

**CITY COUNCIL**

**The City of Orange Township, New Jersey**

DATE June 5, 2024

NUMBER 314-2024

**TITLE: RESOLUTION AUTHORIZING THE SUBMISSION OF AN APPLICATION TO THE NEW JERSEY BOARD OF PUBLIC UTILITIES FOR THE COMMUNITY ENERGY PLAN IMPLEMENTATION (CEPI) GRANT PROGRAM FOR \$250,000.00**

**WHEREAS**, a sustainable community seeks to ensure that its environmental, economic, and social objectives are balanced and mutually supportive; and

**WHEREAS**, the City of Orange Township strives to assure clean land, air and water for current and future generations; and

**WHEREAS**, New Jersey’s 2019 Energy Master Plan: Pathway to 2050 (“EMP”) established that community-level action is necessary to achieve the state’s goal of 100% clean electricity by 2050; and

**WHEREAS**, the New Jersey Board of Public Utilities has created a Community Energy Plan Implementation Grant Program for municipalities to implement initiatives identified in their Community Energy Plan (“CEP”) or a plan equivalent to a CEP that has been approved by municipal resolution (“Equivalent Plan”); and

**WHEREAS**, the Community Energy Plan Implementation (“CEPI”) Grant Program will help the City of Orange Township to invest in (1) purchasing alternative fuel / electric vehicles for the municipality, (2) purchasing and installing public electric vehicle charging infrastructure, and (3) upgrading energy efficiency in municipal facilities, and to work toward a better environment for all residents by using the state’s EMP as a guide to develop sustainable strategies that increase clean energy production, reduce energy use, and cut emissions; and

**WHEREAS**, the City Council of the City of Orange Township has determined that the City of Orange Township should apply for the aforementioned CEPI Grant Program; and

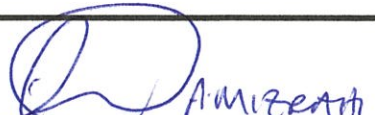
**WHEREAS**, the City of Orange Township will commit to providing staff support for the duration of the Community Energy Plan Implementation Grant process, including seeking utility, state, or other available funding to combine with funding requested under the CEPI Grant Program.

**NOW, THEREFORE, BE IT RESOLVED**, that the City of Orange Township Municipal Council approves the submission of an application to the New Jersey Board of Public Utilities for the Community Energy Plan Implementation Grant Program, and authorizes the Mayor or his designee to complete and / execute the required grant agreement(s).

**Adopted:**

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**Joyce L. Lanier**  
Municipal Clerk

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**Tency A. Eason**  
Council President

  
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**New Jersey Board of Public Utilities (NJ BPU)  
2024 Community Energy Plan Implementation (CEPI) Grant Program**

**RESOLUTION SUMMARY**

The 2024 New Jersey Board of Public Utilities (NJ BPU) Community Energy Plan Implementation (CEPI) Grant Program supports municipalities to fund implementation of projects identified in their Community Energy Plan (CEP) to meet the goals of the state's Energy Master Plan. New Jersey's Energy Master Plan: Pathway to 2050 (EMP) established that community-level action is necessary to achieve the state's goal of 100% clean energy by 2050.

The CEPI Grant Program will help municipalities implement energy resilience, renewable energy, and energy efficiency projects that will provide a better environment for all residents. By using the state's EMP as a guide, CEPI Grant Program grantees will work to implement sustainable strategies that increase clean energy production, reduce energy use, and cut emissions.

This is Program Year 1 of the CEPI Grant Program. This program is designed to support municipalities in implementing high-priority, high-impact, practical, and cost-effective municipal projects supporting energy resilience, renewable energy, and energy efficiency.

The deadline for the submission of the application to this program is Friday, May 24, 2024.

The City Department of Planning and Development is in the process of submitting an application to the CEPI program to invest in (1) purchasing alternative fuel / electric vehicles for the municipality, (2) purchasing and installing public electric vehicle charging infrastructure, and (3) upgrading energy efficiency in municipal facilities, and to work toward a better environment for all residents by using the state's EMP as a guide to develop sustainable strategies that increase clean energy production, reduce energy use, and cut emissions.

All projects will take place within the City of Orange Township, NJ, 07050. The estimated total project cost is not to exceed \$250,000.00, of which the Department of Planning and Development is requesting the full amount from the NJ BPU CEPI Grant Program.

The application requires a board approved resolution of support from the applicant. At this time, the Department of Planning and Development is requesting that the City of Orange Township Council pass a resolution in support of the above-referenced project as part of the grant application process.



**NJ Board Public Utilities (NJ BPU)  
Community Energy Plan Implementation (CEPI) Grant Program**

The City of Orange Township  
Application Outline

Project 1: EV Charging Station

**Project Title:** *Short Title for the Project*

Orange CEPI 2024 Public Electric Vehicle (EV) Charging Station Project

**Brief Project Description:** *Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 paragraph)*

The City of Orange Township plans to add public electric vehicle (EV) Chargers to an identified public lot located centrally in the City, 24 South Center Street next to the Department of Public Works lot in Orange, NJ. The EV Charging infrastructure consists of a ChargePoint CT4021 EV Charge Station with Dual Port Bollard Mount, as well as clear signage, and safety and accessibility features, for public use. The City expects multiple benefits from the outcome of the project, including popular use of EV charging by members of the public, increased demand for EV charging in the City, and improved incentives for members of the public to transition to electric vehicles, reducing emissions in Orange and as part of the State’s 2050 emissions reductions goal.

**Project Maturity:** *Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation.*

*Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It’s important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.*

*Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.*

The *Orange CEPI 2024 Public Electric Vehicle (EV) Charging Stations Project* is outlined in the City’s Community Energy Plan as “Initiative 1.6: Installing Public EV Charging Infrastructure.” The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning and design, as well as acquiring all proper permits, rights, and access to potential EV charging station sites.

The project parameters are outlined within the work plan of the City’s Community Energy Plan, which has been adopted by the City Council. The completion of the public EV charging station installation project at the 24 South Center Street public lot will allow City planners to monitor and evaluate indicators of success, as well as areas of improvement, which will be utilized for future public EV charging station projects.

The City of Orange Township – Application Outline  
NJ BPU – Community Energy Plan Implementation (CEPI) Grant Program

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The City is in possession of preliminary construction cost estimates for the project, and upon award of funding, will be able to initiate all necessary purchasing and construction activities to carry out the project within the timeline outlined in the City’s Community Energy Plan. The preliminary construction cost estimate is attached to this application as a PDF attachment.

The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. The City is able to leverage an additional \$5,000 for the public EV charger using available incentives through the NJ BPU Clean Fleet Program as well.

**Scope of work:** *List of activities to be undertaken using grant funding, including training of personnel, if applicable.*

The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary work activities to ensure efficiently conducted construction and installation of public EV charger at the project site of 24 South Center Street in Orange. As outlined in the City’s Community Energy Plan, the DPW will conduct an initial site evaluation to ensure that adequate electricity is available at the site, and to ensure that EV chargers will have dedicated circuits and electricity supply.

The anticipated scope of work outlined in the preliminary construction cost estimate is attached and is briefly summarized as follows:

- Topographical survey and base plan preparation;
- Concrete base for EV charging station;
- 3” PVS SCH 40 conduit for EV charging station;
- Purchase and installation of ChargePoint CT 4021 EV Charge Station;
- Service connection to EV station;
- Initial and regular software updates, host support, and charging session data and analytics monitoring;
- Professional services cost.

**Schedule of activities (Timeline):** *The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period.*

The anticipated timeline of activities for the *Orange CEPI 2024 Public Electric Vehicle (EV) Charging Stations Project* is approximately 12-months, as outlined in the City’s Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchase and construction elements of the project.

The City is prepared to organize all required documentation in order to submit regular reporting to the NJ BPU per grant guidelines. The preliminary project schedule is outlined below:

Quarter 1 report:

- Months 1-2: Receive award and execute grant agreement;
- Months 2-3: Finalize design and plans for EV charging stations;

Quarter 2 report:



- Months 3-6: Purchase and procurement phase;

Quarter 3 report:

- Months 6-9: Materials delivery and installation phase;

Quarter 4 report:

- Months 9-12: Finalization of project and site cleanup;
- Month 12: Project and grant close out. Final grant report submitted to the NJ BPU.

**Project Sustainability:** If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. Additionally, the City is able to leverage \$5,000 for the public EV charger using available incentives through the NJ BPU Clean Fleet Program.

Once the project is complete, the public EV charging station and site will be maintained by the City's Department of Public Works (DPW). All costs associated with maintenance activities will fall under the operations costs for the DPW, provided through the municipal budget. In the long-term, the City will be able to expand public EV charging through future projects around the City, which can be funded through other existing opportunities like the NJ DEP's It Pay\$ to Plug In, and other State EV charging station incentives.

Success of the project will be measured by the installation of the public charging station, and subsequent use by members of the public. Charging session data analytics will be recorded and analyzed by City Planners in order to monitor the effectiveness of the public EV charging station, and will help guide future installation of EV charging stations for the public.

**Innovation and Replicability:** Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdiction into the future.

The *Orange CEPI 2024 Public Electric Vehicle (EV) Charging Stations Project* is in alignment with the New Jersey State Energy Master Plan (EMP), which outlines key strategies to reach the State's goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 1: Reducing Energy Consumption and Emissions from the Transportation Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.

By installing the first public EV chargers in the City, the project will serve as a roadmap for future projects and as a catalyst for continued action as the City contributes to the transition to a clean decarbonized future. Once the project is complete and in place for the public, demand for subsequent sites is projected to increase for greater expansion of public EV chargers.

Not only do the strategies outlined in the State EMP help guide carbon emissions reductions at the local level, they also encourage municipal level impact on the energy supply in a way that is consistent with economic, climate, and societal demands. Thus, the outlined projects in Orange's Community Energy Plan are both environmentally and economically feasible, sustainable, scalable, and ultimately, replicable.

The City Community Energy Plan was formed with extensive consultation and collaboration between the City and the NJ BPU Clean Energy Program as well as the Sustainable Jersey Guide for Sustainable Energy Communities and Community Energy Plan Workplan Template. The process involved meetings and working sessions to select and prioritize projects with the lowest cost yet highest impacts to support environmentally and economically sound initiatives. As such, the outlined projects are innovative and scalable in order to accommodate the abilities of the City.



