

**PROSPECTUS - ALTERATION
ENERGY AND WATER RETROFIT AND CONSERVATION MEASURES PROGRAM
VARIOUS BUILDINGS**

Prospectus Number: PEW-0001-MU23

FY 2023 Project Summary

The General Services Administration (GSA) is proposing to invest in projects that directly result in reduced energy usage, reduced water usage, utility cost savings, and reduced pollution and emissions in Government-owned buildings beginning in Fiscal Year (FY) 2023.

FY 2023 Committee Approval and Appropriation Requested\$15,000,000

Program Summary

GSA proposes the implementation of energy and water retrofit and conservation measures in Government-owned buildings beginning in FY 2023. The Energy and Water Conservation Measures Program (Program) is designed to reduce on-site energy and water consumption through building alteration projects or retrofits of existing buildings systems. Completing these projects is an important part of GSA’s approach to complying with requirements in the Energy Act of 2020 (EA2020) and Executive Order 14057: Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability.

Projects will reflect GSA and Administration priorities including improving reducing costs; advancing clean and innovative technologies; and reducing pollutants and emissions from building operations. Furthermore, this investment may generate rebates and incentives from utility companies and grid operators.

In addition to meeting the stated priorities, proposed projects will be screened for life-cycle cost effectiveness to ensure they will generate a positive return-on-investment within the expected lifetime of the equipment.

This Prospectus program supports design and construction of energy and water management projects and retrofits in Federal buildings. Typical projects include, but are not limited to, the following:

- Upgrade heating, ventilation, and air-conditioning (HVAC) systems with new, high efficiency systems;
- Replace existing lighting and lighting controls including associated wiring;
- Install and upgrade building automation systems (BAS) and energy management control systems (EMCS);
- Design and install and connect renewable energy systems including solar photovoltaics, solar water heating, and wind power;

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- Design and install advanced geothermal heat pumps to replace conventional heating and cooling equipment;
 - Install or repair energy and water metering systems, diagnostic sensors, and equipment;
 - Replace electrical motors with multi-speed or variable-speed motors;
 - Install battery backup systems with load shedding and grid stabilization functions;
 - Insulate roofs, walls, pipes, HVAC ducts; and mechanical equipment;
 - Install multi-pane windows, and seal and repair existing windows;
 - Upgrade plumbing systems with high efficiency toilets and sinks; and
 - Install high efficiency irrigation and watering systems and provide for native landscaping and natural habitat restoration.

Justification

GSA is leading by example on the call to action and helping to facilitate an all-of-government approach to address climate change in federal government operations including implementing efficiency projects and reducing reliance on fossil fuels. GSA's portfolio includes a significant number of Federal buildings with investment needs in critical, energy-consuming infrastructure. GSA is increasing the agency's focus to improve energy and water efficiencies to reduce usage and costs along with the associated greenhouse gas emissions. Statutory and Executive Order direction supports key investments in energy and water to exceed prior levels of consumption and emission.

Approval of this FY 2023 request will enable GSA to meet these goals.

Summary of Energy, Water, Sustainability, and Climate Risk Compliance

This project will be designed to conform to requirements of the *Facilities Standards for the Public Buildings Service*. GSA will focus on design and construction opportunities to increase energy and water efficiencies to minimize operating costs and greenhouse gas emissions, to incorporate sustainable design principles into projects, and identify and minimize climate risk liabilities above the minimum performance criteria in a manner that is life-cycle cost effective.


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Certification of Need

GSA has determined that the proposed energy and water retrofit, and conservation program is the most practical solution to meeting those goals, maximizing taxpayer value and addressing an identified need.

Submitted at Washington, DC, on 4/6/2022

Recommended:  _____
Commissioner, Public Buildings Service

Approved:  _____
Administrator, General Services Administration