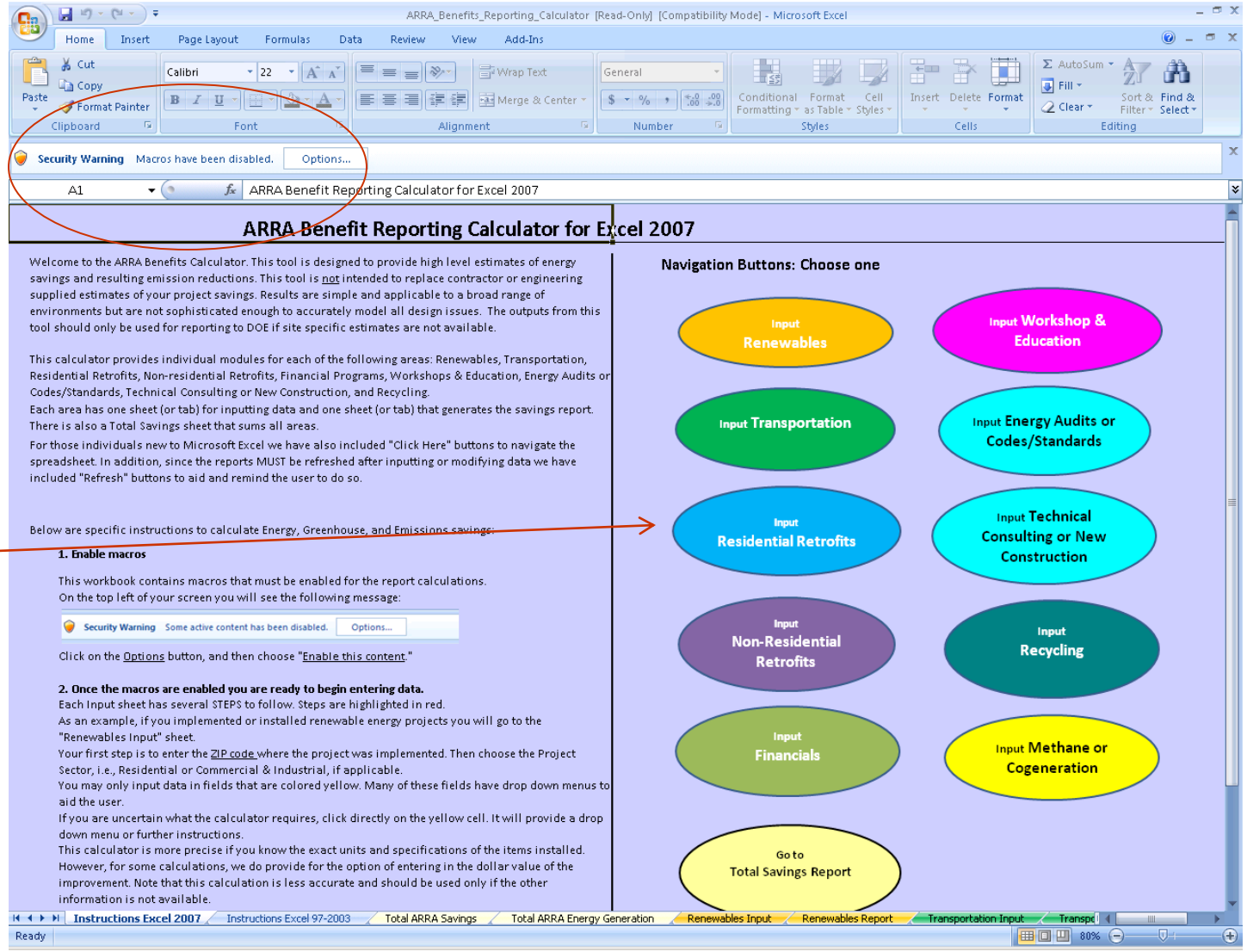
- The DOE Energy Savings Calculator can be downloaded from MEA's website at http://www.energy.state.md.us/documents/ARRA_Benefits_Reporting_Calculator.xls.

- Directions on how to use the calculator can also be found on MEA's website at http://www.energy.state.md.us/Govt/documents/ARRACalculatorDirections.pdf.

- Wherever possible, please enter the anticipated number of measures (rather than $ value) into the ARRA calculator.
  - CFL example: Under "Number of Units" enter "50" (instead of "$100" under "Dollars spent").

To use the calculator, you will need to first enable the Macros.