**Project 2: Purchase of Electric Vehicle (EV) Light Duty Truck for Municipal Fleet**

**Project Title:** *Short Title for the Project*

Orange CEPI 2024 Purchase of Electric Vehicle (EV) Ford F-150 Lightning Class 2b Pickup Truck for Municipal Fleet Project

**Brief Project Description:** *Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 paragraph)*

The City of Orange Township plans to purchase an EV Ford F-150 Lightning Class 2b Pickup Truck for City’s municipal fleet. The vehicle will replace an existing diesel pickup truck used by the City DPW which will be selected based on the fleet inventory. As the current DPW lot has no EV charging infrastructure, the purchase of the EV will coincide with the installation of charging infrastructure for the vehicle (project 3). The City expects multiple benefits from the outcome of this project, including reduced emissions from the municipal vehicle fleet and increased awareness of and support for EVs to support clean energy initiatives in Orange to support the State’s 2050 emissions reductions goal.

**Project Maturity:** *Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation.*

*Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It’s important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.*

*Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.*

The *Orange CEPI 2024 Purchase of Electric Vehicle (EV) Ford F-150 Lightning Class 2b Pickup Truck for Municipal Fleet Project* is outlined in the City’s Community Energy Plan as “Initiative 1.4: Purchase Alternative Fuel Vehicles.” The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning as well as organizing the fleet inventory, selecting fossil-fuel vehicles to replace, and reviewing procurement logistics to acquire new EVs.

The project parameters are outlined within the work plan of the City’s Community Energy Plan, which has been adopted by the City Council. The completion of the EV purchase project will allow City planners to monitor and evaluate indicators of success, as well as areas of improvement, which will be utilized for future EV purchasing and acquisitions. As a class 2b pickup truck, the Ford F-150 Lightning will qualify for an identified \$10,000 in additional incentives through the NJ BPU Clean Fleet Program.

The City is in review of multiple procurement methods for the EV Ford F-150 Lightning Class 2b Pickup Truck, and upon award of funding, will be able to initiate all necessary purchasing and acquisition activities to carry out the project within the timeline outlined in the City’s Community Energy Plan. The

City is in also currently in possession of a purchasing cost estimate for the EV Ford F-150 Lighting Class 2b Pickup Truck which is attached to this application as a PDF attachment.

**Scope of work:** *List of activities to be undertaken using grant funding, including training of personnel, if applicable.*

The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary activities to ensure efficiently conducted purchase and acquisition of the EV Ford F-150 Lighting Class 2b Pickup Truck for the DPW in Orange. As outlined in the City’s Community Energy Plan, the DPW has conducted an initial review of the municipal fleet to identify fossil fuel vehicles that are in need of replacement. The DPW has also identified a location within the DPW lot to install EV charging infrastructure to support new EV vehicles added to the fleet (project 3).

The City will leverage all available procurement methods to purchase EVs for the municipal fleet as well as tax incentives and other available funding incentives through New Jersey State, Federal sources, and public utilities to decrease the costs of the new purchase. Available procurement methods which were reviewed include:

- New Jersey State Purchasing Contract and Purchasing Cooperatives
- Fleet Vehicle Leasing
- Direct Purchase
- Service Contracting / Shared Services

**Schedule of activities (Timeline):** *The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period.*

The anticipated timeline of activities for the *Orange CEPI 2024 Purchase of Electric Vehicle (EV) Light Duty Truck for Municipal Fleet Project* is approximately 12-months, as outlined in the City’s Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchase and acquisition of the EV light duty truck as outlined in the project.

The City is prepared to organize all required documentation to submit regular reporting to the NJ BPU per grant guidelines. The preliminary project schedule is outlined below:

Quarter 1 Report:

- Months 1-2: Receive award and execute grant agreement;
- Months 2-3: Final review of EV Pickup Truck purchasing options and price quotes;

Quarter 2 Report:

- Months 3-6: Purchase and procurement phase;

Quarter 3 Report:

- Months 6-9: EV Pickup Truck vehicle delivery and onboarding phase;

Quarter 4 Report:

- Months 9-12: Finalization of project and regular use of vehicle;
- Month 12: Project and grant close out. Final grant report submitted to the NJ BPU.



**Project Sustainability:** If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. Once the project is complete, the EV Ford F-150 Lightning Class 2b Pickup Truck will be maintained by the City's Department of Public Works (DPW). All costs associated with maintenance activities will fall under the operations costs for the DPW, provided through the municipal budget. In the long-term, the City will be able to expand the EV DPW vehicles within the municipal fleet through future projects, which can be funded through other existing opportunities like the NJBPU Clean Fleets Electric Vehicle Incentive Program, NJEDA Zero-Emission Incentive Program, and other state and federal EV incentives and tax deductions.

Success of the project will be measured by the purchase of the first EV added to municipal fleet, as well as reduced fossil fuel use and reduced emissions from the municipal fleet. Usage and vehicle mileage data will be recorded and analyzed by City Planners and the DPW to monitor the effectiveness of the EV Ford F-150 Lightning Class 2b Pickup Truck, and will help guide future acquisition of EVs for the municipal fleet.

**Innovation and Replicability:** Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdiction into the future.

The *Orange CEPI 2024 Purchase of Electric Vehicle (EV) Ford F-150 Lightning Class 2b Pickup Truck for Municipal Fleet Project* is in alignment with the New Jersey State Energy Master Plan (EMP), which outlines key strategies to reach the State's goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 1: Reducing Energy Consumption and Emissions from the Transportation Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.

By purchasing the first EV for the City's municipal fleet of vehicles, this project will serve as a guide for future EV projects and as a catalyst for continued action as the City contributes to the transition to a clean decarbonized future. Once the project is complete and in place, support for subsequent EVs for the municipal fleet is projected to increase. The project will help set the process for transitioning the municipal fleet to EVs in line with State emissions reductions goals.

Not only do the strategies outlined in the State EMP help guide carbon emissions reductions at the local level, they also encourage municipal level impact on the energy supply in a way that is consistent with economic, climate, and societal demands. Thus, the outlined projects in Orange's Community Energy Plan are both environmentally and economically feasible, sustainable, scalable, and ultimately, replicable.

The City Community Energy Plan was formed with extensive consultation and collaboration between the City and the NJ BPU Clean Energy Program as well as the Sustainable Jersey Guide for Sustainable Energy Communities and Community Energy Plan Workplan Template. The process involved meetings and working sessions to select and prioritize projects with the lowest cost yet highest impacts to support environmentally and economically sound initiatives. As such, the outlined projects are innovative and scalable in order to accommodate the abilities of the City.



Project 3: Fleet EV Charging Station

**Project Title:** *Short Title for the Project*

Orange CEPI 2024 Municipal Fleet Electric Vehicle (EV) Charging Station Project

**Brief Project Description:** *Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 paragraph)*

The City of Orange Township plans to add Electric Vehicle (EV) Chargers to the Department of Public Works (DPW) lot, which holds most of the DPW vehicles in Orange, NJ. The Municipal Fleet EV Charging infrastructure associated with the project consists of a ChargePoint CT4021 EV Charge Station with Dual Port Bollard Mount, as well as clear signage, and safety and accessibility features. The City expects multiple benefits from the outcome of this project, including reduced emissions from the municipal vehicle fleet and increased awareness of and support for EVs to support clean energy initiatives in Orange to support the State’s 2050 emissions reductions goal.

**Project Maturity:** *Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation.*

*Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It's important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.*

*Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.*

The Orange CEPI 2024 Municipal Fleet Electric Vehicle (EV) Charging Station Project is outlined in the City’s Community Energy Plan as “Initiative 1.4: Purchase Alternative Fuel Vehicles.” The project is contingent on the completion of the City’s acquisition of an EV Ford F-150 class 2b Pickup Truck (project 2), but will have a useful lifespan and capacity to support other EVs the City plans to add to the municipal fleet.

The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning and design, as well as acquiring all proper permits, rights, and access to potential EV charging station sites. The completion of the charging station installation project at the DPW municipal lot will allow City planners to monitor and evaluate indicators of success, as well as areas of improvement, which will be utilized for future EV charging station projects as well as future EV purchasing and acquisitions for the municipal fleet.

The City is in possession of preliminary construction cost estimates for the project, and upon award of funding, will be able to initiate all necessary purchasing and construction activities to carry out the project within the timeline outlined in the City’s Community Energy Plan. The preliminary construction cost estimate is attached to this application as a PDF attachment.



The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. The City is able to leverage an additional \$4,000 for the municipal EV charger using available incentives through the NJ BPU Clean Fleet Program as well.

**Scope of work:** *List of activities to be undertaken using grant funding, including training of personnel, if applicable.*

The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary work activities to ensure efficiently conducted construction and installation of municipal fleet EV chargers at the project site of the DPW lot in Orange. As outlined in the City’s Community Energy Plan, the DPW will conduct an initial site evaluation to ensure that adequate electricity is available at the site, and to ensure that municipal fleet EV chargers will have dedicated circuits and electricity supply.

The anticipated scope of work outlined in the preliminary construction cost estimate is attached and is briefly summarized as follows:

- Topographical survey and base plan preparation;
- Concrete base for EV charging station;
- 3” PVS SCH 40 conduit for EV charging station;
- Purchase and installation of ChargePoint CT 4021 EV Charge Station;
- Service connection to EV station;
- Initial and regular software updates, host support, and charging session data and analytics monitoring;
- Professional services cost.

**Schedule of activities (Timeline):** *The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period.*

The anticipated timeline of activities for the *Orange CEPI 2024 Municipal Fleet Electric Vehicle (EV) Charging Station Project* is approximately 12-months, as outlined in the City’s Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchase and construction elements of the project.

The City is prepared to organize all required documentation in order to submit regular reporting to the NJ BPU per grant guidelines. The preliminary project schedule is outlined below:

Quarter 1 report:

- Months 1-2: Receive award and execute grant agreement;
- Months 2-3: Finalize design and plans for Municipal Fleet EV charging station;

Quarter 2 report:

- Months 3-6: Purchase and procurement phase;

Quarter 3 report:

- Months 6-9: Materials delivery and installation phase;

Quarter 4 report:

- Months 9-12: Finalization of project and site cleanup;

- Month 12: Project and grant close out. Final grant report submitted to the NJ BPU.

