

# Grantee: Springfield, MA

## Grant: B-13-MS-25-0002

October 1, 2019 thru December 31, 2019

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**Grant Number:**

B-13-MS-25-0002

**Obligation Date:****Award Date:****Grantee Name:**

Springfield, MA

**Contract End Date:****Review by HUD:**

Reviewed and Approved

**Grant Award Amount:**

\$17,056,880.00

**Grant Status:**

Active

**QPR Contact:**

Cathy Kelly Buono

**LOCCS Authorized Amount:**

\$17,056,880.00

**Estimated PI/RL Funds:**

\$200,000.00

**Total Budget:**

\$17,256,880.00

## Disasters:

### Declaration Number

No Disasters Found

## Narratives

### Executive Summary:

Springfield, Massachusetts, located at the crossroads of New England at the confluence of four rivers, is creating an Urban Watershed Resilience Zone made up of its most economically distressed neighborhoods. With National Disaster Resilience funding and leveraged resources, the City will carry out a portfolio of projects throughout this 6.8 square mile Zone that will: provide flood protection; introduce two clean redundant energy sources; create and enhance business, employment, and job training opportunities; provide safe and healthy housing; and continue to engage residents regarding climate change and environmental stewardship. The Zone's projects have significant co-benefits, including recreation opportunities, local and regional health benefits, decreased heat island effect, disaster preparedness, and climate change mitigation. The City's comprehensive approach in a focused target area will support neighborhood revitalization. Springfield is piloting these projects in the region's lowest-income neighborhoods, with the long-term plan of expanding key interventions city-wide and providing a model for other towns in the Pioneer Valley. In addition, the Urban Watershed Resilience Zone is intended to serve as a model for Springfield's peer cities - waterfront urban communities in the northeast and mid-Atlantic - to respond to flood and energy interruption risks expected as a result of climate change, as well as to the challenges of urban poverty.

The City was awarded \$17,056,880 in National Disaster Resilience funds to support this resilience initiative, which will leverage \$63,087,905 in other investments. The five projects funded by NDR are Clean Redundant Energy Sources, Healty Homes Rehab Program, Business and Job Opportunities, Administration and Planning including Community Engagement. The projects draw on strategies identified in region's 2012-2014 HUD-funded Sustainable Communities Regional Planning initiative, and will significantly enhance the long-term commitment that Springfield has already made to climate change adaptation and mitigation through long-term planning, and legislative and policy change. The impacts of climate change and recognition of the need to find ways to live with water and the changing environment became strikingly apparent for Springfield during the period 2011 through 2013, when the city experienced five presidentially-declared disasters, the most of any municipality in the country during that time period. The most severe was an EF3 tornado—very unusual in New England—which tore a ½ mile wide, 6.2-mile long swath of destruction through the heart of the City's downtown and residential neighborhoods. Tornado damage to structures, including leaking roofs, was exacerbated by wind and rains of Tropical Storm Irene in August 2011. Another freak storm, the October 2011 record early snowstorm, decimated the City's tree canopy which was vulnerable because trees were still fully-leaved out. Springfield's other disasters were a 2011 blizzard and 2013 Superstorm Nemo. Springfield is located in western Massachusetts and is the fourth largest city in New England, with a population of roughly 150,000, in a metropolitan area of almost 700,000. While the City is unique in experiencing so many disasters in such a otherwise a prototypical northeast post-indu

### Executive Summary:

trial city. Following loss of manufacturing jobs, white flight, foreclosures and housing abandonment, the City's economic distress has become geographically concentrated in the neighborhoods designated as the Urban Watershed Resilience Zone. These neighborhoods about the downtown area, are closest to the Connecticut River, have a 41% poverty rate, and are made up predominantly of people of color. The target neighborhoods are home to 10% of the region's total population but include 3

### MID-URN Areas:

Springfield is located in Hampden County, Massachusetts, which is designated as a most impacted and distressed area in the NDR competition. Within Hampden County, Springfield is targeting a defined geographic portion of the City that it has designated as the Urban Watershed Resilience Zone, made up of all or portions of Springfield's disaster-impacted and most economically distressed eight neighborhoods: Brightwood, Memorial Square, lower Liberty Heights, Metro Center, South End, Six Corners, Old Hill, and a portion of Forest Park. The following census tracts/blocks comprise the Urban Water Resilience Zone: 8004.001, 8004.002, 8005.001, 8005.002, 8006, 8007, 8008, 8009, 8011.01, 8011.02, 8012, 8017, 8018, 8019.01, 8019.02, 8020, 8021.001, 8021.002, 8021.004, 8022, and 8023.



**Key Agencies, Partners, Positions, Personnel:**

Springfield will partner with Baystate Health, DevelopSpringfield, the Pioneer Valley Planning Commission, the Hampden County Regional Employment Board, Tech Foundry, ReGreen Springfield, and Partners for a Healthier Community. The Springfield Water and Sewer Commission is providing critical supporting commitments.

Baystate Health will develop, own and operate the cogeneration facility at Baystate Medical Center. Baystate Health is made up of six hospitals, 80 medical groups and its own health insurance plan, Health New England. The system is overseen by a 23-member Board of Trustees and President and CEO Dr. Mark A. Keroack. Baystate Health completed a \$296 million new "Hospital of the Future" facility in 2012, developed the TechSpring Innovation Center in 2014, and purchased Noble Hospital, in Westfield, Massachusetts, in 2015. Development of the cogeneration facility is being led by Sean M. Gouvin, Director Facilities Planning & Engineering. Mr. Gouvin oversees planning, design, maintenance, and construction for approximately 4 million square feet of facility space, including BayState Health's six hospitals.

DevelopSpringfield is developing the Springfield Innovation Center. DevelopSpringfield is a nonprofit, 501(c)(3) corporation with the mission to advance development and redevelopment projects, to stimulate and support economic growth, and to expedite the revitalization process within the City of Springfield. The organization is led by a board of directors which includes representatives from the City, state, and local business community, and its Executive Director is Jay Minkarah, who has over 25 years' experience in planning and economic development, including serving as Economic Development Director for the City of Nashua, NH and Community Development Director for the Town of Merrimack NH.

The Pioneer Valley Planning Commission (PVPC) will support the NDR Program by providing ongoing assistance with community engagement, undertaking community-involved climate change planning and providing ongoing data collection and analysis. PVPC is also consulting with the City on its Complete Streets program and providing technical assistance regarding bio retention tree boxes. PVPC, a quasi-governmental regional planning agency, is the primary agency responsible for increasing communication, cooperation, and coordination among all levels of government as well as the private business and civic sectors for the benefit of the Pioneer Valley region and its residents' quality of life.

The Regional Employment Board of Hampden County (REB) will provide job training. Established by Federal and State legislation, the REB is a business-led, non-profit corporation that engages its members from business, education, labor and community-based agencies to set public policies that will build a better workforce. The REB has an annual budget of \$12.3 million in state and federal funding. It is governed by a 44-member Board of Directors, and its Executive Director is David Cruise, who has been with the organization for 9 years.

Tech Foundry will operate the Information Technology job training program. TechFoundry is a nonprofit

**Key Agencies, Partners, Positions, Personnel:**

an organization that teaches technical and workplace skills that tech companies want in an entry-level employee. The organization seeks to transform the economic landscape of the Pioneer Valley by creating a highly trained IT workforce that draws national companies to the region. It graduated its first class of 23 yearlong students in June 2015.

