



LAKE WORTH BEACH

Electric
UtilitiesSM

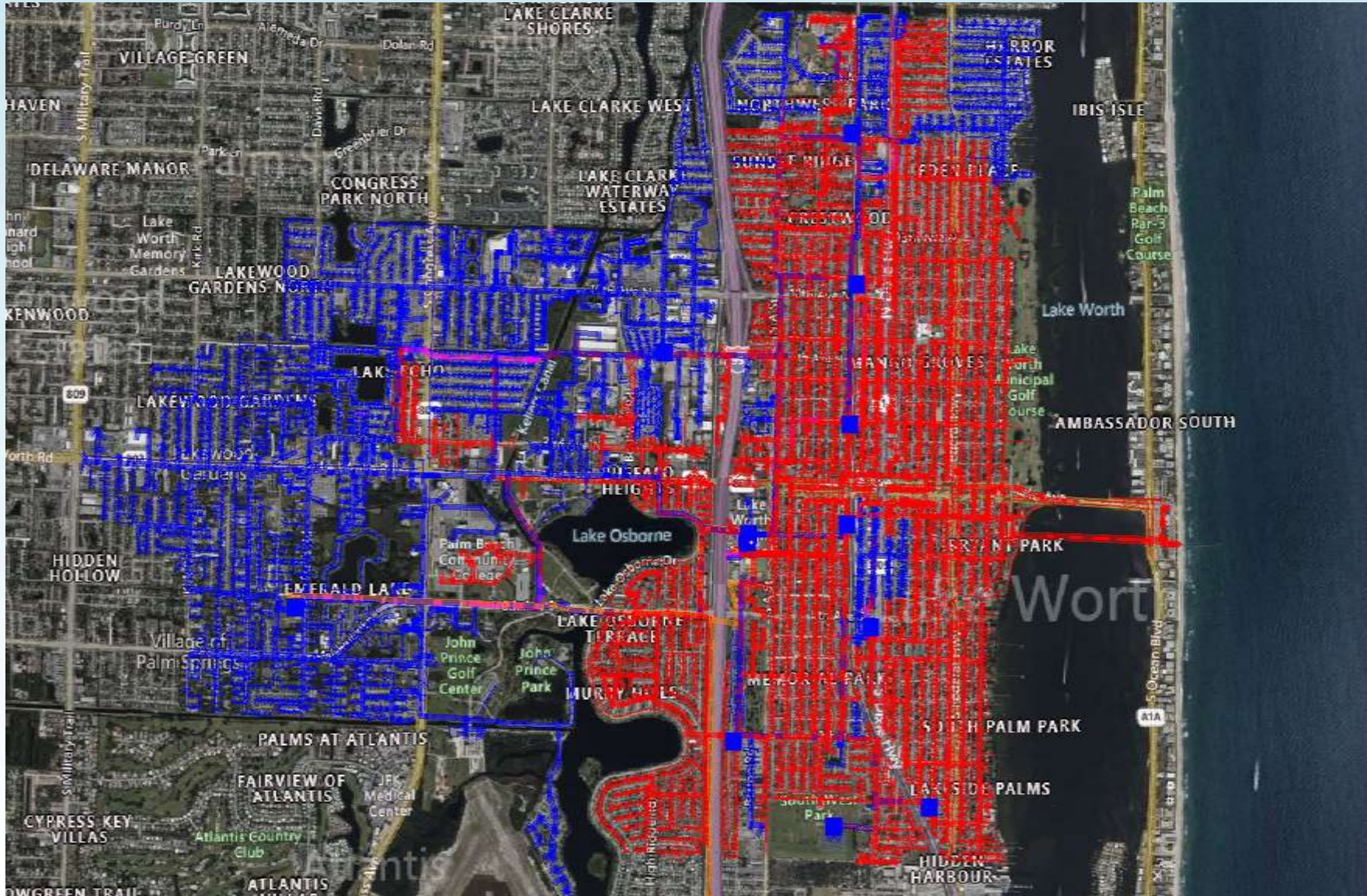
CITIZEN OWNED ENERGY

Agenda

- **System Hardening Reliability Improvement Program (SHRIP)**
 - Visual Status
- **Independent Engineer Analysis**
- **Series Revenue Bond-funded Project Status (2020, 2022, 2025)**
- **Appendix – Capital Investment Plans Status**



