

Subapplicant information

Name of federal agencyFEMA

Type of submissionApplication

STATE OF MARYLAND INST

653 W PRATT ST
BALTIMORE, MD 21201 United States

State	UEI-EFT	DUNS #	EIN #
MD	QM3LK2ZNGKK3	178508909	

Subapplicant typeState Government

Is the subapplicant subject to review by Executive Order 12372 Process?Yes-This Pre-application/application was made available to the Executive Order 12372 Process for review on.

Enter date2025-03-07

Is the subapplicant delinquent on any federal debt?No

Contact information

Subrecipient Authorized Representative (SAR)

Todd Tracey	Primary phone 4107062370	Mailing address
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Work

todd.tracey1@maryland.gov

Point(s) of contact

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Emergency Prep & Ops Coord

todd.tracey1@maryland.gov

Primary phone
4107062370
Work

Fax

Additional phones
4437942278
Mobile

Mailing address
653 West Pratt Street
Baltimore MD 21201

Community

Please provide the following information. If the Congressional district number for your community does not display correctly, please contact your State NFIP coordinator.

Add Communities

Please find the community(ies) that will benefit from this mitigation activity by clicking on the Find communities button. If needed, modify the Congressional District number for each community by entering the updated number under the U.S. Congressional District column for that community. When finished, click the Continue button. NOTE: You should also notify your State NFIP coordinator so that the updated U.S. Congressional District number can be updated in the Community Information System (CIS) database.

Community name	County code	CID number	CRS community	CRS rating	U.S. Congressional District
BALTIMORE, CITY OF	510	240087	Y	5	2,3,7

Please provide any additional comments below (optional).

The Maryland Institute for Emergency Medical Services Systems (MIEMSS) oversees and coordinates all components of Maryland's statewide Emergency Medical Services (EMS) system. This includes planning, operations, evaluation, and research. MIEMSS provides leadership and medical direction, conducts and supports EMS educational programs, operates and maintains a statewide communications system, designates trauma and specialty centers, licenses and regulates commercial ambulance services, and participates in EMS-related public education and prevention programs. MIEMSS headquarters, located at 653 West Pratt Street, serves as the operational hub for many of the critical programs that support Maryland's EMS system. While nearly 585,000 patients directly interact with Maryland's EMS system each year, the work coordinated through MIEMSS ultimately benefits more than six million Maryland residents and millions of annual visitors by ensuring a reliable, coordinated, and resilient emergency medical and public health response system capable of responding to both everyday emergencies and large-scale disasters. Among the essential functions housed at MIEMSS is the Emergency Medical Resource Center (EMRC), which connects EMS clinicians in the field with hospital-based medical consultation. Each day, approximately 20,000 licensed EMS clinicians depend on EMRC for real-time medical consultation. In Calendar Year 2024, this vital resource averaged more than 500 medical consultations each day, totaling 201,883 consultations for the year. These consultations are 201,883 Marylanders who required advanced medical directives in the field prior to arrival at a fixed medical facility for continual care. More than 49 Base Station Hospitals rely on EMRC to receive advance notification of critically ill or injured patients, provide online medical direction to EMS clinicians, and maintain a

redundant communications pathway for hospital status notifications. Additionally, SYSCOM Helicopter Communications is housed at MIEMSS headquarters. All medevac helicopters transporting patients to or from medical facilities within Maryland are required to communicate with SYSCOM, ensuring the safe and coordinated movement of critically ill and injured patients throughout the state. MIEMSS also serves as the State Coordinating Function #8 (Public Health and Medical) Co-Lead under Maryland's emergency management framework. Coordination of statewide public health and medical assets occurs primarily within the agency's Department Operations Center (DOC), which functions similarly to an Emergency Operations Center (EOC). During major incidents, the DOC coordinates healthcare resources, EMS operations, hospital system collaboration, patient movement, and medical resource allocation that directly protect Maryland's healthcare infrastructure and the residents who depend upon it. The headquarters has repeatedly demonstrated its ability to rapidly adapt to emerging public health and emergency response needs. During the COVID-19 pandemic, multiple conference rooms were converted into emergency coordination spaces to support statewide response operations. The agency also transformed its second-floor conference center into a Continuity of Operations (COOP) vaccination clinic for essential State of Maryland employees. At its peak, more than 250 essential employees were vaccinated each day, helping maintain the continuity of critical government services during an unprecedented public health emergency. Following completion of the COOP vaccination mission, MIEMSS deployed public health teams from its headquarters to vessels arriving at the Port of Baltimore to vaccinate international ship crews entering the United States.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Mitigation plan