**Project Sustainability:** If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. The City is able to leverage an additional \$4,000 for the municipal fleet EV charger using available incentives through the NJ BPU Clean Fleet Program as well.

Once the project is complete, the EV charging station and site will be maintained by the City's DPW. All costs associated with maintenance activities will fall under the operations costs for the DPW, provided through the municipal budget. In the long-term, the City will be able to expand municipal fleet EV charging through future projects on other municipal property, which can be funded through other existing opportunities like the NJ DEP's It Pay\$ to Plug In, and other State EV charging station incentives.

Success of the project will be measured by the installation of the municipal fleet EV charging station, and subsequent use by the DPW for the EV Ford F-150 Lighting Class 2b Pickup Truck (project 2). Charging session data analytics will be recorded and analyzed by City Planners in order to monitor the effectiveness of the EV charging station, and will help guide future installation of EV charging stations for the municipal fleet as well as future purchasing of addition EVs for the municipal fleet.

**Innovation and Replicability:** Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdiction into the future.

The *Orange CEPI 2024 Municipal Fleet Electric Vehicle (EV) Charging Stations Project* is in alignment with the New Jersey State Energy Master Plan (EMP), which outlines key strategies to reach the State's goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 1: Reducing Energy Consumption and Emissions from the Transportation Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.

By installing the first municipal fleet EV charger in the City, the project will serve as a roadmap for future projects and as a catalyst for continued action as the City contributes to the transition to a clean decarbonized future. Once the project is complete and in place, support for subsequent EVs for the municipal fleet is projected to increase. The project will help set the process for transitioning the municipal fleet to EVs in line with State emissions reductions goals.

Not only do the strategies outlined in the State EMP help guide carbon emissions reductions at the local level, they also encourage municipal level impact on the energy supply in a way that is consistent with economic, climate, and societal demands. Thus, the outlined projects in Orange's Community Energy Plan are both environmentally and economically feasible, sustainable, scalable, and ultimately, replicable.

The City Community Energy Plan was formed with extensive consultation and collaboration between the City and the NJ BPU Clean Energy Program as well as the Sustainable Jersey Guide for Sustainable Energy Communities and Community Energy Plan Workplan Template. The process involved meetings and working sessions to select and prioritize projects with the lowest cost yet highest impacts to support



environmentally and economically sound initiatives. As such, the outlined projects are innovative and scalable in order to accommodate the abilities of the City.

Project 4: Energy Efficiency Upgrades to Municipal Buildings

**Project Title:** *Short Title for the Project*

Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project

**Brief Project Description:** *Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 paragraph)*

The City of Orange Township plans to upgrade energy efficiency in multiple municipal facilities in order to reduce carbon emissions, increase cost-savings, and promote a sustainable future within the City. As outlined in the City’s Community Energy Plan, the City will implement multiple building retrofitting projects and energy efficiency upgrades. The City expects numerous benefits from the outcome of the project, including annual energy savings and increased emissions reductions in Orange which will contribute to the State’s 2050 emissions reductions goal.

**Detailed Project Description:** Any project that reduces GHGs is eligible

In 2021, the City of Orange Township was awarded a Local Government Energy Audit (LGEA) through the New Jersey Clean Energy Program (NJ CEP). The audit was complete in late 2021, and includes an inventory of all energy-consuming equipment, comprehensive utility bill analysis, facility benchmarking, and a cost/benefit analysis for energy conservation measures (ECMs) identified and recommended in order to reduce expenses as well as carbon emissions, in line with New Jersey State Energy Master Plan (EMP).

The LGEA was conducted through site visits and analysis of a number of municipal buildings, and a review of current systems and existing conditions, as well as utility consumption. Each municipal building included the categorical review lighting systems, HVAC and mechanical systems, plug load equipment, electric consumption and costs, and natural gas consumption and costs. The LGEA concludes with an outline and assessments of different energy conservation measures (ECMs) within these categorical costs, as well as their impact on the estimated cost savings and CO2 emissions reductions.

The LGEA sorts out the recommended cost effective ECM opportunities into a single table, which may be found on pages 12, 13, and 14 in the City’s LGEA attached to this application as a PDF. The specific cost effective ECMs which the City is pursuing through the NJ BPU – CEPI Program are outlined within the scope of work of the subsequent project narratives.

**Project Details:** Estimated population size to benefit from the project, estimated impact on energy usage and/or GHG emissions reductions, estimated co-benefits (health, equity, economic impacts)

The scope of benefits the project will have includes the entirety of the City of Orange Township, as the energy conservation measures (ECMs) outlined within the project will work to reduce costs and reduce emissions in the identified municipal buildings. These cost savings will be passed onto all residents, businesses, and patrons of the City, through the municipal budget. The co-benefits of reduced emissions usage have a greater impact on urban populations, like Orange, which historically deal with worse air



quality, heat-island effects which are exacerbated by climate change, and less capacity to upgrade systems and facilities to meet recommended sustainability standards.

The Local Government Energy Audit LGEA sorts out the recommended cost effective ECM opportunities into a single table, which may be found on pages 12, 13, and 14 in the City’s LGEA attached to this application as a PDF. Of the cost effective opportunities which the City is pursuing in this project, the total estimated materials and labor cost is \$309,359. The total estimated annual energy cost savings of the measures is \$57,432, meaning that the projects would pay for themselves and then provide surplus savings returns in just over 5 years. Further, the total estimated CO2 emissions reductions of the projects is 489,090lbs. The total estimated annual electric savings is 318,091 kWh, total estimated peak demand savings is 66.2 kW, and total estimated annual fuel savings is 1,441.4 MMBtus.

**Project Maturity:** *Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation.*

*Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It’s important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.*

*Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.*

The *Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project* is outlined in the City’s Community Energy Plan as “Initiative 3.1: Upgrade Energy Efficiency in Municipal Facilities.” The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning, as well as acquiring all proper permits, rights, and access in order to properly implement building retrofitting projects.

The project parameters are outlined within the work plan of the City’s Community Energy Plan, which has been adopted by the City Council. The completion of the building upgrades will help reduce energy use and emissions while increasing annual energy savings across the municipal building portfolio. The City is in possession of preliminary project materials and labor cost estimates for the various municipal building upgrades, and upon award of funding, will be able to initiate all necessary planning, purchasing, procurement, and contracting activities to carry out the project within the timeline outlined in the City’s Community Energy Plan. The City’s Local Government Energy Audit (LGEA) outlined all recommended cost effective energy conservation measures (ECM) opportunities into a single table, including the estimated project materials and labor cost estimates, which may be found on pages 12, 13, and 14 in the City’s LGEA attached to this application as a PDF.

The LGEA also outlines \$38,699 in materials and labor cost savings by utilizing previously identified estimated state rebate programs, and other incentive opportunities like New Jersey’s Clean Energy Program as well as potential electric and natural gas utility incentive programs.

**Scope of work:** *List of activities to be undertaken using grant funding, including training of personnel, if applicable.*

The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary work activities to ensure grant funding can be immediately and effectively used for various activities outlined within the *Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project*.

As outlined in the City’s Community Energy Plan, the Department of Planning will conduct initial project evaluations to ensure project viability and to prepare the different sites for construction and installation activities. A number of sites are proposed for project activities, including: the Municipal Court Complex, City Hall, Fire Department Station, Public Works Office, and Public Works Warehouse, among other potential municipal buildings / sites for future projects.

The City’s Local Government Energy Audit (LGEA) outlined all recommended cost effective energy conservation measures (ECM) opportunities into a single table, including the estimated project materials and labor cost estimates, which may be found on pages 12, 13, and 14 in the City’s LGEA attached to this application as a PDF. The project outlines and anticipated scope of work is outlined and is briefly summarized as follows:

- Installation of LED Fixtures;
- Installation of LED Exit Signs;
- Retrofitting of Fluorescent Fixtures with LED Lamps and Drivers;
- Retrofitting of Fixtures with LED Lamps;
- Installation of Occupancy Sensor Lighting Controls;
- Installation of Daylight Dimming / Photocell Controls;
- Installation of High / Low Lighting Controls;
- Installation of Premium Efficiency Motors;
- Installation of VFDs on Constant Volume (CV) Fans
- Installation of VFDs on Process Pumps
- Installation of High Efficiency PTAC / PTHP;
- Installation of Infrared Heaters;
- Installation of Programmable Thermostats;
- Installation of Occupancy Controlled Thermostats;
- Installation of Pipe Insulation;
- Installation of Tankless Water Heater;
- Installation of Low-Flow DHW Devices;
- Installation of Vending Machine Controls;
- Construction and Retrofitting of Building Envelope Improvements;
- And more potential building efficiency improvements for future consideration.

**Schedule of activities (Timeline):** *The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period.*

The anticipated timeline of activities for the *Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project* is approximately 18-months, as outlined in the City’s Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchasing and contracting elements of the project.



The City is prepared to organize all required documentation in order to submit regular reporting to the NJ BPU per grant guidelines. The preliminary project schedule is outlined below:

Year 1, Quarter 1 Report:

- Months 1: Receive award and execute grant agreement;

Year 1, Quarter 1 Report and Quarter 2 Report:

- Months 1-3: Finalize design and planning for municipal building efficiency upgrades;

Year 1, Quarter 2 Report and Quarter 3 Report:

- Months 3-9: Solicitation of work to be conducted, and purchase, procurement, and contracting phase;

Year 1, Quarter 4 Report:

- Months 9-12: Materials delivery, construction, and installation phase;

Year 2, Quarter 1 Report and Quarter 2 Report:

- Months 12-18: Completion, finalization of project and construction cleanup;

Year 2, quarter 2 Report:

- Month 18: Project and grant close out. Final grant report submitted to the NJ BPU.

**Project Sustainability:** If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

The project capital and construction costs will be supported through the NJ BPU CEPI grant opportunity. Once the project is complete, the energy efficiency upgrades within the municipal buildings will be maintained by the City's Department of Public Works (DPW). All costs associated with maintenance activities will fall under the operations costs for the DPW, provided through the municipal budget. In the long-term, the City will be able to expand continued energy efficiency and cost saving upgrades and measure, which will be funded and supported through the municipal budget and other existing opportunities like New Jersey's Clean Energy Program, and electric and natural gas utilities offers incentive programs that guide municipalities through the upgrade process.