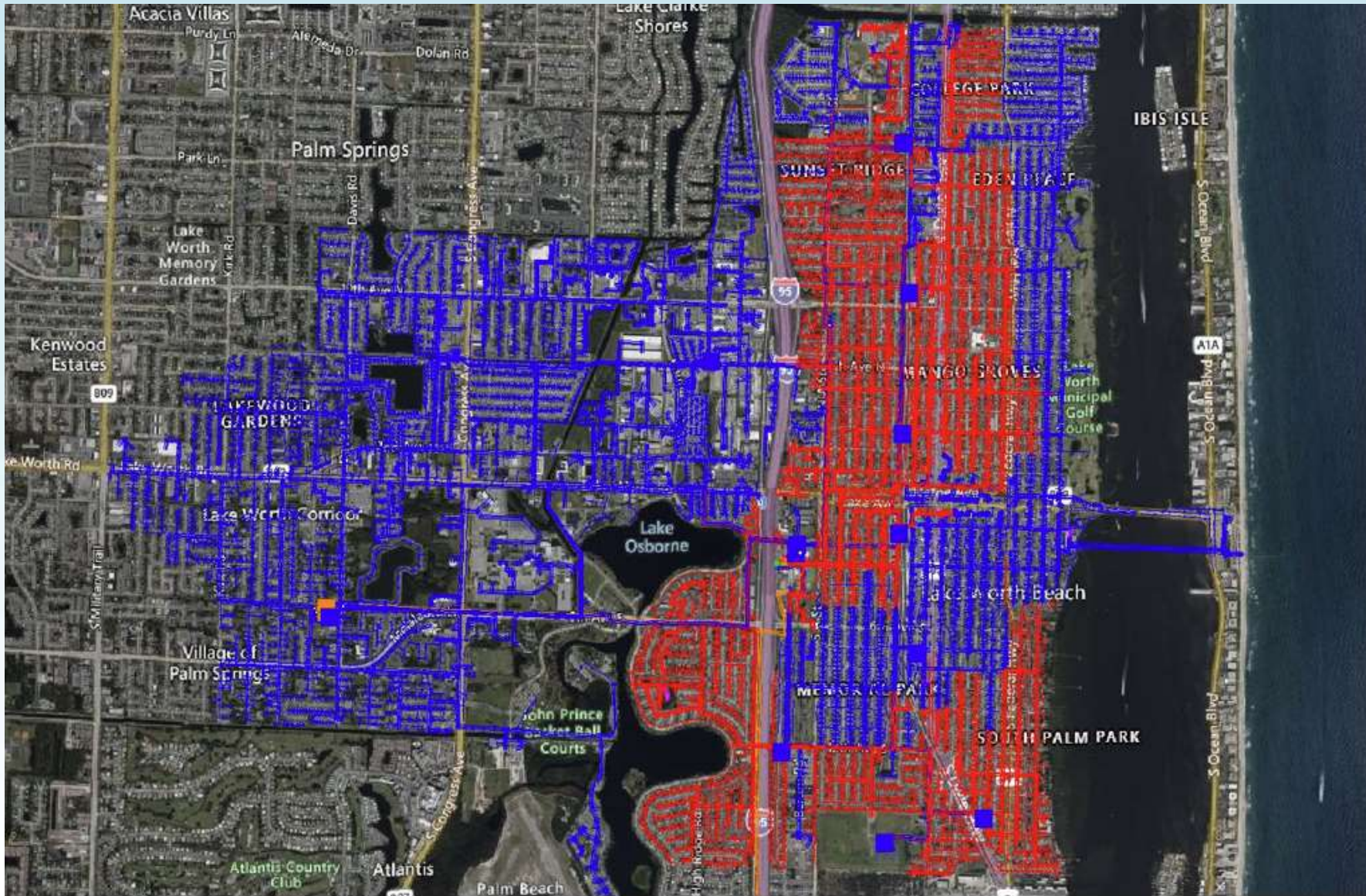
PRE-SHRIP



- RED: 4kV
- BLUE: 26kV

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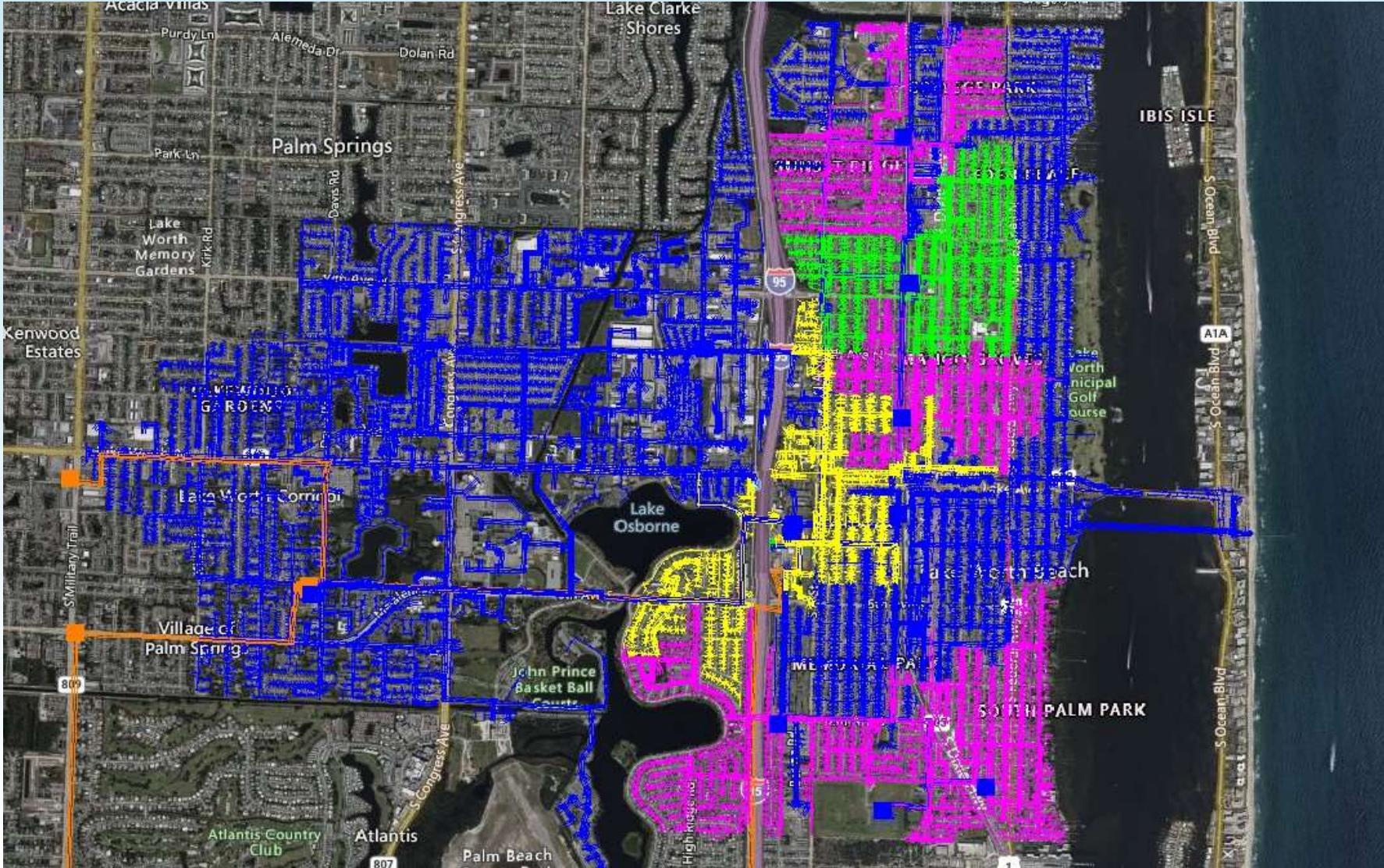
Today



- RED: 4kV
- BLUE: 26kV

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Targeted SHRIP 26kV Conversion & Hardening



- Green: **FY2028**
- Yellow: **FY2029**
- Magenta: **FY2030**

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Independent Engineer Analysis

Conclusion:

“The City of Lake Worth Beach Electric Utility has taken decisive steps over the past five (5) years to modernize its infrastructure, reduce operational risk, and position itself for long-term reliability and sustainability. Through retirement of older generation units, increased renewable energy entitlements, investment in advanced distribution technology, and planning for secondary transmission interconnection, CLWB is demonstrating prudent utility stewardship.”

United Utility, 6/17/2025

Recommendation:

“Based on our review of historical performance, generation entitlements, infrastructure assessments, and planned capital projects, United Utility Engineering, Inc. finds that the City of Lake Worth Beach Electric Utility is making appropriate and well-justified investments to enhance the reliability and resilience of its electric system.”