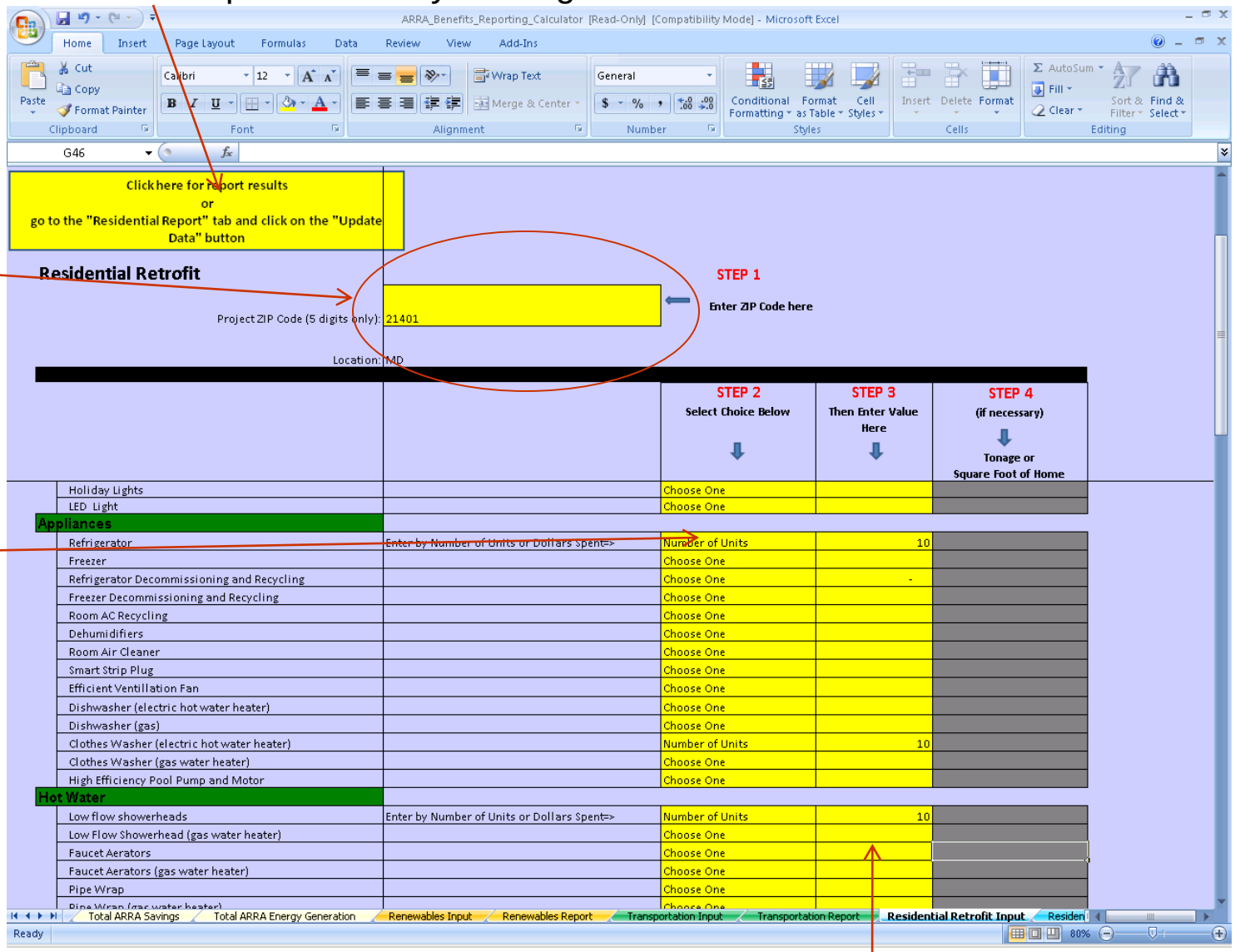
Then select the residential retrofit navigation button (on the right) or tab (bottom of the page, the residential retrofit tab is currently hidden).



Step 1:
Enter zip code. If there are multiple zip codes, enter the most common or centralized zip code.

Step 2: Under the column titled "Step 2", click the box labeled "Choose One". A drop down will occur. Whenever possible, please use the "number of units" option rather than the "dollars spent" option.

Step 4:
Generate report results by clicking this button.



Step 3:
Enter the number of units for each measure that you expect to install using your grant funds.

ARRA_Benefits_Reporting_Calculator [Read-Only] [Compatibility Mode] - Microsoft Excel

I'm finished entering data. Refresh report values by clicking here.

Return to Residential Input

Annual ARRA Energy Savings
Residential Retrofits
for ZIP Code 21401

	Energy Savings			Greenhouse Gases (CO_2E)	Criteria Pollutants
	MWH	MMCF	Fuel Oil Gallons	Metric Tonnes	Metric Tonnes
Holiday Lights					
LED Light					
Lighting Total					
Appliances					
Refrigerator	1.3711			0.7111	0.0064
Freezer					
Refrigerator Decommissioning and Recycling					
Freezer Decommissioning and Recycling					
Room AC Recycling					
Dehumidifiers					
Room Air Cleaner					
Smart Strip Plug					
Efficient Ventillation Fan					
Dishwasher (electric hot water heater)					
Dishwasher (gas)					
Clothes Washer (electric hot water heater)	2.2258			1.1544	0.0104
Clothes Washer (gas water heater)					
High Efficiency Pool Pump and Motor					
Appliances Total	3.5968			1.8655	0.0168
Hot Water					
Low flow showerheads	3.5020			1.8163	0.0163
Low Flow Showerhead (gas water heater)					
Faucet Aerators					
Faucet Aerators (gas water heater)					
Pipe Wrap					
Pipe Wrap (gas water heater)					
Water Heater Blanket					
Water Heater Blanket (gas water heater)					
Electric Water Heater					
Heat Pump Water Heater					
Water Heater (gas water heater)					