Please provide your plan information below.

Is the Subapplicant entity that will benefit from the proposed activity covered by the current FEMA approved multi-hazard mitigation plan in compliance with 44 CFR Part 201? **Yes**

Please provide plan detail

Plan name	Plan type	Plan approval date
2021 State Hazard Mitigation Plan	State Multi-Hazard Mitigation Plan (Standard)	08/21/2021

Proposed activity description

The 2021 update to the State's Hazard Mitigation Plan again re-affirms the state's commitment to continual improvements to its statewide mitigation strategy and program.

Please provide any additional comments below (optional).

The proposed project directly correlates to Maryland State Hazard Mitigation Plan actions 29, 34, and 35. Hazard Mitigation Action 29 (Page 216) Encourage and support innovative mitigation and planning projects by state agencies and at local levels, by leveraging both FEMA and non-FEMA funding sources Hazard Mitigation Action 34 (Page 216) Evaluate new and existing state and local government buildings, critical facilities, and infrastructure for solar potential. Prioritize these based on their

ability to sustain safe, clean, efficient, and reliable backup solar power systems aligned with location and site characteristics, fuel supply availability, and operational needs. Hazard Mitigation Action 35 (Page 317) Eliminate or minimize disruption of local government operations caused by natural hazards by enhancing the resilience of identified critical infrastructure, critical facilities, institutions, and services; by adopting a framework for valuing distributed energy resource costs and benefits; and by installing new microgrid systems that include photovoltaic (PV) solar power systems or other sources for local power generation.

Attachments

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Scope of work

The project Scope of Work (SOW) identifies the eligible activity, describes what will be accomplished and explains how the mitigation activity will be implemented. The mitigation activity must be described in sufficient detail to verify the cost estimate. All activities for which funding is requested must be identified in the SOW prior to the close of the application period. FEMA has different requirements for project, planning and management cost SOWs.

Subapplication title (include type of activity and location)

MIEMSS HQ Energy Resilience Project

Activities

Primary activity type

Evaluate facilities to identify mitigation actions

Secondary activity type (Optional)

Develop or conduct engineering, environmental, feasibility and/or benefit cost analyses

Tertiary activity type (Optional)

Activities supporting development of applications

Geographic areas description

653 West Pratt Street, Baltimore, MD 21201

Community lifelines

Primary community lifeline

Health and medical

Primary sub-community lifeline

Public health

Secondary community lifeline (optional)

Safety and security

Secondary sub-community lifeline

Fire service

Tertiary community lifeline (optional)

Safety and security

Tertiary sub-community lifeline

Government service

Hazard sources

Primary hazard source

Infrastructure failure

Secondary hazard source (optional)

Tertiary hazard source (optional)

How will the mitigation activity be implemented?

The proposed mitigation activity is the hiring of an established engineering firm to evaluate the energy resiliency of MIEMSS Headquarters located at 653 West Pratt Street, Baltimore, MD 21201. The firm would be hired to evaluate current backup power generation located on-site, identify additional sources of readily-available commercial power, and make recommendations for backup power generation at MIEMSS HQ. The engineering firm will develop several recommendations for MIEMSS to consider to enhance energy resilience for future implementation. The engineering firm will also support the technical drawings and design of proposed recommendations. These recommendations will be packaged specifically for future BRIC grant applications and other funding opportunities for implementation.