Success of the project will be measured by the successful installation and retrofitting of the identified municipal buildings. Energy use and cost-savings data and analytics will be recorded and analyzed by City Planners in order to monitor the effectiveness of the building efficiency upgrades, and will help guide and support future energy efficiency upgrades to municipal buildings across the City.

**Innovation and Replicability:** Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdiction into the future.

The *Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project* is in alignment with the New Jersey State Energy Master Plan (EMP), which outlines key strategies to reach the State's goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 3: Maximizing Energy Efficiency and Conservation, and Reducing Peak Demand; Strategy 4: Reducing Energy Consumption and Emissions from the Building Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.

By completing the construction and installation of energy efficiency upgrades to various municipal buildings within the City, this project will serve as a guide for future energy efficiency projects and as a catalyst for continued action as the City contributes to the transition to a clean decarbonized future. Once the project is complete and in place, support for additional cost-savings and emissions reductions projects is projected to increase. The project will also help set the process for transitioning more outdated infrastructure within the City to upgraded, efficient and sustainable measures, in line with NJ emissions reductions goals.

Not only do the strategies outlined in the State EMP help guide carbon emissions reductions at the local level, they also encourage municipal level impact on the energy supply in a way that is consistent with economic, climate, and societal demands. Thus, the outlined projects in Orange’s Community Energy Plan are both environmentally and economically feasible, sustainable, scalable, and ultimately, replicable.

The City Community Energy Plan was formed with extensive consultation and collaboration between the City and the NJ BPU Clean Energy Program as well as the Sustainable Jersey Guide for Sustainable Energy Communities and Community Energy Plan Workplan Template. The process involved meetings and working sessions to select and prioritize projects with the lowest cost yet highest impacts to support environmentally and economically sound initiatives. As such, the outlined projects are innovative and scalable in order to accommodate the abilities of the City.



## Community Energy Plan Implementation Grant Application Workbook

### Applicant Information

<b>Municipality</b>	The City of Orange Township	<b>County</b>	Essex County
<b>Mailing Address</b>	29 North Day Street	<b>Zip code</b>	zip 07050
<b>Mayor</b>	Dwayne D Warren	<b>Phone</b>	973-952-6101
<b>Email Address</b>	dwarren@orangenj.gov		
<b>Primary Contact for the Community Energy Plan project:</b>			
<b>First Name</b>	Chris	<b>Last Name</b>	Mobley
<b>Email</b>	cmobley@orangenj.gov	<b>Phone</b>	973-952-6070
<b>Fiscal Point of Contact (please note if same as above):</b>			
<b>First Name</b>	Nile	<b>Last Name</b>	Clements
<b>Email</b>	nclements@orangenj.gov	<b>Phone</b>	973-952-6113
<b>Municipal Vendor ID #</b>	Tax ID: 226002178		
<b>Consultant (if applicable):</b>			
<b>Name</b>			
<b>Role</b>			
<b>Point of contact name</b>			
<b>Email</b>		<b>Phone</b>	

## A. Project Summary

### Municipality, County

The City of Orange Township, Essex County, New Jersey

### Project Title: Short title for the project

Orange CEPI 2024 Public Electric Vehicle (EV) Charging Station Project

### Brief Project Description: Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 Paragraph)

The City of Orange Township plans to add public electric vehicle (EV) Chargers to an identified public lot located centrally in the City, 24 South Center Street next to the Department of Public Works lot in Orange, NJ. The EV Charging infrastructure consists of a ChargePoint CT4021 EV Charge Station with Dual Port Bollard Mount, as well as clear signage, and safety and accessibility features for public use. The City expects multiple benefits from the outcome of the project, including popular

### Is this project included in the municipality's adopted Community Energy Plan?

NOTE: Only one project not included in a Municipalities community energy plan will be eligible for funding.

Yes

BPU

Completes:

## Project Type

Up to 45 points may be awarded for the type of project being submitted. Applicants have two options:

- Preselected Projects, Select from among the list of pre-selected project types with assigned point levels in Section B
- Custom Project: Submit a custom project -- points will be awarded based on the responses in Section C

### Select the project type from the drop-down list below

Pre-selected Projects -- Complete Section B

## B. Pre-selected Projects (up to 45 points) *Note: Only complete section B if you selected the pre-selected project type.*

### Select a pre-selected project type from the drop-down list below

Public EV charging [35 point]



**C. Custom Projects (up to 45 points)** *Note: Only complete section C if you selected the custom project type.*

**For custom projects, provide a detailed project description**

Any project that has a meaningful impact on GHG emissions reductions is eligible.

Eligible custom projects include, but are not limited to:

- land use (to reduce VMT in transportation sector)
- outreach campaigns
- microgrids
- energy storage
- emerging technologies
- municipally-controlled fund for implementing energy efficiency upgrades on residential/commercial projects
- other innovative projects with significant GHG reduction potential

**Provide a detailed project description below.**



**SECTION C CANNOT BE FILLED AS YOU HAVE SELECETED PRE-SELECTED PROJECTS. PLEASE FILL SECTION B.**

**Expected Custom Project Impact**

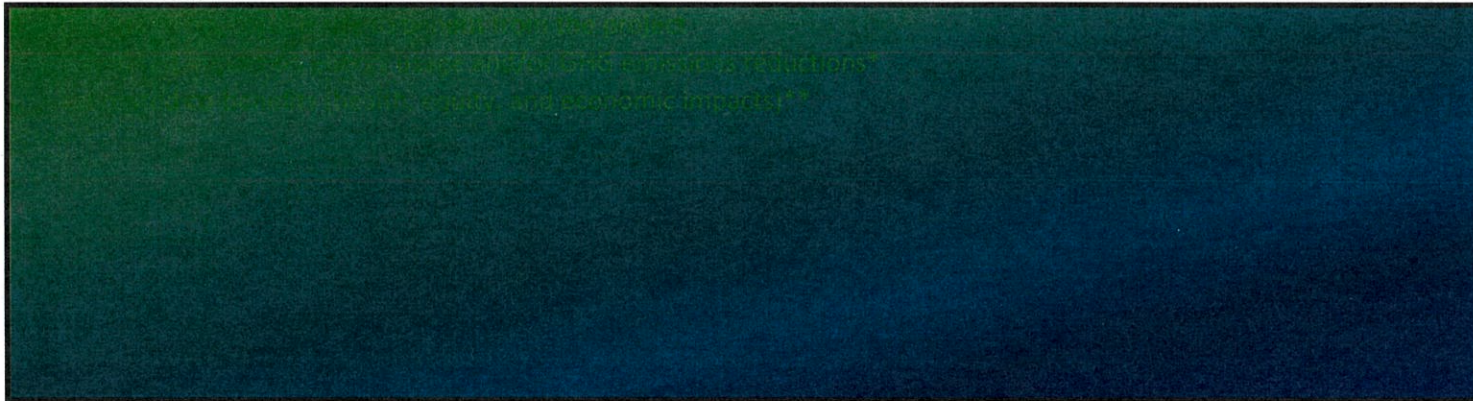
Provide details on the following impacts:

- estimated population size to benefit from the project
- estimated impact on energy usage and/or GHG emissions reductions\*
- estimated co-benefits (health, equity, and economic impacts)\*\*

*\* Provide the justification and rationale for the impact of the project on energy consumption and GHG emissions. It is not required to provide detailed quantitative estimates of energy and GHG impact (for example, specific data is not available for some types of projects such as outreach campaigns). However, more detail and stronger justification will be scored higher.*

*\*\* It is not required to provide detailed quantitative estimates of co-benefits. However, detailed and stronger justifications will be scored higher.*

**Please provide the project details for the items listed above:**



**SECTION C CANNOT BE FILLED AS YOU HAVE SELECETED PRE-SELECTED PROJECTS. PLEASE FILL SECTION B.**

BPU	
Completes:	
Points	



**Project Maturity: (Up to 15 points)**

Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation. Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It's important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.

Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.

**The Orange CEPI 2024 Public Electric Vehicle (EV) Charging Stations Project is outlined in the City's Community Energy Plan as "Initiative 1.6: Installing Public EV Charging Infrastructure." The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning and design, as well as acquiring all proper permits, rights, and access to potential EV charging station sites.**

**The project parameters are outlined within the work plan of the City's Community Energy Plan, which has been adopted by the City Council. The completion of the public EV charging station installation project at the 24 South Center Street public lot will allow City planners to monitor and evaluate indicators of success, as well as areas of improvement, which will be utilized for future public EV charging station projects.**

**Scope of work:** List of activities to be undertaken using grant funding, including training of personnel, if applicable

**The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary work activities to ensure efficiently conducted construction and installation of public EV charger at the project site of 24 South Center Street in Orange. As outlined in the City's Community Energy Plan, the DPW will conduct an initial site evaluation to ensure that adequate electricity is available at the site, and to ensure that EV chargers will have dedicated circuits and electricity supply.**

**Total project duration:**

12 months

**Schedule of activities (Timeline):** The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period. If you are attaching a file, please list the file name below. Please name for files following the convention *<municipal\_name.project#.timeline.2024.pdf>*

The anticipated timeline of activities for the Orange CEPI 2024 Public Electric Vehicle (EV) Charging Stations Project is approximately 12-months, as outlined in the City's Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchase and construction elements of the project.

The City is prepared to organize all required documentation in order to submit regular reporting to the NJ BPU per grant

List the name (s) of supporting documents (quotes, studies, etc.) for this project that are attached to the application packet below. Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

Orange.project1.EV\_Charger\_Quote.2024

**Local Priority:** (Up to 10 points)

Municipalities may identify one project (on a multi-project proposal) as their top priority and it will receive 10 points. Indicate here if this project is your top priority.

Yes

**Project Sustainability:** (Up to 5 points)

If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. Additionally, the City is able to leverage \$5,000 for the public EV charger using available incentives through the NJ BPU Clean Fleet Program.

**Innovation and Replicability:** (Up to 5 points)

Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdictions into the future.