MetricTCo2E
Row: Appliances - Dehumidifiers
Column: MetricTCo2E

The report will provide energy savings in MWH for each energy measure.

10 refrigerators yield 1.3711 MWH/annually in energy savings

Total ARRA Energy Generation | Renewables Input | Renewables Report | Transportation Input | Transportation Report | Residential Retrofit Input | Residential Report | Non-Res

Ready

Grant Agreement

- For applicants selected to receive grant awards, your organization will be required to enter into a grant agreement with MEA.
- Grant agreements are negotiated between MEA and the grant applicant. Applications may not be funded exactly as written.
  - Grant $ amount
  - Fundable measures

Grant Invoicing

- All grant funds will be distributed through a reimbursement process. <u>No grant funds will be distributed in advance.</u>
- To receive reimbursement, grantees must submit:
  - An invoice on grantee letterhead with the grantee's federal tax identification number
  - Supporting documentation justifying the reimbursement request.
    - Receipts
    - Invoices
    - Time records

Grant Reporting

- A draft of the 2013 grant reporting form is posted on MEA's website at http://www.energy.state.md.us/Govt/documents/DraftAttachmentB_MonthlyreportingformFY13.docx.

- Grantees will be required to submit a grant report each month. Monthly grant reports are due to MEA by the end of the next month (i.e. the February 2013 report should be submitted to MEA by the end of March 2013).

Grant Reporting

- Project addresses:
  - For any address benefitting from more than $100 in grant funds, the project address will need to be listed in section 10 of the project report.
  - For any addresses receiving less than $100 in grant funds, the total number of homes can be aggregated by project zip code and then listed in section 10.

#	**Project location addresses (include zip code)**	**Energy Measures** Examples include: CFLs, air sealing, HVAC upgrade, water heater replacement
1	60 West Street, 21401	Air sealing, HVAC upgrade
2	21401	10 homes received pipe wrap and an insulation blanket for the existing water heater
3		

Grant Reporting

- Grantees are required to report on the number and type of energy efficiency measures being installed rather than the energy savings.
  - This programmatic change will allow MEA to leverage standardized energy savings assumptions outlined in the Mid-Atlantic Technical Reference Manual (TRM) created by the Northeast Energy Efficiency Partnerships (NEEP).
  - This change allows MEA to better estimate the energy savings associated with this program.
  - To estimate energy savings, <u>all</u> of the energy metrics must be submitted. Incomplete energy reports will be returned and may delay reimbursement.

Central Furnace Fan Motors: # of residential energy efficient central furnace fan motors installed during this reporting month.	
a. Of the homes receiving central furnace fan upgrades, how many of these homes also have central air conditioning?	
Window Air Conditioning: # of residential ENERGY STAR window air conditioning units installed during this reporting month.	
a. Of the window air conditioning units quantified above, how many of these units are also CEE Tier 1 qualified?	
Central Air Conditioning (CAC): # of residential ENERGY STAR qualified central air conditioning units installed during this reporting month.	
a. What is the BTU/hour rating for the central air conditioning unit being installed? (Note: 1 ton = 12,000 BTU/hour)	
b. What is the SEER rating for the central air conditioning unit being installed? * If multiple homes received CAC, please provide documentation for additional homes at the end of this report in the "Notes" section.	
Heat Pumps: # of residential ENERGY STAR qualified air source heat pumps installed during this reporting month.	3
a. What is the BTU/hr rating for the air source heat pump being installed? (Note: 1 ton = 12,000 BTU/hr)	2 ton = 24,000 BTU/hr
b. What is the Seasonal Energy Efficiency Ratio (SEER) of the new heat pump being installed?	15 SEER
c. What is the Heating Seasonal Performance Factor (HSPF) of the new heat pump being installed? * If multiple homes received heat pumps, please provide documentation for additional homes at the end of this report in the "Notes" section	8.5
Gas Furnaces: # of residential ENERGY STAR qualified gas furnaces installed during this reporting month.	
a. What is the capacity of the gas furnace (BTUH) being installed?	
b. What is the annual fuel utilization efficiency (AFUE) rating of the new gas furnace? * If multiple homes received gas furnaces, please provide documentation for additional homes at the end of this report in the "Notes" section	

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Questions?

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