What is the scope of work of the proposal? Will it result in a complete project application for future funding opportunities?

This grant project supports energy resilience enhancement at the Maryland Institute for Emergency Medical Services Systems (MIEMSS) Headquarters in Baltimore, MD. MIEMSS oversees Maryland's EMS system, including planning, operations, and medical communication services. The headquarters houses the EMS Preparedness & Operations Division, which manages critical systems such as: - Emergency Medical Resource Center (EMRC)**: 24/7 medical channel radio system linking EMS clinicians with hospital-based medical consultants, vital for incident response and medevac communications. - Maryland Emergency Medical Resource Alerting Database (MEMRAD)**: Tracks resources and alerts EMS and healthcare partners statewide. - Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE)**: Monitors EMS patient encounter data for epidemic detection. The division also manages high-consequence infectious disease (HCID) planning, PPE distribution during pandemics, critical incident stress management, and National Disaster Medical System preparedness. Continuous, reliable energy is crucial for these operations to ensure uninterrupted EMS services across Maryland. Project Objectives: Assess Current Energy Infrastructure | Evaluate the existing systems, including backup power and performance history. Identify Resilience Opportunities

| Explore strategies like renewable energy integration, microgrids, and storage solutions. Engage Stakeholders | Collaborate with facility management, utilities, emergency managers, and healthcare partners. Develop Preliminary Energy Resilience Plan | Recommend enhancements with cost estimates and funding sources. Align with FEMA BRIC Requirements | Ensure compliance with the FY 2024 BRIC Notice of Funding Opportunity.

Project Tasks and Deliverables

Project Kickoff | Initial meeting to set timelines and responsibilities. Infrastructure Assessment | Site visits and system evaluations documented in a report. Resilience Strategy Development | Analyze and prioritize mitigation strategies. Stakeholder Engagement | Gather input through workshops and interviews. Preliminary Energy Resilience Plan | Draft and finalize a plan with strategic recommendations. Final Presentation and Report | Share findings and submit documentation for future funding applications.

Project Narrative The project will explore energy resilience options for MIEMSS, including partnerships with utility providers and increased energy integration. It will assess technical and financial feasibility for diverse backup systems, including traditional generators and hybrid configurations. Engineering designs for the most viable options will align with FEMA Continuity of Operations best practices.

Budget Considerations:

Personnel for assessments and stakeholder engagement

Equipment for infrastructure analysis

Travel and logistics for site visits

Report production materials

Key Personnel

Project Manager | Todd Tracey

Facilities Manager | Sherry Alban

Project Sponsor | Randy Linthicum

Technical Consultant | To be hired post-award

Performance Measurement - Timely completion of infrastructure assessment - Effective stakeholder engagement - Delivery of a comprehensive energy resilience plan

Conclusion

The project will provide a foundation for future energy resilience efforts at MIEMSS, supporting applications for FEMA BRIC funding and contributing to Maryland's broader climate adaptation and hazard mitigation goals.

Who will manage and complete the mitigation activity?

The management and completion of the mitigation activity will be a collaborative effort involving several key roles and responsibilities, as outlined in the scope of work. The following individuals and entities will oversee and execute the project:

- 1. Project Manager (MIEMSS/Todd Tracey)** The Project Manager will oversee the entire mitigation activity from initiation through final reporting. Responsibilities include: Coordinating tasks across all phases of the project. Ensuring adherence to the project timeline and milestones. Serving as the primary point of contact for stakeholders, contractors, and regulatory agencies. Monitoring compliance with FEMA requirements, including the completion of the Benefit-Cost Analysis (BCA) and integration of solar potential assessments as per the Maryland Hazard Mitigation Plan.
- 2. Facility Manager (MIEMSS/Sherry Alban)** The Facility Manager will provide site-specific knowledge and facilitate access to the building for assessments and data collection. Responsibilities include: Assisting with the identification of critical loads and operational requirements. Supporting on-site inspections during Phase 1: Data Collection and Site Assessment. Collaborating with engineers to ensure the design options align with facility needs and operational practices.
- 3. Consulting Engineers and Contractors (Professional Services)** Professional services for the feasibility study and design will be procured through the Maryland Department of General Services (DGS) procurement process. Responsibilities include: Conducting technical analyses to assess power demand and system requirements. Developing design options, including renewable energy solutions and microgrid systems. Performing the BCA using FEMA's BCA Toolkit to validate cost-effectiveness. Ensuring designs comply with applicable standards, including NFPA 110, NEC, and EPA regulations.
- 4. Project Sponsor (MIEMSS/Randy Linthicum)** The Project Sponsor will provide strategic oversight and high-level direction for the project. Responsibilities include: Reviewing and approving project deliverables. Ensuring alignment with organizational goals and funding requirements. Authorizing procurement activities for professional services related to the feasibility study. Collaboration with State Agencies

The project

team will collaborate with relevant state agencies, including the Maryland Department of Emergency Management (MDEM) and Maryland DGS, to ensure compliance with state-level mitigation strategies and funding guidelines. This includes engaging with these agencies during the funding application process and adhering to corrective actions outlined in the Maryland Hazard Mitigation Plan. Oversight and Reporting Regular status updates will be provided to key stakeholders to maintain transparency and address any challenges during implementation. The final report, developed in Phase 5: Reporting and Recommendations, will be presented to senior officials and funding partners to document findings, alternatives, and recommended actions. In summary, the Project Manager will lead the mitigation activity, supported by facility staff, engineering consultants, state agency representatives, and the project sponsor, ensuring a coordinated, compliant, and effective implementation of the backup power generation project.

What are you doing to consider other risks in the project area?

To consider other risks in the project area, the project incorporates a comprehensive risk assessment throughout the feasibility and design phases. The following strategies are included to identify, analyze, and mitigate potential risks: **Site Assessment and Data Collection:** Conduct thorough on-site inspections to identify vulnerabilities related to natural hazards (e.g., flooding, earthquakes, extreme weather events) and infrastructure conditions. Review historical incident data and existing hazard mitigation plans to understand past events and potential threats. **Risk Analysis During Feasibility Study:** Evaluate potential risks associated with different power generation options, including operational, environmental, and regulatory risks. Analyze the impacts of natural disasters on fuel storage, equipment locations, and electrical connections. **Regulatory and Environmental Compliance:** Assess environmental factors, such as air quality and emissions, particularly when considering fuel types like diesel or natural gas. Ensure compliance with FEMA, EPA, and local codes to mitigate regulatory and environmental risks. **Infrastructure and System Resilience:** Identify

infrastructure weaknesses that could impact generator performance during an emergency. Propose design options that enhance resilience, such as elevated equipment placement to mitigate flood risks or redundant systems for critical operations. **Benefit-Cost Analysis (BCA):** Utilize FEMA's BCA Toolkit to evaluate the cost-effectiveness of risk mitigation strategies. Include potential risk factors in the analysis to ensure long-term reliability and resilience. **Risk Management Plan:** Develop a risk management plan that outlines potential threats, their impact on project success, and strategies for mitigation. Engage stakeholders in the planning process to gather insights on local risks and ensure the proposed solutions align with community resilience objectives. By integrating these activities into the project scope, the project team ensures a holistic approach to risk management, enhancing the overall effectiveness and sustainability of the backup power generation system.

Is there an estimate for when the mitigation activity will take place?