The nonprofit organization ReGreen Springfield will operate tree planting, tree care, education, and volunteer opportunities to City residents. The mission of ReGreen Springfield is to promote the reforestation of Springfield, improve growing conditions for trees, and engage new allies in tree care and monitoring, education, and citizen science. ReGreen Springfield's experience includes partnership with the City to operate a \$0.5 million program to help restore Springfield's urban forest canopy by strategically planting 1,140 trees on over 450 private properties in locations that will lead to reduced energy use. This project was awarded the Massachusetts Municipal Association's 2014 Kenneth E. Pickard Municipal Innovation Award.

Partners for a Healthier Community (PHC) is leading Springfield's Healthy Homes Initiative. PHC is a nonprofit organization committed to improving the public's health by fostering innovation, leveraging resources, and building partnerships across sectors, including government agencies, communities, the health care delivery system, media, and academia. The agency is led by a 21-member Board of Directors and its Executive Director, Jessica Collins, who holds a master's degree and over 15 years' experience in the public health field. The work of the organization is carried out by eight staff and contracted consultants.

The Springfield Water and Sewer Commission (SWSC) is coordinating with the City to enhance flood control systems. SWSC is governed by a three-member Board of the Commissioners, appointed by the Mayor of Springfield and approved by the City Council, and responsible for establishing policies and procedures for efficient water and sewer operations. Operations are carried out by 240 employees under the Executive Director, Katherine Pederson. Construction projects are managed by Chief Engineer Robert Stoops who has over 25 years design and construction experience, and has overseen capital projects at the SWSC for 13 years.

<b>Overall</b>	<b>This Report Period</b>	<b>To Date</b>
<b>Total Projected Budget from All Sources</b>	\$23,193,612.72	\$40,250,491.72
<b>Total Budget</b>	\$0.00	\$17,056,879.00
<b>Total Obligated</b>	\$0.00	\$17,056,879.00
<b>Total Funds Drawdown</b>	\$236,780.71	\$8,040,346.83
<b>Program Funds Drawdown</b>	\$236,780.71	\$8,040,346.83
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$545,545.87	\$8,040,346.83
<b>HUD Identified Most Impacted and Distressed</b>	\$0.00	\$0.00
<b>Other Funds</b>	\$ 23,193,612.72	\$ 23,193,612.72
Match Funds	\$ 23,193,612.72	\$ 23,193,612.72
Non-Match Funds	\$ 0.00	\$ 0.00



## Funds Expended

### Overall

City of Springfield2

### This Period

\$ 545,545.87

### To Date

\$ 8,040,346.83

## Progress Toward Required Numeric Targets

Requirement	Target	Projected	Actual
<b>Overall Benefit Percentage</b>	50.00%	65.54%	27.71%
<b>Overall Benefit Amount</b>	\$7,917,108.50	\$10,246,508.48	\$1,993,582.74
<b>Minimum Supporting Leverage</b>	\$38,746,683.00	\$ .00	\$ .00
<b>Minimum Direct Leverage</b>	\$24,341,222.00	\$ .00	\$ .00
<b>Limit on Public Services</b>	\$2,558,532.00	\$591,716.00	\$474,816.71
<b>Limit on Admin/Planning</b>	\$3,411,376.00	\$1,422,663.00	\$847,008.31
<b>Limit on Admin</b>	\$ .00	\$852,844.00	\$287,744.94
<b>Most Impacted and Distressed</b>	\$ .00	\$ .00	\$ .00

## Overall Progress Narrative:

10/1/2019 - 12/31/2019

Activity #1: Cogeneration Facility. All construction at Baystate is complete, all documentation has been received, and project is closed. Baystate Health in partnership with the City of Springfield completed construction of the combined heat and power plant on their medical center campus to provide non-grid electricity, chilled water and steam. Prior to construction of the co-gen facility, Baystate, in the event of an energy disruption, would have to start downgrading services after 90 hours. The co-gen facility now allows Baystate to operate fully for a minimum of thirty days, without a downgrade in services. The project currently provides 75% of Baystate Health's annual energy consumption, which is anticipated to increase to 80% this year as the utility company reduces load limits on the electrical service. The co-gen plant reduces Baystate's carbon footprint, with an annual reduction of greenhouse gases (CO2e) by 4,507 tons, which equates to 957 passenger vehicles off the road for a year. Total project cost of \$28,192,613.42, including \$4,999,000.70 in CDBG-NDR funding, \$2,790,099.00 from the Commonwealth of Massachusetts and a private leverage funding totaling \$20,403,513.72.

Activity #2: Hydropower. GZA and the City continue to work on the design and permitting of this project. The City anticipates an initial permitting meeting with the DEP within the next quarter.

Activity #3: Healthy Homes. Two new Healthy Homes rehab project loans closed within this quarter and three have construction in progress. The City anticipates five new loans closing and three rehab projects completed within the next quarter. Accomplishment data for the three completed projects in the last quarter have been entered in this quarter.

Activity #4: Springfield Innovation Center. Exterior masonry work has been completed and the staging has been removed. A new tenant, Berkshire Bank signed a lease during November, 2019 and Make It Springfield is expected to become a new tenant in the first quarter of 2020. Plans are currently underway for a grand opening celebration for the SIC with congressman Richie Neal and other local and state dignitaries for January 2020. Develop Springfield also intends to roll out an updated website which is scheduled to go live in Q1 2020. The six businesses assisted that were reported last month are added to the accomplishment totals this month; bringing total businesses assisted to 21.

Activity #5: Safe Homes Training. Masshire Hamden County Workforce Board, Inc. had 12 students successfully complete training during this reporting period. The last training session has concluded and the City is processing invoices. Within the next quarter, they will be tracking students and working with them on job placement.

Activity #6: IT Workforce Program. The City increased funding for Tech Foundry to support another training session during this reporting period. In terms of outreach, 73 total potential students were recruited and 32 students applied for training in this quarter. No students completed training during this quarter, however, five students who previously completed training are now gainfully employed and one student has enrolled in higher education. The program will be extended at least through the end of 2020.

Activity #7: Administration. Expenditures for thadministration of the CDBG-NDR Grant th programmatic and fiscal.

Activity #8: Planning. Expenures for the planning of the CDBG-NDR Grant.

Activity #9 Climate Change Action Plan: The plan is complete and the City continues to work towards implementation of the plan. To date, there has been a total of 518 volunteer hours spent addressing environmental issues present in the city. Of that, 240 hours were from Green Committee, 78 hours were from helping with CARP, and 200 hours were from the Springfield Climate Justice Coalition. A total of 441 individuals were engaged and educated regarding climate change through intensive education and engagement, plus Springfield citizens who read about the work in the local newspapers or local TV coverage. There were 203 survey respondents, 164 attended workshops/meetings/educational events, 34 stakeholder interviews, and 40 final workshop attendees.

Activity #10: Citizen Science Initiative. The City has processed all invoices for Citizen Science Initiative. 18 low/mod students obtained certificates of completion.

