

STAFF REPORT UTILITY MEETING

AGENDA DATE: October 29, 2024

DEPARTMENT: Electric Utility

TITLE:

Department of Energy (DOE), Grid Deployment Office (GDO) Grid Resilience and Innovation Partnership (GRIP) Grant Award

SUMMARY:

The Electric Utility is seeking approval to accept and proceed with the Department of Energy's (DOE) Grid Deployment Office (GDO) Grid Resilience and Innovation Partnership (GRIP) Grant Award. This grant will fund several key initiatives to enhance the community's electrical grid, making it more resilient and efficient.

BACKGROUND AND JUSTIFICATION:

The City of Lake Worth Beach, FL, applied for and has been awarded \$23,462,167 under the Department of Energy's Grid Resilience and Innovation Partnership (GRIP) Grant. This funding as outline in the DOE Grid Deployment Office Assistance Agreement DE-GD0000909 effective 10/01/2024 will support the creation of a "smart grid" through five key infrastructure upgrades aimed at transforming the community's electrical grid and enhancing its resilience to climate change. The total project cost is \$46,924,334, with the city providing a 50 percent cost share of \$23,462,167, which has been included in the City FY2025 budget. The remaining 50% from this grant will require a budget amendment which will be presented in November 2024.

The five projects are

1. **Autonomous Rebalancing:** Installation of nearly 60 reclosers and other sectionalizing devices, including load flow sensors, to allow for remote rebalancing of the electrical system.
2. **Fiber Installation:** Installation of utility-owned dedicated fiber connections to and from each substation station and some remote line devices.
3. **Solar Interconnection and Battery Storage:** Voltage conversion and hardening of electric utility infrastructure to provide additional pathways for a future solar project at the City's closed landfill and installation of a battery energy storage system.
4. **Advanced Metering Infrastructure:** Replacement of the City's Advanced Metering Infrastructure (AMI).
5. **Meter Data Management:** Install a Meter Data Management (MDM) system to further complement the functions of a new AMI System.

The project's objectives are:

- Improve system reliability and limit the effects of outages.
- Enhance secure communication and data flow between distribution components.
- Provide interconnections and battery storage for its solar and green energy initiatives.
- Improve grid visibility and condition; and

- Improve grid-related decision making based upon historical and real-time system data.

MOTION:

Move to approve/disapprove the Department of Energy (DOE), Grid Deployment Office (GDO) Grid Resilience and Innovation Partnership (GRIP) Grant Award.

ATTACHMENT(S):

- Fiscal Impact Analysis
- Attachment 1 Intellectual Property (IP) Provisions Revised
- Attachment 2 Budget Conditioned DE GDO000909
- Attachment 3 Federal Assistance Reporting Checklist
- Attachment 4 - Assistance Agreement

FISCAL IMPACT ANALYSIS

Five Year Summary of Fiscal Impact:

Fiscal Years	2025	2026	2027	2028	2029
Inflows/Revenues					
Appropriated (Budgeted)	0	0	0	0	0
Program Income	0	0	0	0	0
Grants	\$10,322,213	\$3,524,373	\$3,393,951	\$3,483,610	\$2,738,020
In Kind	0	0	0	0	0
Outflows/Expenditures					
Appropriated (Budgeted)	0	0	0	0	0
Operating	0	0	0	0	0
Capital	\$10,322,213	\$3,524,373	\$3,393,951	\$3,483,610	\$2,738,020
Net Fiscal Impact <i>(If not budgeted)</i>	0	0	0	0	0
No. of Addn'l Full-Time Employee Positions	13	3	0	0	0

New Appropriation (Not Budgeted) Fiscal Impact:		
	Revenue Source	Expenditure
Department	Electric	Electric
Division	N/A	Distribution
GL Description	Federal Grants/ Electric Supply System	Improve Other than Build / Infrastructure
GL Account Number	421-0000-331.32-00	421-6034-531.63.15
Project Number	N/A	SHRIP Projects
Requested Funds	\$23,462,167	\$23,462,167
Remaining Balance	N/A	N/A