The estimated timeline for the mitigation activity follows a structured plan, with key phases outlined in the scope of work. Based on the feasibility study and design process, the project is anticipated to span 14 weeks. The phases are as follows: Phase 1: Data Collection and Site Assessment (3 weeks) Site inspections, review of electrical systems, and documentation of critical loads. Phase 2: Feasibility Analysis (4 weeks) Power demand analysis, evaluation of power generation options, risk assessment, and completion of FEMA-compliant Benefit-Cost Analysis (BCA). Phase 3: Conceptual Design (3 weeks) Development of conceptual designs and analysis of infrastructure requirements. Phase 4: Cost Estimates and Budgeting (2 weeks) Cost estimation, lifecycle cost analysis, and identification of potential funding sources. Phase 5: Reporting and Recommendations (2 weeks) Preparation and presentation of the final report with recommendations and design options. **State Government Procurement Phase** Before the project can commence, the procurement of professional services for the feasibility study and design services will be conducted in accordance with the Maryland Department of General Services

(DGS) guidelines. This procurement phase will include:

Development and issuance of a solicitation, such as a Request for Proposal (RFP) or Request for Qualifications (RFQ), to engage qualified professional firms to conduct the feasibility study and design work. Evaluation of proposals based on criteria such as technical expertise, relevant experience, and cost-effectiveness. Selection and contract award following Maryland DGS procurement policies, ensuring transparency, competition, and compliance with applicable state procurement regulations.

Projected Timeline The procurement phase for professional services is expected to take approximately 6 to 10 weeks, depending on the complexity of the solicitation and the volume of responses received. Once a contract is awarded, the feasibility study and design work will begin immediately, with the full scope of work anticipated to take 14 weeks. In summary, the procurement of professional services will precede the technical phases of the project, with an expected start-to-completion timeframe of approximately 5 to 7 months, inclusive of the procurement phase, feasibility study, and design activities.

What alternatives will be considered?

Several alternatives will be considered during the feasibility and design phases of the backup power generation project to ensure optimal performance, cost-effectiveness, and reliability. The evaluation of alternatives will be conducted in Phase 2: Feasibility Analysis and Phase 3: Conceptual Design, as outlined in the scope of work. The alternatives include:

1. Power Generation Options

Diesel Generators: Known for reliability and availability during emergencies. Considerations include fuel storage, emissions compliance, and maintenance requirements.

Natural Gas Generators: Offer continuous fuel supply through utility connections, reducing onsite storage needs. Regulatory considerations related to pipeline availability and environmental impacts will be analyzed.

Renewable Energy Solutions (e.g., Solar with Battery Storage): Evaluated for long-term sustainability and reduced carbon footprint. Key factors include storage capacity, system reliability, and feasibility for critical infrastructure backup.

2. Fuel Source Alternatives

On-site Fuel Storage: Assessment of

storage capacity, permitting requirements, and potential risks related to fuel degradation or leakage. Utility-Connected Gas Lines: Evaluated for feasibility based on infrastructure availability and reliability, particularly during widespread emergencies. Hybrid Systems: Consideration of multiple fuel sources to enhance system resilience and operational flexibility. 3. Equipment and System Design Options Centralized Generator System: One or more large generators supporting the entire facility. Simplicity in design but requires robust infrastructure for distribution. Distributed Generation: Multiple smaller generators serving distinct areas or critical systems. This alternative may enhance redundancy and reduce single points of failure. Modular/Scalable Systems: Designs that allow for future expansion if facility power demands increase. 4. Installation and Location Alternatives Outdoor Installations: Evaluated for space availability, weather protection, and security requirements. Indoor or Rooftop Installations: Considered if outdoor space is limited or security is a primary concern. Structural load-bearing capacity will be analyzed for rooftop options. Elevated/Protected Installations: If the facility is in a flood-prone area, elevated platforms or protective enclosures will be considered to mitigate risks. 5. Operational and Maintenance Strategies Manual vs. Automatic Transfer Switches: Evaluation of systems that can automatically detect outages and initiate backup power generation. Remote Monitoring Capabilities: Consideration of systems equipped with remote monitoring to facilitate proactive maintenance and quicker response times. Decision-Making Criteria The selection of alternatives will be based on the following factors: Reliability and Resilience: Ability to support critical operations without failure. Cost-Effectiveness: Results of the FEMA-compliant Benefit-Cost Analysis (BCA) using the BCA Toolkit. Regulatory Compliance: Adherence to local, state, and federal codes, including FEMA, EPA, and NFPA 110 standards. Sustainability and Environmental Impact: Evaluation of renewable energy options and emissions considerations. Operational Practicality: Ease of maintenance, operational simplicity, and compatibility with existing infrastructure. The final report,