Series 2020, Series 2022 & Series 2025 Bond Status

Bond Series	Total Bond Proceeds	Total Encumbered	FY23-FY26 YTD (Internal Labor & Mat'ls)	Restricted & Funding for Grant	Bond Balances Remaining	Percent Expended
2020 Bond	\$44,771,745	\$43,279,802	\$1,491,943	\$0.00	\$0.00	100%
2022 Bond	\$40,460,375	\$23,611,425	\$6,314,613	\$10,349,707	\$184,630	99.5 %
2025 Bond	\$34,977,875	\$4,323,213	\$2,358,226	\$8,325,000	\$19,971,436	43%
Totals	\$120,209,995	\$71,214,440	\$10,164,782	\$18,674,707	\$20,156,066	83%



APPENDIX – Capital Investment Plans Status

- Series 2020 Consolidated Utility Revenue Bond Projects (Electric)
- Series 2022 Consolidated Utility Revenue Bond Projects (Electric)
- Series 2025 Consolidated Utility Revenue Bond Projects (Electric)



2020 Consolidated Utility Revenue Bond Projects

Project Name	Allocated Funds	Project Phase/Status
Utility Software Solutions	\$574,453.00	Suspended
Transmission Line - Canal 138kV Switchyard	\$7,902,197.00	In Service
Transmission Line OPWG - fiber communications	\$491,153.00	In Service
Canal 8 Bay 26kV Distribution Substation	\$9,911,261.00	In Service
138KV Tie-Line Static Line	\$234,370.00	In Service
138kV T-Line Distribution Underbuild	\$345,305.00	Completed
Canal Feeder - Construction	\$718,359.00	In Service
Canal Substation Distribution Circuits	\$3,954,631.00	Completed
Canal Substation Modifications	\$476,623.00	Completed
NERC CIP & Security Camera	\$245,000.00	Completed
Electric Sys Ops Center (Cat 5)	\$420,000.00	In Service
PB County 10th Ave & Boutwell Rd Undergrounding	\$350,000.00	In Service
FDOT & PBC 6th Ave S Improvements	\$454,219.00	Completed
Main Yd Control House	\$3,365,469.00	In Service
Main Yard Buss insulators	\$529,543.00	In Service
Main Yard GT2 Replacement	\$333,187.00	In Service
SCADA Telemetry	\$175,000.00	Completed
EU/City Fiber & Communications	\$500,000.00	Completed
6th Ave S Substation 6 Bank 26kV	\$759,887.00	Completed
6th Ave E S. Substation - Circuits	\$672,548.00	Completed
6th Ave S. Sub – Materials + Construction	\$434,436.00	In Service
South Loop Conversion	\$667,604.00	In Service
7th Ave N Substation Construction	\$2,120,608.00	In Service
7th Ave N Substation Circuits Construction	\$5,528,930.00	In Service
French Ave. 1W13/0704 Phase 2	\$1,275,000.00	Completed
E08 & ABB Breaker	\$267,055.00	Closed
Underground 3S04 Circuit - FECRR	\$520,868.00	In Service
Distribution Modeling & Trip	\$150,000.00	Completed
Undergrounding & Distribution -Bryant Park, Gulfstream - 4kV-26kV loop	\$863,841.00	In Service
Beach Tie - New ICW cross	\$530,198.00	Completed
Total	\$44,771,745.00	