Activity #11: Citizen Tree Stewart Program. The City has processed all invoices for Citizen Tree Stewart Program. 33 low/mod students obtained certificates of completion.

Activity #12: Phase 2 - Climate Action Plan. This is linked to Activity# 9 and has been completed. The City continues to work towards implementation of the plan.

Activity #13: % Reduction of Municipal Energy Use. The City committed to reducing Energy use by an additional 5%. To date the City has reduced energy by 3%.

Activity #14: Complete Hazard Mitigation Plan. The Hazard Mitigation Plan was reviewed and accepted by FEMA on October 28, 2016. This activity is closed.

Activity #15: Supporting Leverage - Springfield Water and Sewer total leveraged funding commitment was \$54,350,000.00. To date they have spent \$35,000,000.00 with construction ongoing. The original anticipated cost for the work was \$54,350,000. The new estimated for total cost for all projects is \$100,000,000.00

Activity #16: Environmental Values - # of Climate Action Plans Completed and % reduction in kWh used. The Climate Action Plan is complete and the City continues to work towards implementation of the plan. This activity is linked to Activity 9. The City committed to reducing Energy use by an additional 5%. To date the City has reduced energy by 3%. This reduction is also linked to Activities 1 and 2.

Activity #17: Economic Values - % reduction in utility costs and % increase in business revenue.

The Economic Value for reduction in utility costs is linked to Activity 1 and Activity 2. The Cogeneration Facility work is



complete. DOER and the City have approved final payments to Baystate and the activity is closed. The City will continue to work with Baystate on % reduction in utility costs.

% increase in business revenues for business utilizing the innovation center - The business revenue is linked to Activity 4. Exterior masonry work has been completed and the staging has been removed. A new tenant, Berkshire Bank signed a lease during November, 2019 and Make It Springfield is expected to become a new tenant in the first quarter of 2020. Plans are currently underway for a grand opening celebration for the SIC with congressman Richie Neal and other local and state dignitaries for January 2020. Develop Springfield also intends to roll out an updated website which is scheduled to go live in Q1 2020. The six businesses assisted that were reported last month are added to the accomplishment totals this month; bringing total businesses assisted to 21.

Activity #18: Social Values - # of healthy homes interventions and # of people enrolled in training programs. This value is linked to Activities 4, 5, and 6. To date the City of Springfield has completed 17 healthy homes interventions and 54 people have enrolled in training programs.

Activity #19: Resilience Values - # of Mitigation Plans Completed, # of residential building permits, and % reduction in kWh used. The Hazard Mitigation Plan was reviewed and accepted by FEMA on October 28, 2016. Residential building permits if linked to Activity 3. Construction is ongoing. The City committed to reducing Energy use by an additional 5%. To date the City has reduced energy by 3%. This reduction is also linked to Activities 1 and 2.

## Project Summary

Project #, Project Title	This Report	To Date	
	Program Funds Drawdown	Project Funds Budgeted	Program Funds Drawdown
LTC-5, LTC-Long Term Commitments	\$0.00	\$0.00	\$0.00
NDR-1, NDR-Clean Redundant Energy Sources	\$2,285.70	\$10,067,500.00	\$5,438,421.12
NDR-2, NDR-Healthy Homes Rehabilitation Program	\$128,218.67	\$4,675,001.00	\$1,167,053.13
NDR-3, NDR-Business and Job Opportunities	\$92,547.31	\$891,716.00	\$587,864.27
NDR-4, NDR-Administration and Planning	\$13,729.03	\$1,422,663.00	\$847,008.31
OV-7, OV-Outcome Values	\$0.00	\$0.00	\$0.00
SL-6, SL-Supporting Leverage	\$0.00	\$0.00	\$0.00

## Activities

**Project # / LTC-5 / LTC-Long Term Commitments**

## Grantee Activity Number: 12-LTC

### Activity Title: Phase 2-Climate Action Plan

**Activity Type:**  
NDR - Long Term Commitment

**Project Number:**  
LTC-5

**Projected Start Date:**  
10/30/2016

**Benefit Type:**  
N/A

**National Objective:**  
NA

**Activity Status:**  
Under Way

**Project Title:**  
LTC-Long Term Commitments

**Projected End Date:**  
06/30/2017

**Completed Activity Actual End Date:**  
06/30/2017

**Responsible Organization:**  
City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$0.00
<b>Total Budget</b>	\$0.00	\$0.00
<b>Total Obligated</b>	\$0.00	\$0.00
<b>Total Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$0.00
City of Springfield2	\$0.00	\$0.00
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

#### Activity Description:

Complete Phase 2 of the Climate Action Plan – June 30, 2017  
Climate Change Action Plan. Springfield has completed phase 1 of a climate change plan and will partner with the Pioneer Valley Planning Commission (PVPC) to complete phase 2. This will include all public outreach, stakeholder consultation, conducting and compiling all associated research and data collection, drafting the plan, incorporating all feedback and providing final version of the plan.

#### Location Description:

City of Springfield

#### Activity Progress Narrative:

Phase 2 – Climate Action Plan. This is linked to Activity# 9 and has been completed. The City continues to work toward implementation of the plan.

## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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**Activity Supporting Documents:**

None

## Grantee Activity Number: 13-LTC

### Activity Title: % Reduction of Municipal Energy Use

**Activity Type:**

NDR - Long Term Commitment

**Project Number:**

LTC-5

**Projected Start Date:**

10/30/2016

**Benefit Type:**

N/A

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

LTC-Long Term Commitments

**Projected End Date:**

01/31/2017

**Completed Activity Actual End Date:****Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$0.00
<b>Total Budget</b>	\$0.00	\$0.00
<b>Total Obligated</b>	\$0.00	\$0.00
<b>Total Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$0.00
City of Springfield2	\$0.00	\$0.00
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

% reduction of Municipal energy use – 5%  
Reduction in Municipal Energy Use. The City has been focused on reduction of municipal energy use since 2007, and it reduced energy use 23% from the first year through FY14. In FY14, the City used 2,016,289 BTUs of natural gas and 46,455,434 electric kWh. The City installed new boilers, LED lighting, and Energy Management Systems (EMS) in all municipal buildings. The City has committed to take actions to reduce energy amounts an additional 5% within the next year. Springfield's commitment and performance on this metric have enabled it to be a designated Massachusetts Green Community, which provides the opportunity to apply for state grants for energy projects.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

% Reduction of Municipal Energy Use. The City committed to reducing Energy use by an additional 5%. To date the City has reduced energy by 3%.

## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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**Activity Supporting Documents:**

None



## Grantee Activity Number: 14-LTC

### Activity Title: Complete Hazard Mitigation Plan

**Activity Type:**  
NDR - Long Term Commitment

**Project Number:**  
LTC-5

**Projected Start Date:**  
10/30/2016

**Benefit Type:**  
N/A

**National Objective:**  
NA

**Activity Status:**  
Under Way

**Project Title:**  
LTC-Long Term Commitments

**Projected End Date:**  
01/31/2017

**Completed Activity Actual End Date:**  
10/28/2016

**Responsible Organization:**  
City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$0.00
<b>Total Budget</b>	\$0.00	\$0.00
<b>Total Obligated</b>	\$0.00	\$0.00
<b>Total Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$0.00
City of Springfield2	\$0.00	\$0.00
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

#### Activity Description:

Complete Hazard Mitigation Plan and receive approval from both MEMA and FEMA-1 complete plan Hazard Mitigation Plan. Since the 2011-2013 disasters, Springfield has created a comprehensive Hazard Mitigation Plan, which incorporates projections and risk from climate change science to guide the City's disaster planning. For example, the Plan specifically addresses increased risk from rain events of increased capacity and duration. The Hazard Mitigation Plan was approved by the Massachusetts Emergency Management Agency (MEMA) in October 2015, and has been forwarded to the Federal Emergency Management Agency (FEMA) for its approval.