Do activities being considered align with hazard mitigation plan?

delivered in Phase 5: Reporting and Recommendations, will present these alternatives along with their respective benefits, risks, costs, and feasibility findings, providing stakeholders with a comprehensive analysis to support informed decision-making.

The scope of work for the backup power generation feasibility and design project aligns closely with the corrective actions outlined in the Maryland Hazard Mitigation Plan, particularly with Actions #29, #34, and #35. The following describes how each corrective action is integrated into the project framework:

Alignment with Corrective Action #29: "Encourage and support innovative mitigation and planning projects by state agencies and at local levels, by leveraging both FEMA and non-FEMA funding sources." **Task Integration:** The project includes a comprehensive feasibility analysis (Phase 2) that evaluates various power generation options, including innovative approaches such as renewable energy and hybrid systems. **Funding Strategy:** During Phase 4: Cost Estimates and Budgeting, the project team will identify and evaluate potential funding sources beyond FEMA, including state-level programs and public-private partnerships. The feasibility study will explore opportunities to leverage federal, state, and local funding to maximize project viability. **BCA Compliance:** The use of FEMA's Benefit-Cost Analysis (BCA) Toolkit ensures that the project adheres to best practices in cost-effectiveness evaluation, making it eligible for FEMA and other funding sources that require validated cost-benefit metrics.

Alignment with Corrective Action #34: "Evaluate new and existing state and local government buildings, critical facilities, and infrastructure for solar potential. Prioritize these based on their ability to sustain safe, clean, efficient, and reliable backup solar power systems aligned with location and site characteristics, fuel supply availability, and operational needs." **Renewable Energy Feasibility:** In Phase 2: Feasibility Analysis, the team will assess the potential for solar photovoltaic (PV) systems with battery storage as a backup power solution. The analysis will consider factors such as solar availability, site orientation, structural capacity for rooftop installations, and compatibility with existing

infrastructure. Prioritization Criteria: The project will evaluate solar power systems based on reliability, sustainability, and potential to reduce greenhouse gas emissions. Critical facilities with high operational requirements and favorable site characteristics will be prioritized. **Operational Sustainability:** Conceptual design alternatives developed in Phase 3 will include PV systems where feasible, with considerations for fuel supply, operational needs, and alignment with Maryland's clean energy goals. **Alignment with Corrective Action #35:** "Eliminate or minimize disruption of local government operations caused by natural hazards by enhancing the resilience of identified critical infrastructure, critical facilities, institutions, and services; by adopting a framework for valuing distributed energy resource costs and benefits; and by installing new microgrid systems that include photovoltaic (PV) solar power systems or other sources for local power generation." **Resilience Focus:** The project prioritizes the resilience of critical infrastructure by identifying critical loads and developing design options that enhance system redundancy and reliability. The Phase 2 risk assessment will specifically evaluate vulnerabilities related to natural hazards such as floods, severe weather, and grid disruptions. **Microgrid Evaluation:** The conceptual design phase will explore microgrid configurations that integrate PV solar power systems and distributed energy resources (DERs). This aligns with the action's focus on distributed energy frameworks to minimize operational disruptions. **Valuation Framework:** The cost analysis in Phase 4 will incorporate a lifecycle cost perspective, comparing the benefits of microgrid systems with traditional backup generation to support informed decision-making and potential adoption of distributed energy solutions. **Conclusion:** The scope of work is designed to address these corrective actions by fostering innovative and sustainable backup power solutions, prioritizing solar potential, and enhancing infrastructure resilience. Through FEMA-compliant analysis, multi-source funding strategies, and a focus on distributed energy resources, the project supports Maryland's strategic objectives for hazard mitigation and infrastructure resilience.