2022 Consolidated Utility Revenue Bond Projects

Project Name	Allocated Funds	Project Phase/Status
138kV Tie-Line Underbuild Distribution Circuits, Materials & Construction (6004 & 6003)	\$3,660,724.00	In Service
Canal Substation Circuits - Hardening (6001,6003, 6004), Materials & Construction.	\$2,950,500.00	In Service
Main Yard Capacitor Banks, Study, Engineering, Materials & Install	\$500,000.00	To Grant Match
6th Ave S substation (6-bank station Materials & Construction)	\$5,491,046.00	In Service
6th AVE S. - Circuits Materials & Construction (0601,0602,0604)	\$8,482,568.00	In Service – Balance to Grant Match
6th AVE S. - Circuit Materials & Construction (0603 and 1200)	\$1,963,843.00	In Service
12th Ave S. Substation	\$1,000,000.00	To Grant Match
12th AVE S. substation Circuits	\$555,000.00	To Grant Match
OH to UG - 7th Ave N & I-95 (1E09 & 1N11/0703)	\$380,956.00	In Service
French Ave. 1W13/0704 Phase 2 Materials & Construction	\$1,246,736.00	In Service
NERC Compliance Tech	\$74,025.00	Completed
Line Truck Replacement	\$580,500.00	In Service
EV Charging Station	\$210,000.00	In Service
Cultural Plaza/Customer Service Renovation	\$1,500,000.00	Cancelled
System Reclosers	\$250,000.00	Completed
Dissolved Gas Analyzers for Transformers & SCADA	\$224,225.00	Completed
Fault Indicators	\$15,000.00	To Grant Match
XPLE UG Cable Replacement @ various locations & Substations	\$500,000.00	To Grant Match
Omicron Testing Equipment	\$110,000.00	Completed
Engineering Services Support	\$160,000.00	Completed
1E05 Phase 1 - 10th to 18th	\$2,999,167.00	To Grant Match
1E05 Phase 2 - RR Tracks 18th Ave N to 24th Ave N	\$1,506,085.00	To Grant Match
1E05 Phase 3 - UG Work @ Lake/Lucerne (W05-E09-E06-3N11-3N12)	\$250,000.00	To Grant Match
Beach Tie - New Lagoon crossing materials & construction	\$3,000,000.00	In Progress
1615 10th Ave N. UG feeder @ A Street	\$350,000.00	In Progress
New Main Yard Feeder 1W18	\$2,500,000.00	Deferred to 2025 Bond
Total	\$40,460,375.00	

2025 Consolidated Utility Revenue Bond Projects

Project Name	Allocated Funds	Project Phase/Status
Electric Utility New Administration Building	\$8,056,422.00	Design in Progress
Refresh Truck Fleet 4 Bucket Trucks, 2 Trouble Trucks, 1 Digger Derrick, 1 Flatbed	\$2,070,000.00	Procurement Documents being developed
Sub Transmission: E03 OH / UG Replacement Hardening Capacity Increase	\$407,630.00	Design is complete, RFP for Construction Vendor
Sub Transmission: New Main Yard Feeder 1W18 - Mat'ls & Constr. Extension	\$1,925,000.00	Design is complete, RFP for Construction Vendor
Sub Transmission - E05 OH / UG Replacement Hardening Capacity Increase	\$916,865.00	Design in Progress
Sub Transmission - E09 OH / UG Replacement Hardening Capacity Increase	\$849,000.00	Design in Progress
Sub Transmission - 5002 Harden Capacity Increase	\$660,845.00	Design in Progress
Sub Transmission - 5003 Harden Capacity Increase	\$803,471.00	Design in Progress
Sub Transmission - W12 Harden Capacity Increase	\$294,918.00	Design in Progress
4kV House Circuits, Voltage Conversion/Hardening: 3N11,3N12, 3N13, 4A3S05	\$999,233.00	Design in Progress
18th Ave N Metal Clad Substation - Design & Construction	\$3,155,028.00	Design in Progress
18th Ave N Substation Circuit - 26R1801 Hardening	\$296,367.00	Upcoming
18th Ave N Substation Circuit, Voltage Conversion/Hardening 1802, 1803, 1804	\$739,511.00	Upcoming
Hypoluxo CT/PT Combo Installation	\$195,000.00	Design in Progress
Hypoluxo Refresh (Wire Trap, SS, etc.)	\$110,000.00	Design in Progress
Turbonet Replacement (Vehicle Tracking and Radio Recording)	\$318,500.00	In Progress
FY23 & FY24 Labor & Materials (Contra)	\$2,075,000.00	
FY25 Labor & Materials (Contra)	\$3,000,000.00	
WMODA UG Conversion & Hardening	\$938,695.00	In Progress
Canal 8 Bay 26kV Substation - Extension	\$100,000.00	Project Complete/In Service
T-Line Underbuild (SH2235) - Extension	\$100,000.00	Project Complete/In Service
3S03 Phase 1 & Phase 2	\$1,857,585.00	In Progress
138kV T-Line Switch Removal	\$100,000.00	In Progress
SCADA Telemetry	\$15,000.00	In Progress

2025 Match Projects	Estimated \$ *
Sectionalizing Devices	\$ 7,876,250
Fiber Optic Connections	\$ 3,882,989
Generation Interconnection	\$ 4,368,657
Advanced Metering Infrastructure (AMI)	\$ 6,369,979
Meter Data Management System (MDM)	\$ 964,295
Grant Projects Cost Share TOTAL	\$ 23,462,170



* Estimated Values Pending Finance Department Review