BPU  
Completes:

BPU  
Completes:

BPU  
Completes:



Energy Master Plan (EMP), which outlines key strategies to reach the State’s goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 1: Reducing Energy Consumption and Emissions from the Transportation Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.

BPU  
Completes:

**Likelihood of Success:** (Up to 10 points)

Strength of project team, capacity of applicant to be able to implement or sustain the project past the grant funding. For planning projects - possibility of implementation of project after completion of study phase.

BPU  
Completes:

**E. Project Team**

<b>Project Lead</b>	
<b>Name (First Last)</b>	Chris Mobley
<b>Email Address</b>	cmobley@orangenj.gov
<b>Phone</b>	973-952-6079
<b>Qualifications/ Areas of Expertise:</b>	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
<b>Title/Organization:</b>	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
<b>Time commitment</b>	40 hours per month

<b>Other Key Personnel</b>	
<b>Name (First Last)</b>	Marty Mayes
<b>Email Address</b>	mmayes@orangenj.gov
<b>Phone</b>	973-952-6081
<b>Role</b>	DPW Director
<b>Qualifications/ Areas of Expertise:</b>	Director, Department of Public Works, The City of Orange Township
<b>Time commitment</b>	40 hours per month

<b>Other Key Personnel</b>	
<b>Name (First Last)</b>	Carnell E. Townes
<b>Email Address</b>	ctownes@orangenj.gov
<b>Phone</b>	973-952-6079
<b>Role</b>	DPW Superintendent
<b>Qualifications/Areas of Expertise:</b>	Superintendent of Public Properties, Department of Public Works, The City of Orange Township
<b>Time commitment</b>	40 hours per month

<b>Consultant (optional) **</b>	
<b>Name of firm</b>	
<b>Role</b>	
<b>Name (First Last)</b>	
<b>Email Address</b>	
<b>Phone</b>	

<b>Partner (optional) **</b>	
<b>Name of firm</b>	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
<b>Role</b>	
<b>Name (First Last)</b>	
<b>Email Address</b>	
<b>Phone</b>	

<b>Partner (optional) **</b>	
<b>Name of firm</b>	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
<b>Role</b>	
<b>Name (First Last)</b>	
<b>Email Address</b>	
<b>Phone</b>	

<b>Partner (optional) **</b>	
<b>Name of firm</b>	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
<b>Role</b>	
<b>Name (First Last)</b>	



<b>Email Address</b>	
<b>Phone</b>	

\*\* Please provide copies of agreements between the applicant and partners, consultants, sub-recipients, if applicable.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

## F. Estimated Project Cost and Sources of Funds

Funding will not be provided for projects where other non-competitive federal, state, or public utility sources are available.

If other funding sources are available for the project, the municipality may submit an application to fund all, or a portion of the costs of a project to be covered by the other funding sources.

		Name of program
<b>Total estimated project cost</b>		<b>\$61,955.00</b>
Applicant's contribution		<b>\$0.00</b>
Utility Program grants or incentives*	NJ BPU Clean Fleet Program Incentives	<b>\$5,000.00</b>
State funding sources (such as NJCEP, NJDEP)**		<b>\$0.00</b>
Federal funding (such as EECBG Formula Grants, USDOT, etc.)**		<b>\$0.00</b>
Other (non-State or non-Federal) funding sources***		
<b>CEPI Grant Program funds requested</b>		<b>\$56,955.00</b>

\* Details of utility grants or incentives (such as Direct Install, ESIP, etc.):

\*\* Details of state or federal funding (NJCEP, EECBG Formula Grant, etc.):

\*\*\* Details of other non-State or non-Federal funding sources:

The applicant must provide details of the other funding sources as attachments, and list them in the box below.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

Orange.project1.EV\_Charger\_Incentives.2024

## G. Budget Template

### A. Estimated Salary, wages, stipends and fringe benefits:



Name	Title	Hours/Rate	CEPI Grant funds	Other funding Sources	Total Cost
N/A	N/A	N/A	\$ -	\$ -	\$ -
					\$ -
					\$ -
<b>Total Salaries</b>			\$ -	\$ -	\$ -

**B. Estimated Subcontractors/Consultant Costs:**

Subcontractor/ Consultant	Role in Project	Period of Performance	CEPI Grant funds	Other funding Sources	Total Cost
Engineer - Estimated Professional Services Cost	Consulting Engineer	12 months	\$ 12,400.00	\$ -	\$ 12,400.00
					\$ -
					\$ -
<b>Total Subcontractor/Consultant Cost</b>			\$ 12,400.00	\$ -	\$ 12,400.00

**C. Estimated Itemized Equipment:**

Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
Construction Cost Estimate - Parking Lot #1 EV charging Station (ChargePoint CT4021 EV Charge Station with Dual Port Bollard Mount) in the City of Orange Township	please see attached preliminary project cost estimates and anticipated scope of work	please see attached preliminary project cost estimates and anticipated scope of work	\$ 44,555.00	\$ 5,000.00	\$ 49,555.00
					\$ -
					\$ -
<b>Total Equipment Cost</b>			\$ 44,555.00	\$ 5,000.00	\$ 49,555.00

**D. Estimated Itemized Supplies:**



Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
N/A	N/A	N/A	\$ -	\$ -	\$ -
					\$ -
					\$ -
<b>Total Supplies Cost</b>			\$ -	\$ -	\$ -

**E. Estimated Other Itemized Expenses:**

Item	Justification	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
N/A	N/A	N/A	\$ -	\$ -	\$ -
					\$ -
					\$ -
<b>Total Supplies Cost</b>			\$ -	\$ -	\$ -

<b>Total Proposed Budget</b>			\$ 56,955.00	\$ 5,000.00	\$ 61,955.00
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**A. Project Summary**

**Municipality, County**

The City of Orange Township, Essex County, New Jersey

**Project Title:** Short title for the project

Orange CEPI 2024 Purchase of Electric Vehicle (EV) Ford F-150 Lightning Class 2b Pickup Truck for Municipal Fleet Project

**Brief Project Description:** Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 Paragraph)

The City of Orange Township plans to purchase an EV Ford F-150 Lightning Class 2b Pickup Truck for City's municipal fleet. The vehicle will replace an existing diesel pickup truck used by the City DPW which will be selected based on the fleet inventory. As the current DPW lot has no EV charging infrastructure, the purchase of the EV will coincide with the installation of charging infrastructure for the vehicle (project 3). The City expects multiple benefits from the outcome of this project.

**Is this project included in the municipality's adopted Community Energy Plan?**

NOTE: Only one project not included in a Municipalities community energy plan will be eligible for funding.

Yes

BPU  
Completes:

**Project Type**

Up to 45 points may be awarded for the type of project being submitted. Applicants have two options:

- Preselected Projects, Select from among the list of pre-selected project types with assigned point levels in Section B
- Custom Project: Submit a custom project -- points will be awarded based on the responses in Section C

**Select the project type from the drop-down list below**

Pre-selected Projects -- Complete Section B

**B. Pre-selected Projects (up to 45 points) Note: Only complete section B if you selected the pre-selected project type.**

**Select a pre-selected project type from the drop-down list below**

Fleet EV purchase (Class 1-2) [25 points]



**C. Custom Projects (up to 45 points)** *Note: Only complete section C if you selected the custom project type.*

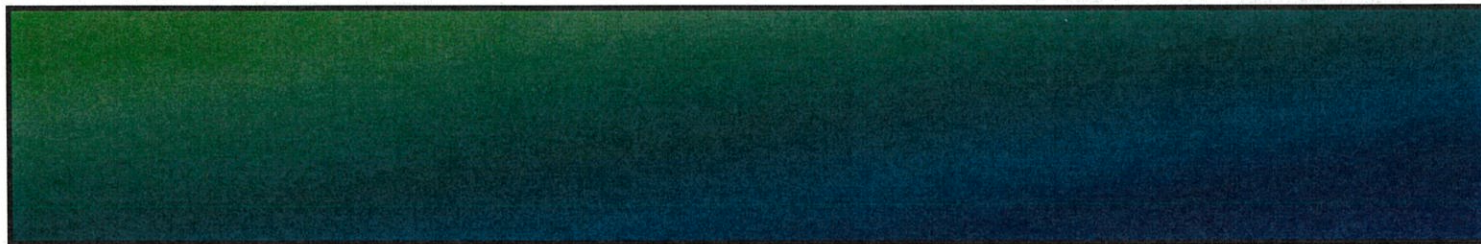
**For custom projects, provide a detailed project description**

Any project that has a meaningful impact on GHG emissions reductions is eligible.

Eligible custom projects include, but are not limited to:

- land use (to reduce VMT in transportation sector)
- outreach campaigns
- microgrids
- energy storage
- emerging technologies
- municipally-controlled fund for implementing energy efficiency upgrades on residential/commercial projects
- other innovative projects with significant GHG reduction potential

**Provide a detailed project description below.**



**SECTION C CANNOT BE FILLED AS YOU HAVE SELECETED PRE-SELECTED PROJECTS. PLEASE FILL SECTION B.**

**Expected Custom Project Impact**

Provide details on the following impacts:

- estimated population size to benefit from the project
- estimated impact on energy usage and/or GHG emissions reductions\*
- estimated co-benefits (health, equity, and economic impacts)\*\*

*\* Provide the justification and rationale for the impact of the project on energy consumption and GHG emissions. It is not required to provide detailed quantitative estimates of energy and GHG impact (for example, specific data is not available for some types of projects such as outreach campaigns). However, more detail and stronger justification will be scored higher.*

*\*\* It is not required to provide detailed quantitative estimates of co-benefits. However, detailed and stronger justifications will be scored higher.*

**Please provide the project details for the items listed above:**



**SECTION C CANNOT BE FILLED AS YOU HAVE SELECETED PRE-SELECTED PROJECTS. PLEASE FILL SECTION B.**

BPU	
Completes:	
Points	



**Project Maturity: (Up to 15 points)**

Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation. Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It's important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.

Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.