#### Location Description:

City of Springfield

#### Activity Progress Narrative:

Complete Hazard Mitigation Plan. The Hazard Mitigation Plan was reviewed and accepted by FEMA on October 28, 2016. This activity is closed.



## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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Activity Supporting Documents: None

**Project # / NDR-1 / NDR-Clean Redundant Energy Sources**

## Grantee Activity Number: 01-NDR

### Activity Title: Cogeneration Facility

#### Activity Type:

Acquisition, construction, reconstruction of public facilities

#### Project Number:

NDR-1

#### Projected Start Date:

11/30/2016

#### Benefit Type:

Area ( Survey )

#### National Objective:

Urgent Need

#### Activity Status:

Under Way

#### Project Title:

NDR-Clean Redundant Energy Sources

#### Projected End Date:

12/31/2018

#### Completed Activity Actual End Date:

12/31/2019

#### Responsible Organization:

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$5,087,707.52
<b>Total Budget</b>	\$0.00	\$5,087,707.52
<b>Total Obligated</b>	\$0.00	\$5,087,707.52
<b>Total Funds Drawdown</b>	(\$999.30)	\$5,086,708.22
<b>Program Funds Drawdown</b>	(\$999.30)	\$5,086,708.22
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	(\$999.30)	\$5,086,708.22
City of Springfield2	(\$999.30)	\$5,086,708.22
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

#### Activity Description:

Cogeneration Baystate Health is developing a combined heat and power plant that will provide electricity, chilled water and steam to Baystate Medical Center. The cogeneration plant will produce 80% of Baystate Health's annual energy consumption, and will provide an annual reduction of greenhouse gases by 13,513 tons. While Baystate Health's existing utility system was designed to keep the facility operational for 96 hours after a disaster, the new system will extend resiliency during a utility crisis to more than 30 days. Design and engineering for this \$23 million project is complete.

#### Location Description:

759 Chestnut Street Springfield, MA  
 Census Tract: 8005  
 Block Group: 3

#### Activity Progress Narrative:

Cogeneration Facility. All construction at Baystate is complete, all documentation has been received, and project is closed. Baystate Health in partnership with the City of Springfield completed construction of the combined heat and power plant on their medical center campus to provide non-grid electricity, chilled water and steam. Prior to construction of the co-gen facility, Baystate, in the event of an energy disruption, would have to start downgrading services after 90 hours. The co-gen facility now allows Baystate to operate fully for a minimum of thirty days, without a downgrade in services. The project currently provides 75% of Baystate Health's annual energy consumption, which is anticipated to increase to 80% this year as the utility company reduces load limits on the electrical service. The co-gen plant reduces Baystate's carbon footprint, with an annual reduction of greenhouse gases (CO2e) by 4,507 tons, which equates to 957 passenger vehicles off the



road for a year. Total project cost of \$28,192,613.42, including \$4,999,000.70 in CDBG-NDR funding, \$2,790,099.00 from the Commonwealth of Massachusetts and a private leverage funding totaling \$20,403,513.72.

### Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Properties	0	1/1
# of public facilities	0	1/1

### Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

### Activity Locations

No Activity Locations found.

### Other Funding Sources

No Other Funding Sources Found

### Other Funding Sources Budgeted - Detail

Match Sources	Amount
BayState Health Center	\$18,599,743.00
Subtotal Match Sources	

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**Activity Supporting Documents:** None



## Grantee Activity Number: 02-NDR

### Activity Title: Solar/Hydropower

#### Activity Type:

Acquisition, construction, reconstruction of public facilities

#### Project Number:

NDR-1

#### Projected Start Date:

10/30/2016

#### Benefit Type:

Area ( Survey )

#### National Objective:

Low/Mod

#### Activity Status:

Under Way

#### Project Title:

NDR-Clean Redundant Energy Sources

#### Projected End Date:

09/01/2022

#### Completed Activity Actual End Date:

#### Responsible Organization:

City of Springfield2

#### Overall

#### Total Projected Budget from All Sources

#### Oct 1 thru Dec 31, 2019 To Date

\$0.00 \$4,979,792.48

#### Total Budget

\$0.00 \$4,979,792.48

#### Total Obligated

\$0.00 \$4,979,792.48

#### Total Funds Drawdown

\$3,285.00 \$351,712.90

#### Program Funds Drawdown

\$3,285.00 \$351,712.90

#### Program Income Drawdown

\$0.00 \$0.00

#### Program Income Received

\$0.00 \$0.00

#### Total Funds Expended

\$12,652.50 \$351,712.90

City of Springfield2

\$12,652.50 \$351,712.90

#### Most Impacted and Distressed Expended

\$0.00 \$0.00

#### Activity Description:

Hydropower. Hydropower will be restored downstream of the Watershops Pond dam, onland owned by the City of Springfield . The City has already conducted a feasibility analysis for this project and has filed a permit application with the Federal Energy Regulatory Commission (FERC). The restored hydropower will have the potential to generate 707,000 kWh during an average year and will be capable of functioning independent of the grid. A portion of this electricity will fully power the newly-built Brookings School, located about 800 feet to the north of the project site, which was developed to have the capacity to be used as an emergency center/shelter in the event of disaster. The remainder of the energy has the ability to be made available in the neighborhood.

Approved Modification of Activity - Approved August 19, 2019

Replace Hydropower with Solar

In response to the unforeseen challenges with the original proposal, the City proposes that the clean and redundant energy portion of the project be changed from hydropower to solar. This modification would still include restoration/hardening for the dam at Watershops Pond, but would substitute construction of a photovoltaic (PV) and energy storage system at the Brookings Elementary School for the original hydropower portion of the project.

The energy component of the modified project would incorporate installation of PV systems and energy storage at Brookings School. PV panels would be mounted on the school roof and atop a carport on the site of the school, with an on-site battery storage system. The system would be owned and operated by the City and would provide ongoing energy to Brookings School. With the on-site battery storage, the system would enable the school to have energy even if utility lines are down.

The City would procure a contractor for the purchase and installation of the PV and energy storage system.

The modification of the project from hydropower to solar preserves the benefits of the original project, which were: creation of clean and redundant energy; power to the Brookings School, even when the grid or utility lines are down; and repair of the Watershops Pond dam to protect the low-income neighborhood located below

the dam.

### Location Description:

1 Allen Street  
Census Tract: 8023  
Block Group: 1

### Activity Progress Narrative:

Hydropower. GZA and the City continue to work on the design and permitting of this project. The City anticipates an initial permitting meeting with the DEP within the next quarter.