Additional comments (optional)

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
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Schedule

Specify the work schedule for the mitigation activities.

Add tasks to the schedule

Please include all tasks necessary to implement this mitigation activity; include descriptions and estimated time frames.

Task Name MIEMSS Begins Procurement of Professional Services	Start Month 4	Task Duration (in Months) 3 months
	Task Description Execute sub-award agreement and hold kick-off meeting with MDEM. Procurement of professional services to assist with project scoping will begin with key personnel from executive leadership and finance at MIEMSS.	
Task Name Data Collection and Site Assessment	Start Month 6	Task Duration (in Months) 2 months
	Task Description	

Once professional services firm is onboard, site inspections, review of electrical systems, and documentation of critical loads will begin.

Task Name

Feasibility Analysis

Start Month

8

Task Duration (in Months)

2 months

Task Description

Power demand analysis, evaluation of power generation options, risk assessment, and completion of FEMA-compliant Benefit Cost Analysis (BCA)

Task Name

Conceptual Design

Start Month

10

Task Duration (in Months)

2 months

Task Description

Development of conceptual design and analysis of infrastructure requirements.

Task Name

Cost Estimates and Budgeting

Start Month

12

Task Duration (in Months)

2 months

Task Description

Cost estimation, lifecycle cost analysis, and identification of potential funding sources

Task Name

Reporting and Recommendations

Start Month

14

Task Duration (in Months)

2 months

Task Description

Preparation and presentation of the final report with recommendations and design options.

Task Name

Grant Closeout w/MDEM

Start Month

16

Task Duration (in Months)

3 months

Task Description

Close out grant process with MDEM.

Task Name

Kick Off Meeting with MDEM

Start Month

1

Task Duration (in Months)

3 months

Task Description

Grant kick off meeting with the Maryland Department of Emergency Management

Estimate the total duration of your proposed activities (in months).

14**Proposed project start and end dates**

Start Date

2026-10-01

End Date

2028-01-31

Budget

Budget cost estimate and management cost (optional) should directly link to your scope of work and work schedule. You must add at least one item(s) greater than \$0 for your cost estimate. Once you have added item(s) for your cost estimate, you may then add the item(s) for management cost (optional). As necessary, please adjust your federal/non-federal cost shares and add the non-federal funding source(s) you are planning to use this project. Once you have completed this section, please click the Continue button at the bottom of this page to navigate to the next section.

Add budget cost types and item(s)

Click the Add cost type button below to add cost type cost estimate and then click the Add item(s) button to add the item(s) for the cost estimate. After adding items to your cost estimate, you may then select Add cost type button again to add management costs (optional) and applicable items.

Grand total: \$66,800.00

Budget type: Non construction

►	Cost type: Cost estimate	\$66,800.00
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Program income (optional)

Cost share

Cost share or matching means the portion of project costs not paid by federal funds.

Proposed federal vs. non-federal funding shares

Hazard Mitigation Assistance (HMA) funds may be used to pay up to 75% federal share of the eligible activity costs. For Building Resilient Infrastructure and communities (BRIC), small impoverished communities may be eligible for up to 90% federal share. For Flood Mitigation Assistance (FMA), and severe repetitive loss (SRL) properties may be eligible for up to 100% federal share. Repetitive loss (RL) properties may be eligible for up to 90% federal share.

Cost estimate

Is this a small impoverished community? ⓘ This determines your federal/non-federal		% Percentage	\$ Dollar amount
	Proposed federal share	75.00	50100.00

share ratio. No	Proposed non-federal share	25.00	16700.00
			Based on total budget cost: \$66,800.00

Non-federal funding sources here

That portion of the total costs of the program provided by the non-federal entity in the form of in-kind donations or cash match received from third parties or contributed by the agency. In-kind contributions must be provided and cash expended during the project period along with federal funds to satisfy the matching requirements.