**The Orange CEPI 2024 Purchase of Electric Vehicle (EV) Ford F-150 Lightning Class 2b Pickup Truck for Municipal Fleet Project is outlined in the City’s Community Energy Plan as “Initiative 1.4: Purchase Alternative Fuel Vehicles.” The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning as well as organizing the fleet inventory, selecting fossil-fuel vehicles to replace, and reviewing procurement logistics to acquire new EVs.**

**The project parameters are outlined within the work plan of the City’s Community Energy Plan, which has been adopted by the City Council. The completion of the EV purchase project will allow City planners to monitor and evaluate indicators of success, as well as areas of improvement, which will be utilized for future EV purchasing and acquisitions. As a class 2b pickup truck, the Ford F-150 Lightning will qualify for an identified \$10,000 in additional incentives through the NJ BPU**

**Scope of work:** List of activities to be undertaken using grant funding, including training of personnel, if applicable

**The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary activities to ensure efficiently conducted purchase and acquisition of the EV Ford F-150 Lightning Class 2b Pickup Truck for the DPW in Orange. As outlined in the City’s Community Energy Plan, the DPW has conducted an initial review of the municipal fleet to identify fossil fuel vehicles that are in need of replacement. The DPW has also identified a location within the DPW lot to install EV charging infrastructure to support new EV vehicles added to the fleet (project 3).**

**Total project duration:**

12 months

**Schedule of activities (Timeline):** The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period. If you are attaching a file, please list the file name below. Please name for files following the convention *<municipal\_name.project#.timeline.2024.pdf>*

**The anticipated timeline of activities for the Orange CEPI 2024 Purchase of Electric Vehicle (EV) Light Duty Truck for Municipal Fleet Project is approximately 12-months, as outlined in the City’s Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchase and acquisition of the EV light duty truck as outlined in the project.**

**The City is prepared to organize all required documentation to submit regular reporting to the NJ BPU per grant**

List the name (s) of supporting documents (quotes, studies, etc.) for this project that are attached to the application packet below. Please name attached files according to the following convention *<municipal\_name.project#.document\_title.2024.pdf>*

Orange.project2.EV\_Truck\_Quote.2024

**Local Priority:** (Up to 10 points)

Municipalities may identify one project (on a multi-project proposal) as their top priority and it will receive 10 points. Indicate here if this project is your top priority.

No

**Project Sustainability:** (Up to 5 points)

If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

**The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. Once the project is complete, the EV Ford F-150 Lighting Class 2b Pickup Truck will be maintained by the City’s Department of Public Works (DPW). All costs associated with maintenance activities will fall under the operations costs for the DPW, provided through the municipal budget. In the long-term, the City will be able to expand the EV DPW vehicles within the municipal fleet**

**Innovation and Replicability:** (Up to 5 points)

Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdictions into the future.

BPU  
Completes:

BPU  
Completes:

BPU  
Completes:



Project is in alignment with the New Jersey State Energy Master Plan (EMP), which outlines key strategies to reach the State’s goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 1: Reducing Energy Consumption and Emissions from the Transportation Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.

BPU  
Completes:

**Likelihood of Success:** (Up to 10 points)

Strength of project team, capacity of applicant to be able to implement or sustain the project past the grant funding. For planning projects - possibility of implementation of project after completion of study phase.

BPU  
Completes:

**E. Project Team**

Project Lead	
Name (First Last)	Chris Mobley
Email Address	cmobley@orangenj.gov
Phone	973-952-6079
Qualifications/ Areas of Expertise:	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
Title/Organization:	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
Time commitment	40 hours per month

Other Key Personnel	
Name (First Last)	Marty Mayes
Email Address	mmayes@orangenj.gov
Phone	973-952-6081
Role	DPW Director
Qualifications/ Areas of Expertise:	Director, Department of Public Works, The City of Orange Township
Time commitment	40 hours per month



Other Key Personnel	
Name (First Last)	Carnell E. Townes
Email Address	ctownes@orangenj.gov
Phone	973-952-6079
Role	DPW Superintendent
Qualifications/Areas of Expertise:	Superintendent of Public Properties, Department of Public Works, The City of Orange Township
Time commitment	40 hours per month

Consultant (optional) **	
Name of firm	
Role	
Name (First Last)	
Email Address	
Phone	

Partner (optional) **	
Name of firm	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
Role	
Name (First Last)	
Email Address	
Phone	

Partner (optional) **	
Name of firm	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
Role	
Name (First Last)	
Email Address	
Phone	

Partner (optional) **	
Name of firm	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
Role	
Name (First Last)	



<b>Email Address</b>	
<b>Phone</b>	

\*\* Please provide copies of agreements between the applicant and partners, consultants, sub-recipients, if applicable.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

## F. Estimated Project Cost and Sources of Funds

Funding will not be provided for projects where other non-competitive federal, state, or public utility sources are available.

If other funding sources are available for the project, the municipality may submit an application to fund all, or a portion of the costs of a project to be covered by the other funding sources.

	Name of program	
<b>Total estimated project cost</b>		<b>\$48,780.50</b>
Applicant's contribution		<b>\$0.00</b>
Utility Program grants or incentives*		<b>\$0.00</b>
State funding sources (such as NJCEP, NJDEP)**	<b>NJ BPU Clean Fleet Incentives Program</b>	<b>\$10,000.00</b>
Federal funding (such as EECBG Formula Grants, USDOT, etc.)**		<b>\$0.00</b>
Other (non-State or non-Federal) funding sources***		<b>\$0.00</b>
<b>CEPI Grant Program funds requested</b>		<b>\$38,780.50</b>

\* Details of utility grants or incentives (such as Direct Install, ESIP, etc.):

\*\* Details of state or federal funding (NJCEP, EECBG Formula Grant, etc.):

\*\*\* Details of other non-State or non-Federal funding sources:

The applicant must provide details of the other funding sources as attachments, and list them in the box below.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

Orange.project2.EV\_Truck\_Incentives.2024

## G. Budget Template

### A. Estimated Salary, wages, stipends and fringe benefits:



Name	Title	Hours/Rate	CEPI Grant funds	Other funding Sources	Total Cost
N/A	N/A	N/A	\$ -	\$ -	\$ -
					\$ -
					\$ -
<b>Total Salaries</b>			\$ -	\$ -	\$ -

**B. Estimated Subcontractors/Consultant Costs:**

Subcontractor/ Consultant	Role in Project	Period of Performance	CEPI Grant funds	Other funding Sources	Total Cost
N/A	N/A	N/A	\$ -	\$ -	\$ -
					\$ -
					\$ -
<b>Total Subcontractor/Consultant Cost</b>			\$ -	\$ -	\$ -

**C. Estimated Itemized Equipment:**

Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
EV - Class 2b pickup truck for DPW - 2023 Ford F-150 Lightning	48780.5	1	\$ 38,780.50	\$ 10,000.00	\$ 48,780.50
					\$ -
					\$ -
<b>Total Equipment Cost</b>			\$ 38,780.50	\$ 10,000.00	\$ 48,780.50

**D. Estimated Itemized Supplies:**

Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
N/A	N/A	N/A	\$ -	\$ -	\$ -
					\$ -
					\$ -
<b>Total Supplies Cost</b>			\$ -	\$ -	\$ -

**E. Estimated Other Itemized Expenses:**



Item	Justification	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
N/A	N/A	N/A	\$ -	\$ -	\$ -
					\$ -
					\$ -
<b>Total Supplies Cost</b>			\$ -	\$ -	\$ -
<b>Total Proposed Budget</b>			\$ 38,780.50	\$ 10,000.00	\$ 48,780.50



## A. Project Summary

### Municipality, County

The City of Orange Township, Essex County, New Jersey

### Project Title: Short title for the project

Orange CEPI 2024 Municipal Fleet Electric Vehicle (EV) Charging Station Project

### Brief Project Description: Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 Paragraph)

The City of Orange Township plans to add Electric Vehicle (EV) Chargers to the Department of Public Works (DPW) lot, which holds most of the DPW vehicles in Orange, NJ. The Municipal Fleet EV Charging infrastructure associated with the project consists of a ChargePoint CT4021 EV Charge Station with Dual Port Bollard Mount, as well as clear signage, and safety and accessibility features. The City expects multiple benefits from the outcome of this project, including reduced emissions from

### Is this project included in the municipality's adopted Community Energy Plan?

NOTE: Only one project not included in a Municipalities community energy plan will be eligible for funding.

Yes

BPU

Completes:

## Project Type

Up to 45 points may be awarded for the type of project being submitted. Applicants have two options:

- Preselected Projects, Select from among the list of pre-selected project types with assigned point levels in Section B
- Custom Project: Submit a custom project -- points will be awarded based on the responses in Section C

### Select the project type from the drop-down list below

Pre-selected Projects -- Complete Section B

## B. Pre-selected Projects (up to 45 points) Note: Only complete section B if you selected the pre-selected project type.

### Select a pre-selected project type from the drop-down list below

Fleet EV charging [35 points]



**C. Custom Projects (up to 45 points)** *Note: Only complete section C if you selected the custom project type.*

**For custom projects, provide a detailed project description**

Any project that has a meaningful impact on GHG emissions reductions is eligible.

Eligible custom projects include, but are not limited to:

- land use (to reduce VMT in transportation sector)
- outreach campaigns
- microgrids
- energy storage
- emerging technologies
- municipally-controlled fund for implementing energy efficiency upgrades on residential/commercial projects
- other innovative projects with significant GHG reduction potential

**Provide a detailed project description below.**



**SECTION C CANNOT BE FILLED AS YOU HAVE SELECETED PRE-SELECTED PROJECTS. PLEASE FILL SECTION B.**

**Expected Custom Project Impact**

Provide details on the following impacts:

- estimated population size to benefit from the project
- estimated impact on energy usage and/or GHG emissions reductions\*
- estimated co-benefits (health, equity, and economic impacts)\*\*

*\* Provide the justification and rationale for the impact of the project on energy consumption and GHG emissions. It is not required to provide detailed quantitative estimates of energy and GHG impact (for example, specific data is not available for some types of projects such as outreach campaigns). However, more detail and stronger justification will be scored higher.*

*\*\* It is not required to provide detailed quantitative estimates of co-benefits. However, detailed and stronger justifications will be scored higher.*

**Please provide the project details for the items listed above:**



**SECTION C CANNOT BE FILLED AS YOU HAVE SELECETED PRE-SELECTED PROJECTS. PLEASE FILL SECTION B.**

BPU	
Completes:	
Points	

**D. Project Details (up to 45 points)**



**Project Maturity:** (Up to 15 points)

Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation. Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It's important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.

Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.

**The Orange CEPI 2024 Municipal Fleet Electric Vehicle (EV) Charging Station Project is outlined in the City's Community Energy Plan as "Initiative 1.4: Purchase Alternative Fuel Vehicles." The project is contingent on the completion of the City's acquisition of an EV Ford F-150 class 2b Pickup Truck (project 2), but will have a useful lifespan and capacity to support other EVs the City plans to add to the municipal fleet.**

**The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning and design, as well as acquiring all proper permits, rights, and access to potential EV charging station sites. The completion of the charging station installation project at the DPW municipal lot will allow City planners to monitor and evaluate indicators of success, as well as areas of improvement, which will be utilized for future EV charging station projects as well as future EV purchasing and acquisitions for the municipal fleet.**

**Scope of work:** List of activities to be undertaken using grant funding, including training of personnel, if applicable

**The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary work activities to ensure efficiently conducted construction and installation of municipal fleet EV chargers at the project site of the DPW lot in Orange. As outlined in the City's Community Energy Plan, the DPW will conduct an initial site evaluation to ensure that adequate electricity is available at the site, and to ensure that municipal fleet EV chargers will have dedicated circuits and electricity supply.**

**Total project duration:**

12 months

**Schedule of activities (Timeline):** The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period. If you are attaching a file, please list the file name below. Please name for files following the convention [<municipal\\_name.project#.timeline.2024.pdf>](#)

The anticipated timeline of activities for the Orange CEPI 2024 Municipal Fleet Electric Vehicle (EV) Charging Station Project is approximately 12-months, as outlined in the City's Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchase and construction elements of the project.

The City is prepared to organize all required documentation in order to submit regular reporting to the NJ BPU per grant

List the name (s) of supporting documents (quotes, studies, etc.) for this project that are attached to the application packet below. Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

Orange.project3.Fleet\_EV\_Charger\_Quote.2024

**Local Priority:** (Up to 10 points)

Municipalities may identify one project (on a multi-project proposal) as their top priority and it will receive 10 points. Indicate here if this project is your top priority.

No

**Project Sustainability:** (Up to 5 points)

If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

The project capital and acquisition costs will be supported through the NJ BPU CEPI grant opportunity. The City is able to leverage an additional \$4,000 for the municipal fleet EV charger using available incentives through the NJ BPU Clean Fleet Program as well.

**Innovation and Replicability:** (Up to 5 points)

Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdictions into the future.

BPU  
Completes:

BPU  
Completes:

BPU  
Completes:



State Energy Master Plan (EMP), which outlines key strategies to reach the State’s goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 1: Reducing Energy Consumption and Emissions from the Transportation Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.

**Likelihood of Success:** (Up to 10 points)

Strength of project team, capacity of applicant to be able to implement or sustain the project past the grant funding. For planning projects - possibility of implementation of project after completion of study phase.

BPU  
Completes:

BPU  
Completes:

**E. Project Team**

Project Lead	
Name (First Last)	Chris Mobley
Email Address	cmobley@orangenj.gov
Phone	973-952-6079
Qualifications/ Areas of Expertise:	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
Title/Organization:	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
Time commitment	40 hours per month

Other Key Personnel	
Name (First Last)	Marty Mayes
Email Address	mmayes@orangenj.gov
Phone	973-952-6081
Role	DPW Director
Qualifications/ Areas of Expertise:	Director, Department of Public Works, The City of Orange Township
Time commitment	40 hours per month



Other Key Personnel	
Name (First Last)	Carnell E. Townes
Email Address	ctownes@orangenj.gov
Phone	973-952-6079
Role	DPW Superintendent
Qualifications/Areas of Expertise:	Superintendent of Public Properties, Department of Public Works, The City of Orange Township
Time commitment	40 hours per month

Consultant (optional) **	
Name of firm	
Role	
Name (First Last)	
Email Address	
Phone	

Partner (optional) **	
Name of firm	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
Role	
Name (First Last)	
Email Address	
Phone	

Partner (optional) **	
Name of firm	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
Role	
Name (First Last)	
Email Address	
Phone	

Partner (optional) **	
Name of firm	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
Role	
Name (First Last)	



<b>Email Address</b>	
<b>Phone</b>	

\*\* Please provide copies of agreements between the applicant and partners, consultants, sub-recipients, if applicable.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

## F. Estimated Project Cost and Sources of Funds

Funding will not be provided for projects where other non-competitive federal, state, or public utility sources are available.

If other funding sources are available for the project, the municipality may submit an application to fund all, or a portion of the costs of a project to be covered by the other funding sources.

		Name of program	
<b>Total estimated project cost</b>			<b>\$61,955.00</b>
Applicant's contribution			<b>\$0.00</b>
Utility Program grants or incentives*			<b>\$0.00</b>
State funding sources (such as NJCEP, NJDEP)**		<b>NJ BPU Clean Fleet Program Incentives</b>	<b>\$4,000.00</b>
Federal funding (such as EECBG Formula Grants, USDOT, etc.)**			<b>\$0.00</b>
Other (non-State or non-Federal) funding sources***			<b>\$0.00</b>
<b>CEPI Grant Program funds requested</b>			<b>\$57,955.00</b>

\* Details of utility grants or incentives (such as Direct Install, ESIP, etc.):

\*\* Details of state or federal funding (NJCEP, EECBG Formula Grant, etc.):

\*\*\* Details of other non-State or non-Federal funding sources:

The applicant must provide details of the other funding sources as attachments, and list them in the box below.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>.

Orange.project3.Fleet\_EV\_Charger\_Incentives.2024

## G. Budget Template

### A. Estimated Salary, wages, stipends and fringe benefits:



Name	Title	Hours/Rate	CEPI Grant funds	Other funding Sources	Total Cost
					\$ -
					\$ -
					\$ -
<b>Total Salaries</b>			\$ -	\$ -	\$ -

**B. Estimated Subcontractors/Consultant Costs:**

Subcontractor/ Consultant	Role in Project	Period of Performance	CEPI Grant funds	Other funding Sources	Total Cost
Engineer - Estimated Professional Services Cost	Consulting Engineer	12 months	\$ 12,400.00		\$ 12,400.00
					\$ -
					\$ -
<b>Total Subcontractor/Consultant Cost</b>			\$ 12,400.00	\$ -	\$ 12,400.00

**C. Estimated Itemized Equipment:**

Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
Construction Cost Estimate - Fleet EV charging Station (ChargePoint CT4021 EV Charge Station with Dual Port Bollard Mount) in the City of Orange Township	please see attached preliminary project cost estimates and anticipated scope of work	please see attached preliminary project cost estimates and anticipated scope of work	\$ 45,555.00	\$ 4,000.00	\$ 49,555.00
					\$ -
					\$ -
<b>Total Equipment Cost</b>			\$ 45,555.00	\$ 4,000.00	\$ 49,555.00

**D. Estimated Itemized Supplies:**



Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
					\$ -
					\$ -
					\$ -
<b>Total Supplies Cost</b>			\$ -	\$ -	\$ -

**E. Estimated Other Itemized Expenses:**

Item	Justification	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
					\$ -
					\$ -
					\$ -
<b>Total Supplies Cost</b>			\$ -	\$ -	\$ -

<b>Total Proposed Budget</b>			\$ 57,955.00	\$ 4,000.00	\$ 61,955.00
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**A. Project Summary**

**Municipality, County**

The City of Orange Township, Essex County, New Jersey

**Project Title:** Short title for the project

Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project

**Brief Project Description:** Clear and concise high-level statement of the goals and objectives of the project as well as the expected outcomes (max 1 Paragraph)

The City of Orange Township plans to upgrade energy efficiency in multiple municipal facilities in order to reduce carbon emissions, increase cost-savings, and promote a sustainable future within the City. As outlined in the City's Community Energy Plan, the City will implement multiple building retrofitting projects and energy efficiency upgrades. The City expects numerous benefits from the outcome of the project, including annual energy savings and increased emissions reductions in

**Is this project included in the municipality's adopted Community Energy Plan?**

NOTE: Only one project not included in a Municipalities community energy plan will be eligible for funding.

Yes

BPU  
Completes:

**Project Type**

- Up to 45 points may be awarded for the type of project being submitted. Applicants have two options:
  - Preselected Projects, Select from among the list of pre-selected project types with assigned point levels in Section B
  - Custom Project: Submit a custom project -- points will be awarded based on the responses in Section C

**Select the project type from the drop-down list below**

Custom Projects -- Complete Section C

**B. Pre-selected Projects (up to 45 points) Note: Only complete section B if you selected the pre-selected project type.**

**Select a pre-selected project type from the drop-down list below**

[Redacted]



**SECTION B CANNOT BE FILLED AS YOU HAVE SELECETED CUSTOM PROJECTS. PLEASE FILL SECTION C.**

**C. Custom Projects (up to 45 points)** *Note: Only complete section C if you selected the custom project type.*

**For custom projects, provide a detailed project description**

Any project that has a meaningful impact on GHG emissions reductions is eligible.

Eligible custom projects include, but are not limited to:

- land use (to reduce VMT in transportation sector)
- outreach campaigns
- microgrids
- energy storage
- emerging technologies
- municipally-controlled fund for implementing energy efficiency upgrades on residential/commercial projects
- other innovative projects with significant GHG reduction potential

**Provide a detailed project description below.**

**In 2021, the City of Orange Township was awarded a Local Government Energy Audit (LGEA) through the New Jersey Clean Energy Program (NJ CEP). The audit was complete in late 2021, and includes an inventory of all energy-consuming equipment, comprehensive utility bill analysis, facility benchmarking, and a cost/benefit analysis for energy conservation measures (ECMs) identified and recommended in order to reduce expenses as well as carbon emissions, in line with New Jersey State Energy Master Plan (EMP).**

**Expected Custom Project Impact**

Provide details on the following impacts:

- estimated population size to benefit from the project
- estimated impact on energy usage and/or GHG emissions reductions\*
- estimated co-benefits (health, equity, and economic impacts)\*\*

*\* Provide the justification and rationale for the impact of the project on energy consumption and GHG emissions. It is not required to provide detailed quantitative estimates of energy and GHG impact (for example, specific data is not available for some types of projects such as outreach campaigns). However, more detail and stronger justification will be scored higher.*

*\*\* It is not required to provide detailed quantitative estimates of co-benefits. However, detailed and stronger justifications will be scored higher.*

**Please provide the project details for the items listed above:**

The scope of benefits the project will have includes the entirety of the City of Orange Township, as the energy conservation measures (ECMs) outlined within the project will work to reduce costs and reduce emissions in the identified municipal buildings. These cost savings will be passed onto all residents, businesses, and patrons of the City, through the municipal budget. The co-benefits of reduced emissions usage have a greater impact on urban populations, like Orange, which historically deal with worse air quality, heat-island effects which are exacerbated by climate change, and less capacity to upgrade systems and facilities to meet recommended sustainability standards.