### Accomplishments Performance Measures

**No Accomplishments Performance Measures**

### Beneficiaries Performance Measures

**No Beneficiaries Performance Measures found.**

### Activity Locations

**No Activity Locations found.**

### Other Funding Sources

No Other Funding Sources Found

### Other Funding Sources Budgeted - Detail

Match Sources	Amount
City of Springfield	\$1,000,000.00
Subtotal Match Sources	

---

**Activity Supporting Documents:** None

**Project # / NDR-2 / NDR-Healthy Homes Rehabilitation Program**



## Grantee Activity Number: 03-NDR

### Activity Title: Housing Rehabilitation

#### Activity Type:

Rehabilitation/reconstruction of residential structures

#### Project Number:

NDR-2

#### Projected Start Date:

01/01/2017

#### Benefit Type:

Direct ( HouseHold )

#### National Objective:

Low/Mod

#### Activity Status:

Under Way

#### Project Title:

NDR-Healthy Homes Rehabilitation Program

#### Projected End Date:

09/01/2022

#### Completed Activity Actual End Date:

#### Responsible Organization:

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$4,675,000.00
<b>Total Budget</b>	\$0.00	\$4,675,000.00
<b>Total Obligated</b>	\$0.00	\$4,675,000.00
<b>Total Funds Drawdown</b>	\$128,218.67	\$1,167,053.13
<b>Program Funds Drawdown</b>	\$128,218.67	\$1,167,053.13
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$334,813.25	\$1,167,053.13
City of Springfield2	\$334,813.25	\$1,167,053.13
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

#### Activity Description:

Springfield will operate a Healthy Homes Rehabilitation program, which will be available for owners of 1-4 unit structures to complete rehabilitation, lead abatement, and healthy homes interventions. The City's goal is to improve the quality of owner-occupied and rental housing stock in targeted and concentrated areas of the City that are vulnerable to abandonment, so that, in a future disaster, owners would be more likely to repair rather than abandon. The project's inclusion of a healthy homes component responds to the significant health disparities faced by the low-income population that lives in the Urban Watershed Resilience Zone. In particular, the Zone's high asthma rates support an effort to address indoor air quality issues.

#### Location Description:

Urban Watershed Resilience Zone

#### Activity Progress Narrative:

Healthy Homes. Two new Healthy Homes rehab project loans closed within this quarter and three have construction in progress. The City anticipates five new loans closing and three rehab projects completed within the next quarter. Accomplishment data for the three completed projects in the last quarter have been entered in this quarter.

## Accomplishments Performance Measures

	This Report Period		Cumulative Actual Total / Expected	
	Total		Total	
# of Elevated Structures	0		0/0	
# of Properties	3		3/100	
# of Substantially Rehabilitated	3		3/75	

	This Report Period		Cumulative Actual Total / Expected	
	Total		Total	
# of Housing Units	3		3/100	
# of Multifamily Units	1		1/60	
# of Singlefamily Units	2		2/40	

## Beneficiaries Performance Measures

	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
# of Households	3	0	3	3/60	0/40	3/100	100.00
# Owner	3	0	3	3/10	0/10	3/20	100.00
# Renter	0	0	0	0/50	0/30	0/80	0

## Activity Locations

No Activity Locations found.

### Other Funding Sources

	Amount
Partners for a Healthier Community	\$367,065.00
Total Other Funding Sources	\$0.00

### Other Funding Sources Budgeted - Detail

Match Sources	Amount
City of Springfield	\$500,000.00
Subtotal Match Sources	\$0.00

Activity Supporting Documents: None

**Project # / NDR-3 / NDR-Business and Job Opportunities**





## Grantee Activity Number: 04-NDR

### Activity Title: Springfield Innovation Center

#### Activity Type:

Econ. development or recovery activity that creates/retains

#### Project Number:

NDR-3

#### Projected Start Date:

01/10/2017

#### Benefit Type:

Direct ( Person )

#### National Objective:

Urgent Need

#### Activity Status:

Under Way

#### Project Title:

NDR-Business and Job Opportunities

#### Projected End Date:

09/01/2018

#### Completed Activity Actual End Date:

#### Responsible Organization:

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$300,000.00
<b>Total Budget</b>	\$0.00	\$300,000.00
<b>Total Obligated</b>	\$0.00	\$300,000.00
<b>Total Funds Drawdown</b>	\$65,944.41	\$113,047.56
<b>Program Funds Drawdown</b>	\$65,944.41	\$113,047.56
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$75,365.04	\$113,047.56
City of Springfield2	\$75,365.04	\$113,047.56
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

#### Activity Description:

Springfield Innovation Center. The City's partner DevelopSpringfield will rehabilitate two adjacent buildings in downtown Springfield to create a 16,500 sq. ft. entrepreneurial center . The Innovation Center is a catalytic project designed to jumpstart reinvestment, job creation and redevelopment activity, while building a community of entrepreneurs. The Center is a collaborative enterprise of developSpringfield, the nonprofit Valley Venture Mentors (VVM), the state of Massachusetts, and MassDevelopment. VVM will manage the business accelerator, which will support emerging entrepreneurs through mentorship, education and enhanced collaboration. Approximately 9,300 square feet of the Innovation Center make up the business accelerator's presentation, conference and co-working space. The Innovation Center will offer rent-free office space and an "innovation cafe" in the adjacent retail space. In addition to providing food and beverage service, the café will provide a test kitchen and prep area to support the emerging food truck industry and other food service entrepreneurs. Over a three-year period, the SIC will support the creation of 50 new businesses. To measure the success of the initiative, the City and its partners will track and evaluate the number of jobs created or retained by the businesses benefitting from the SIC's support. Modification of Scope: Develop Springfield initially sought to incorporate an Innovation Cafe as part of the Innovation Center development. However, after working with the interested operator for many months, the parties have been unable to execute a lease agreement for the cafe.

DevelopSpringfield will be leasing the space to Berkshire Bank. Berkshire Bank will be partnering with Valley Venture Mentors to establish the space for emerging retail businesses as pop-up shops. It is anticipated that approximately 4-5 pop-ups will operate out of the space simultaneously and the pop-up business will be refreshed on a regular basis. VVM will provide the pipeline of retail entrepreneurs. During the time the business occupies the space they will not be paying rent. The demographic focus of the business mentoring is minority entrepreneurs. Additionally, Berkshire Bank will utilize a portion of the space to provide on-site "my bankers" from existing staff that will provide financial technical support and financial literacy to VVM associated businesses.

### Location Description:

Springfield Innovation Center

### Activity Progress Narrative:

Exterior masonry work has been completed and the staging has been removed. A new tenant, Berkshire Bank signed a lease during November, 2019 and Make It Springfield is expected to become a new tenant in the first quarter of 2020. Plans are currently underway for a grand opening celebration for the SIC with congressman Richie Neal and other local and state dignitaries for January 2020. Develop Springfield also intends to roll out an updated website which is scheduled to go live in Q1 2020. The six businesses assisted that were reported last month are added to the accomplishment totals this month; bringing total businesses assisted to 21.

### Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Businesses	6	21/50

### Beneficiaries Performance Measures

**No Beneficiaries Performance Measures found.**

### Activity Locations

**No Activity Locations found.**

### Other Funding Sources

No Other Funding Sources Found

### Other Funding Sources Budgeted - Detail

Match Sources	Amount
Develop Springfield	\$3,874,414.00
Subtotal Match Sources	

---

**Activity Supporting Documents:** None

## Grantee Activity Number: 05-NDR

### Activity Title: Safe Homes Training

**Activity Type:**

Public services

**Project Number:**

NDR-3

**Projected Start Date:**

10/30/2016

**Benefit Type:**

Direct ( Person )

**National Objective:**

Low/Mod

**Activity Status:**

Under Way

**Project Title:**

NDR-Business and Job Opportunities

**Projected End Date:**

09/01/2018

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$191,716.00
<b>Total Budget</b>	\$0.00	\$191,716.00
<b>Total Obligated</b>	\$0.00	\$191,716.00
<b>Total Funds Drawdown</b>	\$19,593.19	\$168,295.27
<b>Program Funds Drawdown</b>	\$19,593.19	\$168,295.27
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$52,849.43	\$168,295.27
City of Springfield2	\$52,849.43	\$168,295.27
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

The Regional Employment Board of Hampden County (REB) will provide job training in the areas of home rehabilitation, lead hazard reduction, and healthy homes. The REB will operate three sessions of the Safe Homes Training Program, which will provide training to 42 low income individuals, with 34 of the individuals becoming employed.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

Masshire Hamden County Workforce Board, Inc. had 12 students successfully complete training during this reporting period. The last training session has concluded and the City is processing invoices. Within the next quarter, they will be tracking students and working with them on job placement.



## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

# of Persons	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
	12	0	12	36/25	0/17	36/42	100.00

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

---

Activity Supporting Documents: None

## Grantee Activity Number: 06-NDR

### Activity Title: IT Workforce Program

**Activity Type:**

Public services

**Project Number:**

NDR-3

**Projected Start Date:**

01/10/2017

**Benefit Type:**

Direct ( Person )

**National Objective:**

Low/Mod

**Activity Status:**

Under Way

**Project Title:**

NDR-Business and Job Opportunities

**Projected End Date:**

09/01/2018

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$400,000.00
<b>Total Budget</b>	\$0.00	\$400,000.00
<b>Total Obligated</b>	\$0.00	\$400,000.00
<b>Total Funds Drawdown</b>	\$7,009.71	\$306,521.44
<b>Program Funds Drawdown</b>	\$7,009.71	\$306,521.44
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$7,009.71	\$306,521.44
City of Springfield2	\$7,009.71	\$306,521.44
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

Tech Foundry will provide information technology training to eligible, low-income residents. The training will consist of five sessions that include classroom work and on-the-job internships. In addition to practical IT skills and badges, the training will also include soft skills development, resume writing instruction and interview skills. To measure the success of the training programs, the City and its partners will track and evaluate the following: the number of low-income residents trained and jobs obtained by low-income residents as a result of the training.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

The City increased funding for Tech Foundry to support another training session during this reporting period. In terms of outreach, 73 total potential students were recruited and 32 students applied for training in this quarter. No students completed training during this quarter, however, five students who previously completed training are now gainfully employed and one student has enrolled in higher education. The program will be extended at least through the end of 2020.



## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

# of Persons	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
	0	0	0	18/75	0/10	18/85	100.00

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

---

Activity Supporting Documents: None

**Project # / NDR-4 / NDR-Administration and Planning**

## Grantee Activity Number: 07-NDR

### Activity Title: Administration

**Activity Type:**

Administration

**Project Number:**

NDR-4

**Projected Start Date:**

10/30/2016

**Benefit Type:**

N/A

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

NDR-Administration and Planning

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

**Overall**

**Total Projected Budget from All Sources**

**Oct 1 thru Dec 31, 2019 To Date**

\$0.00 \$852,844.00

**Total Budget**

\$0.00 \$852,844.00

**Total Obligated**

\$0.00 \$852,844.00

**Total Funds Drawdown**

\$13,729.03 \$287,744.94

**Program Funds Drawdown**

\$13,729.03 \$287,744.94

**Program Income Drawdown**

\$0.00 \$0.00

**Program Income Received**

\$0.00 \$0.00

**Total Funds Expended**

\$33,791.81 \$287,744.94

City of Springfield2

\$33,791.81 \$287,744.94

**Most Impacted and Distressed Expended**

\$0.00 \$0.00

**Activity Description:**

Administrative costs for general program oversight. Activity capped at 5% of total grant

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

Administration. Expenditures for the administration of the CDBG-NDR Grant both programmatic and fiscal.

**Accomplishments Performance Measures**

**No Accomplishments Performance Measures**



## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

---

**Activity Supporting Documents:** None





## Grantee Activity Number: 08-NDR

### Activity Title: Planning

**Activity Type:**

Planning

**Project Number:**

NDR-4

**Projected Start Date:**

11/01/2011

**Benefit Type:**

Area ( Survey )

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

NDR-Administration and Planning

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

**Overall**

**Total Projected Budget from All Sources**

**Oct 1 thru Dec 31, 2019 To Date**

\$0.00 \$93,153.88

**Total Budget**

\$0.00 \$93,153.88

**Total Obligated**

\$0.00 \$93,153.88

**Total Funds Drawdown**

\$0.00 \$82,598.25

**Program Funds Drawdown**

\$0.00 \$82,598.25

**Program Income Drawdown**

\$0.00 \$0.00

**Program Income Received**

\$0.00 \$0.00

**Total Funds Expended**

\$560.40 \$82,598.25

City of Springfield2

\$560.40 \$82,598.25

**Most Impacted and Distressed Expended**

\$0.00 \$0.00

**Activity Description:**

Planning costs associated with the implementation of the NDR Grant. Total planning activities capped at 15% of total grant.

**Location Description:**

Clty of Springfield

**Activity Progress Narrative:**

Planning. Expenditures for the planning of the CDBG-NDR Grant.

**Accomplishments Performance Measures**

**No Accomplishments Performance Measures**

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

---

**Activity Supporting Documents:** None



## Grantee Activity Number: 09-NDR

### Activity Title: Climate Change Action Plan

**Activity Type:**

Planning

**Project Number:**

NDR-4

**Projected Start Date:**

10/30/2016

**Benefit Type:**

Area ( Survey )

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

NDR-Administration and Planning

**Projected End Date:**

06/30/2017

**Completed Activity Actual End Date:**

06/30/2017

**Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$218,268.63
<b>Total Budget</b>	\$0.00	\$218,268.63
<b>Total Obligated</b>	\$0.00	\$218,268.63
<b>Total Funds Drawdown</b>	\$0.00	\$218,268.63
<b>Program Funds Drawdown</b>	\$0.00	\$218,268.63
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$218,268.63
City of Springfield2	\$0.00	\$218,268.63
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

Climate Change Action Plan. While Springfield has already completed phase 1 of a climatechange plan, the City will partner with the Pioneer Valley Planning Commission (PVPC) in 2016to complete phase 2. This will include all public outreach, stakeholder consultation, conductingand compiling all associated research and data collection, drafting the plan, incorporating allfeedback and providing final version of the plan. To measure the success of the initiatives outlined above, the City and its partners will track and evaluate the following metrics: (1) number of volunteer hours spent addressing environmental issues present in the City; and (2) number of individuals engaged and educated regarding climate change.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

Climate Change Action Plan: The plan is complete and the City continues to work towards implementation of the plan. To date, there has been a total of 518 volunteer hours spent addressing environmental issues present in the city. Of that, 240 hours were from Green Committee, 78 hours were from helping with CARP, and 200 hours were from the Springfield Climate Justice Coalition. A total of 441 individuals were engaged and educated regarding climate change through intensive education and engagement, plus Springfield citizens who read about the work in the local newspapers or local TV coverage. There were 203 survey respondents, 164 attended workshops/meetings/educational events, 34 stakeholder interviews, and 40 final workshop attendees.



## Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of Plans or Planning Products	-1	1/1

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

---

Activity Supporting Documents: None



## Grantee Activity Number: 10-NDR

### Activity Title: Citizen Science Initiative

#### Activity Type:

Planning

#### Project Number:

NDR-4

#### Projected Start Date:

10/30/2016

#### Benefit Type:

Area ( Survey )

#### National Objective:

Urgent Need

#### Activity Status:

Under Way

#### Project Title:

NDR-Administration and Planning

#### Projected End Date:

09/01/2022

#### Completed Activity Actual End Date:

#### Responsible Organization:

City of Springfield2

#### Overall

#### Total Projected Budget from All Sources

#### Oct 1 thru Dec 31, 2019 To Date

\$0.00 \$130,180.69

#### Total Budget

\$0.00 \$130,180.69

#### Total Obligated

\$0.00 \$130,180.69

#### Total Funds Drawdown

\$0.00 \$130,180.69

#### Program Funds Drawdown

\$0.00 \$130,180.69

#### Program Income Drawdown

\$0.00 \$0.00

#### Program Income Received

\$0.00 \$0.00

#### Total Funds Expended

\$8,314.94 \$130,180.69

City of Springfield2

\$8,314.94 \$130,180.69

#### Most Impacted and Distressed Expended

\$0.00 \$0.00

#### Activity Description:

The City's partner ReGreen Springfield will engage the community in environmental work and educate the community about the impacts of climate change. They will engage volunteer assistance that enhances the capacity to care for trees and collect data regarding the natural world and changing environmental conditions.

#### Location Description:

LMI neighborhoods impacted by past weather disasters.

#### Activity Progress Narrative:

Citizen Science Initiative. The City has processed all invoices for Citizen Science Initiative. 18 low/mod students obtained certificates of completion.

#### Accomplishments Performance Measures

#### No Accomplishments Performance Measures



## Beneficiaries Performance Measures

# of Persons	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
	0	0	0	0/15	0/0	0/15	0

## Activity Locations

**No Activity Locations found.**

### Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

**No Other Match Funding Sources Found**

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**Activity Supporting Documents:** None

## Grantee Activity Number: 11-NDR

### Activity Title: Citizen Tree Steward Program

**Activity Type:**

Planning

**Project Number:**

NDR-4

**Projected Start Date:**

10/30/2016

**Benefit Type:**

Area ( Survey )

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

NDR-Administration and Planning

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$128,215.80
<b>Total Budget</b>	\$0.00	\$128,215.80
<b>Total Obligated</b>	\$0.00	\$128,215.80
<b>Total Funds Drawdown</b>	\$0.00	\$128,215.80
<b>Program Funds Drawdown</b>	\$0.00	\$128,215.80
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$21,188.09	\$128,215.80
City of Springfield2	\$21,188.09	\$128,215.80
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

The Citizen Tree Steward Program will use volunteer community residents to plant and steward trees throughout the Urban Watershed District. The Community-Based Citizen Science Initiative will engage neighborhood residents, youth, students and others in gathering scientific data related to weather, air and water quality, ecosystem services and sustainability in the Urban Watershed Resilience Zone. The project will use software and protocols developed by the U.S. Forest Service, and will enhance that agency's new urban research projects.

**Location Description:**

LMI neighborhoods impacted by past weather disasters.

**Activity Progress Narrative:**

Citizen Tree Stewart Program. The City has processed all invoices for Citizen Tree Stewart Program. 33 low/mod students obtained certificates of completion.



## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

# of Persons	This Report Period			Cumulative Actual Total / Expected			
	Low	Mod	Total	Low	Mod	Total	Low/Mod%
	0	0	0	0/30	0/0	0/30	0

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

---

Activity Supporting Documents: None

**Project # /**      **OV-7 / OV-Outcome Values**



## Grantee Activity Number: 16-OV

### Activity Title: Environmental Values

**Activity Type:**

NDR - Environmental Value

**Project Number:**

OV-7

**Projected Start Date:**

10/30/2016

**Benefit Type:**

N/A

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

OV-Outcome Values

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$0.00
<b>Total Budget</b>	\$0.00	\$0.00
<b>Total Obligated</b>	\$0.00	\$0.00
<b>Total Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$0.00
City of Springfield2	\$0.00	\$0.00
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

Environmental Values:

# of Climate Action Plans Completed

The plan is linked to Project 4 - Activity 9. The City is partnering with the Pioneer Valley Planning Commission to complete phase 2 of the plan.

% reduction in kWh used

This reduction is linked to Project 1 - Activities 1 and Activity 2. Two new sources of clean and redundant power will be introduced in the form of cogeneration for the regional hospital and hydropower for a new elementary school built to serve a community center during a disaster. This will also include a reduction in Municipal energy used.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

Environmental Values – # of Climate Action Plans Completed and % reduction in kWh used. The Climate Action Plan is complete and the City continues to work towards implementation of the plan. This activity is linked to Activity 9. The City committed to reducing Energy use by an additional 5%. To date the City has reduced energy by 3%.

This reduction is also linked to Activities 1 and 2.



## Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of climate action plans	1	1/1
% reduction in kWh used	3	3/5

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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Activity Supporting Documents: None

## Grantee Activity Number: 17-OV

### Activity Title: Economic Values

**Activity Type:**

NDR - Economic Value

**Project Number:**

OV-7

**Projected Start Date:**

10/30/2016

**Benefit Type:**

N/A

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

OV-Outcome Values

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

**Overall**

**Total Projected Budget from All Sources**

**Oct 1 thru Dec 31, 2019 To Date**

\$0.00

\$0.00

**Total Budget**

\$0.00

\$0.00

**Total Obligated**

\$0.00

\$0.00

**Total Funds Drawdown**

\$0.00

\$0.00

**Program Funds Drawdown**

\$0.00

\$0.00

**Program Income Drawdown**

\$0.00

\$0.00

**Program Income Received**

\$0.00

\$0.00

**Total Funds Expended**

\$0.00

\$0.00

City of Springfield2

\$0.00

\$0.00

**Most Impacted and Distressed Expended**

\$0.00

\$0.00

**Activity Description:**

Economic Values:

% reduction in utility costs

The Economic Value for reduction in utility costs is linked to Project 1, Activity 1 and Activity 2. Two new sources of clean and redundant power will be introduced in the form of cogeneration for the regional hospital and hydropower for a new elementary school built to serve a community center during a disaster.

% increase in business revenues for business utilizing the innovation center –

The Economic Value for the % in business revenue is linked to Project 3, Activity 6. The Springfield Innovation Center is a new business incubator. It is a catalytic project designed to jumpstart reinvestment, job creation and redevelopment activities while building a community of entrepreneurs.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

Economic Values – % reduction in utility costs and % increase in business revenue.