Funding source	% Non-federal share by source	Funding amount
► Funding source: State of Maryland General Operating Funds	100.00%	\$16,700.00

Additional comments.

Attachments

Filename	Date uploaded	Uploaded by	Label	Description	Action
BRIC FY25 Cost Share Letter.pdf	06/25/2026	todd.tracey1@maryland.gov	Budget Attachments	No description given.	

Cost-effectiveness

How was cost-effectiveness determined for this project?

☒ Not applicable

Please explain why this project is not applicable.

This is a project scoping project.

Please provide any additional comments below (optional).

Attachments

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Evaluation

Is the applicant participating in the [Community Rating System \(CRS\)](#)? **Yes**

Select rating. **5**

Is the applicant a [Cooperating Technical Partner \(CTP\)](#)? **No**

Was this application generated from a previous FEMA HMA Advance Assistance or Project Scoping award or any other federal grant award, or the subapplicant is a past recipient of Building Resilient Infrastructure and Communities (BRIC) non-financial Direct Technical Assistance? **No**

Has the applicant adopted building codes consistent with the [international codes](#)? **No**

Have the applicant's building codes been assessed on the [Building Code Effectiveness Grading Schedule \(BCEGS\)](#)? **No**

Describe involvement of partners to enhance the mitigation activity outcome.

Additional comments (optional)

Attachments

Stakeholder engagement is a critical component of the Energy Resilience Project Scoping Activity for the Maryland Institute for Emergency Medical Services Systems (MIEMSS). The process involves collaboration with various internal and external partners to ensure the successful development and implementation of energy resilience strategies for the MIEMSS headquarters. Objectives of Stakeholder Engagement

- 1. Collaboration with Key Partners** - Facility management personnel - Local utility providers - Emergency management officials - Healthcare system representatives
- 2. Information Gathering and Integration:** - Collecting insights from stakeholders to understand existing infrastructure vulnerabilities. - Integrating feedback into the energy resilience planning process.
- 3. Alignment with Community Resilience Goals:** - Ensuring the project aligns with broader community resilience strategies. - Adhering to FEMA BRIC program guidelines for hazard mitigation.

Engagement Activities:

- **Workshops and Interviews:** Interactive sessions with stakeholders to discuss current challenges and potential solutions.
- **Collaborative Planning Meetings:** Regularly scheduled meetings to track project progress and incorporate feedback.
- **Feedback Documentation:** Recording stakeholder input systematically for inclusion in the Preliminary Energy Resilience Plan.

Expected Outcomes:

- Enhanced understanding of existing energy infrastructure and potential improvements.
- Identification of feasible energy resilience strategies based on practical insights.
- Strengthened partnerships with critical infrastructure and public safety stakeholders.

Stakeholder engagement ensures the project not only meets its technical objectives but also reflects the practical, operational, and community-based insights necessary for successful implementation.

Filename	Date uploaded	Uploaded by	Label	Description	Action

Comments & attachments

▶ Community	1 comment, 0 attachments
▶ Mitigation plan	1 comment, 0 attachments
▶ Scope of work	0 comments, 0 attachments
▶ Budget	0 comments, 1 attachment
▶ Cost-effectiveness	0 comments, 0 attachments
▶ Evaluation	0 comments, 0 attachments

Assurances and certifications



Signed by SAR:

Todd Tracey on 07/03/2026

OMB number: 4040-0007, Expiration date: 02/28/2025 [View burden statement](#)

SF-424B: Assurances - Non-Construction Programs

OMB Number: 4040-0007
Expiration Date: 02/28/2025

Certain of these assurances may not be applicable to your project or program. If you have any questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.
3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.

8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).
12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