The Local Government Energy Audit LGEA sorts out the recommended cost effective ECM opportunities into a single table, which may be found on pages 12, 13, and 14 in the City’s LGEA attached to this application as a PDF. Of the cost effective opportunities which the City is pursuing in this project, the total estimated materials and labor cost is \$309,359. The total

BPU  
Completes:  
Points

**D. Project Details (up to 45 points)**



**Project Maturity: (Up to 15 points)**

Applicants must specify the current stage of project maturity and clarify the intended use of funds in terms of implementation. Are the funds designated for a feasibility study or for covering the construction costs of a fully developed project? It's important to note that feasibility studies and project development are permissible expenses, but projects that are closer to implementation are likely to receive stronger consideration.

Applicants to provide details on the progress made thus far which may include any submissions from potential contractors, quotations or cost estimates for the project, planning or implementation studies, and any officially recognized documents that authorize the project.

**The Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project is outlined in the City's Community Energy Plan as "Initiative 3.1: Upgrade Energy Efficiency in Municipal Facilities." The City Council, Administration, Finance Department, Planning Department, and Department of Public Works have been involved in coordination of the project planning, as well as acquiring all proper permits, rights, and access in order to properly implement building retrofitting projects.**

**The project parameters are outlined within the work plan of the City's Community Energy Plan, which has been adopted by the City Council. The completion of the building upgrades will help reduce energy use and emissions while increasing annual energy savings across the municipal building portfolio. The City is in possession of preliminary project materials and labor cost estimates for the various municipal building upgrades, and upon award of funding, will be able to initiate**

**Scope of work:** List of activities to be undertaken using grant funding, including training of personnel, if applicable

**The City Council, Administration, Finance Department, Planning Department, and Department of Public Works are in coordination to effectively complete all preliminary work activities to ensure grant funding can be immediately and effectively used for various activities outlined within the Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project.**

**As outlined in the City's Community Energy Plan, the Department of Planning will conduct initial project evaluations to**

**Total project duration:**

18 months

**Schedule of activities (Timeline):** The overall work scope is to be divided by quarterly periods. The applicant should describe the specific expected end result of each performance period. If you are attaching a file, please list the file name below. Please name for files following the convention *<municipal\_name.project#.timeline.2024.pdf>*



**The anticipated timeline of activities for the Orange CEPI 2024 Energy Efficiency Upgrades to Municipal Buildings Project is approximately 18-months, as outlined in the City's Community Energy Plan. The City will begin project activities immediately upon notification of the project award. The Department of Planning and Department of Public Works will work in coordination with the City Administration to complete project planning and will subsequently move forward with the purchasing and contracting elements of the project.**

**The City is prepared to organize all required documentation in order to submit regular reporting to the NJ BPU per grant**

List the name (s) of supporting documents (quotes, studies, etc.) for this project that are attached to the application packet below. Please name attached files according to the following convention [<municipal\\_name.project#.document\\_title.2024.pdf>](#)

Orange.project4.Building\_Efficiency\_Upgrades\_LGEA\_Presentation.2024

**Local Priority:** (Up to 10 points)

Municipalities may identify one project (on a multi-project proposal) as their top priority and it will receive 10 points. Indicate here if this project is your top priority.

No

**Project Sustainability:** (Up to 5 points)

If this is a long-term project, requiring regular payouts, does the municipality have a plan to sustain it past the utilization of the grant funding? If yes, please explain briefly.

**The project capital and construction costs will be supported through the NJ BPU CEPI grant opportunity. Once the project is complete, the energy efficiency upgrades within the municipal buildings will be maintained by the City's Department of Public Works (DPW). All costs associated with maintenance activities will fall under the operations costs for the DPW, provided through the municipal budget. In the long-term, the City will be able to expand continued energy efficiency and**

**Innovation and Replicability:** (Up to 5 points)

Briefly describe what makes this proposal innovative and how it can be replicated by other jurisdictions into the future.

BPU

Completes:

BPU

Completes:

BPU

Completes:



**Energy Master Plan (EMP), which outlines key strategies to reach the State’s goal of 100 percent clean energy by 2050. The project follows specific key strategies from the State EMP, including: Strategy 3: Maximizing Energy Efficiency and Conservation, and Reducing Peak Demand; Strategy 4: Reducing Energy Consumption and Emissions from the Building Sector; and Strategy 6: Supporting Community Energy Planning and Action in Underserved Communities.**

BPU  
Completes:

**Likelihood of Success:** (Up to 10 points)

Strength of project team, capacity of applicant to be able to implement or sustain the project past the grant funding. For planning projects - possibility of implementation of project after completion of study phase.

BPU  
Completes:

**E. Project Team**

Project Lead	
<b>Name (First Last)</b>	Chris Mobley
<b>Email Address</b>	cmobley@orangenj.gov
<b>Phone</b>	973-952-6079
<b>Qualifications/ Areas of Expertise:</b>	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
<b>Title/Organization:</b>	Deputy Director, Department of Planning and Economic Development, The City of Orange Township
<b>Time commitment</b>	40 hours per month

Other Key Personnel	
<b>Name (First Last)</b>	Marty Mayes
<b>Email Address</b>	mmayes@orangenj.gov
<b>Phone</b>	973-952-6081
<b>Role</b>	DPW Director
<b>Qualifications/ Areas of Expertise:</b>	Director, Department of Public Works, The City of Orange Township
<b>Time commitment</b>	40 hours per month



<b>Other Key Personnel</b>	
<b>Name (First Last)</b>	Carnell E. Townes
<b>Email Address</b>	ctownes@orangenj.gov
<b>Phone</b>	973-952-6079
<b>Role</b>	DPW Superintendent
<b>Qualifications/Areas of Expertise:</b>	Superintendent of Public Properties, Department of Public Works, The City of Orange Township
<b>Time commitment</b>	40 hours per month

<b>Consultant (optional) **</b>	
<b>Name of firm</b>	
<b>Role</b>	
<b>Name (First Last)</b>	
<b>Email Address</b>	
<b>Phone</b>	

<b>Partner (optional) **</b>	
<b>Name of firm</b>	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
<b>Role</b>	
<b>Name (First Last)</b>	
<b>Email Address</b>	
<b>Phone</b>	

<b>Partner (optional) **</b>	
<b>Name of firm</b>	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
<b>Role</b>	
<b>Name (First Last)</b>	
<b>Email Address</b>	
<b>Phone</b>	

<b>Partner (optional) **</b>	
<b>Name of firm</b>	(e.g. non-profit organization, community group, utility, foundation, private company, etc.)
<b>Role</b>	
<b>Name (First Last)</b>	



<b>Email Address</b>	
<b>Phone</b>	

\*\* Please provide copies of agreements between the applicant and partners, consultants, sub-recipients, if applicable.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>

## F. Estimated Project Cost and Sources of Funds

Funding will not be provided for projects where other non-competitive federal, state, or public utility sources are available.

If other funding sources are available for the project, the municipality may submit an application to fund all, or a portion of the costs of a project to be covered by the other funding sources.

		Name of program	
<b>Total estimated project cost</b>			<b>\$309,359.00</b>
Applicant's contribution			<b>\$0.00</b>
Utility Program grants or incentives*	Estimated Incentives based on previously run state rebate programs outlined in LGEA Presentation		<b>\$38,699.00</b>
State funding sources (such as NJCEP, NJDEP)**			<b>\$0.00</b>
Federal funding (such as EECBG Formula Grants, USDOT, etc.)**			<b>\$0.00</b>
Other (non-State or non-Federal) funding sources***			<b>\$0.00</b>
<b>CEPI Grant Program funds requested</b>			<b>\$270,660.00</b>

\* Details of utility grants or incentives (such as Direct Install, ESIP, etc.):

\*\* Details of state or federal funding (NJCEP, EECBG Formula Grant, etc.):

\*\*\* Details of other non-State or non-Federal funding sources:

The applicant must provide details of the other funding sources as attachments, and list them in the box below.

Please name attached files according to the following convention <municipal\_name.project#.document\_title.2024.pdf>.

Orange.project4.Building\_Efficiency\_Upgrades\_LGEA\_Presentation.2024

## G. Budget Template



**A. Estimated Salary, wages, stipends and fringe benefits:**

Name	Title	Hours/Rate	CEPI Grant funds	Other funding Sources	Total Cost
					\$ -
					\$ -
					\$ -
<b>Total Salaries</b>			\$ -	\$ -	\$ -

**B. Estimated Subcontractors/Consultant Costs:**

Subcontractor/ Consultant	Role in Project	Period of Performance	CEPI Grant funds	Other funding Sources	Total Cost
					\$ -
					\$ -
					\$ -
<b>Total Subcontractor/Consultant Cost</b>			\$ -	\$ -	\$ -

**C. Estimated Itemized Equipment:**

Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
					\$ -
					\$ -
					\$ -
<b>Total Equipment Cost</b>			\$ -	\$ -	\$ -

**D. Estimated Itemized Supplies:**

Item	Unit Cost	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
					\$ -
					\$ -
					\$ -
<b>Total Supplies Cost</b>			\$ -	\$ -	\$ -



E. Estimated Other Itemized Expenses:

Item	Justification	Quantity	CEPI Grant funds	Other funding Sources	Total Cost
Total Estimated Materials and Labor Cost of all recommended cost effective energy conservation measures (ECM) opportunities in the City's LGEA attached to this application as a PDF	Please see attached LGEA presentation	Please see attached LGEA presentation	\$ 270,660.00	\$ 38,699.00	\$ 309,359.00
					\$ -
					\$ -