The Economic Value for reduction in utility costs is linked to Activity 1 and Activity 2. The Cogeneration Facility work is complete. DOER and the City have approved final payments to Baystate and the activity is closed. The City will continue to work with Baystate on % reduction in utility costs.

% increase in business revenues for business utilizing the innovation center – The business revenue is linked to Activity 4. Exterior masonry work has been completed and the staging has been removed. A new tenant, Berkshire Bank signed a lease during November, 2019 and Make It Springfield is expected to become a new tenant in the first quarter of 2020. Plans are currently underway for a grand opening celebration for the SIC with congressman Richie Neal and other local and state dignitaries for January 2020. Develop Springfield also intends to roll out an updated website which is scheduled to go live in Q1 2020. The six businesses assisted that were reported last month are added to the accomplishment totals this month; bringing total businesses assisted to 21.

### Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
% increase in business revenue	0	0/5
% reduction in utility costs	0	0/5

### Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

### Activity Locations

No Activity Locations found.

### Other Funding Sources

No Other Funding Sources Found

### Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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Activity Supporting Documents: None

## Grantee Activity Number: 18-OV

### Activity Title: Social Values

**Activity Type:**

NDR - Social Value

**Project Number:**

OV-7

**Projected Start Date:**

10/30/2016

**Benefit Type:**

N/A

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

OV-Outcome Values

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$0.00
<b>Total Budget</b>	\$0.00	\$0.00
<b>Total Obligated</b>	\$0.00	\$0.00
<b>Total Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$0.00
City of Springfield2	\$0.00	\$0.00
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

Social Values:

# of healthy homes interventions

This value is linked to Project 2 - Activity 3.

The project's inclusion of a healthy homes component responds to the significant health disparities faced by the low-income population that lives in the Urban Watershed Resilience Zone.

# of people enrolled in training programs

The value is linked to Project 3 - Activity 4, 5, and 6

The City is using two strategies, job training and a new business incubator to assist low-income adults and youth to gain employment.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

Social Values – # of healthy homes interventions and # of people enrolled in training programs. This value is linked to Activities 4, 5, and 6.

To date the City of Springfield has completed 17 healthy homes interventions and 54 people have enrolled in training programs.



## Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of healthy homes	17	17/80
# of people enrolled	54	54/127

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

No Other Funding Sources Found

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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Activity Supporting Documents: None

## Grantee Activity Number: 19-OV

### Activity Title: Resilience Value

**Activity Type:**

NDR - Resilience Value

**Project Number:**

OV-7

**Projected Start Date:**

10/30/2016

**Benefit Type:**

N/A

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

OV-Outcome Values

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:**

**Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$0.00
<b>Total Budget</b>	\$0.00	\$0.00
<b>Total Obligated</b>	\$0.00	\$0.00
<b>Total Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$0.00
City of Springfield2	\$0.00	\$0.00
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

Resilience Value:

# of Mitigation Plans Completed

The plan is linked to Project 5 - Activity 3.

Springfield has created a comprehensive Hazard Mitigation Plan, which incorporates projections and risk from climate change science to guide the City's disaster planning

# of residential building permits

This increase is linked to Project 2 - Activity #3. Springfield will operate a Healthy Homes Rehabilitation program, which will be available for owners of 1-4 unit structures to complete rehabilitation, lead abatement, and healthy homes interventions.

% reduction in kWh used

This reduction is linked to Project 1 - Activities 1 and Activity 2. Two new sources of clean and redundant power will be introduced in the form of cogeneration for the regional hospital and hydropower for a new elementary school built to serve a community center during a disaster. This will also include a reduction in Municipal energy used.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**



Resilience Values - # of Mitigation Plans Completed, # of residential building permits, and % reduction in kWh used. The Hazard Mitigation Plan was reviewed and accepted by FEMA on October 28, 2016. Residential building permits if linked to Activity 3. Construction is ongoing. The City committed to reducing Energy use by an additional 5%. To date the City has reduced energy by 3%. This reduction is also linked to Activities 1 and 2.

### Accomplishments Performance Measures

	This Report Period	Cumulative Actual Total / Expected
	Total	Total
# of mitigation plans completed	1	1/1
# of residential building permits	0	0/100
% reduction in kWh used	3	3/5

### Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

### Activity Locations

No Activity Locations found.

### Other Funding Sources

No Other Funding Sources Found

### Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

Activity Supporting Documents: None

**Project # / SL-6 / SL-Supporting Leverage**





## Grantee Activity Number: 15-SL

### Activity Title: Springfield Water and Sewer Commission

**Activity Type:**

NDR - Supporting Leverage

**Project Number:**

SL-6

**Projected Start Date:**

10/30/2016

**Benefit Type:**

N/A

**National Objective:**

NA

**Activity Status:**

Under Way

**Project Title:**

SL-Supporting Leverage

**Projected End Date:**

09/01/2022

**Completed Activity Actual End Date:****Responsible Organization:**

City of Springfield2

Overall	Oct 1 thru Dec 31, 2019	To Date
<b>Total Projected Budget from All Sources</b>	\$0.00	\$0.00
<b>Total Budget</b>	\$0.00	\$0.00
<b>Total Obligated</b>	\$0.00	\$0.00
<b>Total Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Funds Drawdown</b>	\$0.00	\$0.00
<b>Program Income Drawdown</b>	\$0.00	\$0.00
<b>Program Income Received</b>	\$0.00	\$0.00
<b>Total Funds Expended</b>	\$0.00	\$0.00
City of Springfield2	\$0.00	\$0.00
<b>Most Impacted and Distressed Expended</b>	\$0.00	\$0.00

**Activity Description:**

Supporting Commitment: Springfield Water and Sewer Commission Flood Protection and Stormwater-Sewer Separation. The City's flood protection work at Watershops Pond (the increased storage capacity and dam restoration/upgrade) is significantly enhanced by work that the Springfield Water and Sewer Commission (SWSC) is undertaking in the same watershed area. SWSC is separating stormwater and sewage pipes in the Upper Hill neighborhood adjacent to Watershops Pond, and in the main interceptor system which extends from the Watershops Pond dam to the Connecticut River. Both projects will incorporate larger pipes with greater carrying capacity, which will both reduce flood events and CSO discharges. SWSC is also adding additional stormwater and sewer pipe crossings from the City side under the Connecticut River to the water treatment plant, and adding an additional pump station to move water through these new crossings. This additional capacity also reduces flood risk and CSO discharge.

**Location Description:**

City of Springfield

**Activity Progress Narrative:**

Supporting Leverage – Springfield Water and Sewer total leveraged funding commitment was \$54,350,000.00. To date they have spent \$35,000,000.00 with construction ongoing. The original anticipated cost for the work was \$54,350,000. The new estimated for total cost for all projects is \$100,000,000.00.

## Accomplishments Performance Measures

No Accomplishments Performance Measures

## Beneficiaries Performance Measures

No Beneficiaries Performance Measures found.

## Activity Locations

No Activity Locations found.

## Other Funding Sources

SWSC

**Amount**

\$38,746,683.00

Total Other Funding Sources

\$0.00

## Other Funding Sources Budgeted - Detail

No Other Match Funding Sources Found

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**Activity Supporting Documents:**

None