



2018
CAPITAL IMPROVEMENT PROGRAM

JEFF JANKE, SENIOR MANAGING DIRECTOR

Transmission Program

2018 Project Cost:	\$67,926,000
Total Project Cost:	\$92,306,000
Estimated Completion Date:	2019
Council District:	1, 6, 7, 8

- Limestone to Gibbons Creek Transmission Line - \$44.879m
 - Construct a 345kV transmission line from Limestone to Gibbons Creek (Houston Import Project).
- Wylie Switchyard to Firewheel Transmission Line - \$13.327m
 - Line rating increase of the Wylie Switchyard to Firewheel 138kV transmission line.
- Holford 138kV Transmission Line Loop Addition - \$2.478m
 - 138kV double-circuit loop off of the Firewheel to Lookout transmission line to serve the new Holford Switchyard.

Transmission Program *(Continued)*

2018 Project Cost:	\$67,926,000
Total Project Cost:	\$92,306,000
Estimated Completion Date:	2019
Council District:	1, 6, 7, 8

- Naaman to Apollo Rebuild Transmission Line - \$2.220m
 - Rebuild the existing Naaman to Apollo 69kV transmission line from Naaman Forest Boulevard at North Garland Road to the Apollo Substation to 138kV.
- Lookout to Firewheel Rebuild Transmission Line - \$1.890m
 - Line rating increase of the Lookout to Firewheel transmission line.
- Dent Road to Shelby Transmission Line - \$1.301m
 - New 138kV transmission line providing a third feed into the Greenville area.

Transmission Program *(Continued)*

2018 Project Cost:	\$67,926,000
Total Project Cost:	\$92,306,000
Estimated Completion Date:	2019
Council District:	1, 6, 7, 8

- Apollo to Lookout Rebuild Transmission Line - \$774k
 - Line rating increase of the Apollo to Lookout transmission line.
- College to Jupiter Transmission Line - \$774k
 - Upgrade a section of the existing transmission line on Shiloh Road to resolve a constraint issue with the segment from Shiloh Road to Jupiter Road.
- Olinger to Wylie East Circuit - \$200k
 - 138kV Olinger – Elm Grove & Olinger – Firewheel transmission line improvements.



Transmission Program *(Continued)*

2018 Project Cost:	\$67,926,000
Total Project Cost:	\$92,306,000
Estimated Completion Date:	2019
Council District:	1, 6, 7, 8

- Haul Trailer - \$83k
 - Replacement of 35-year-old trailer used to haul heavy equipment to job sites.

Substations Program

2018 Project Cost:	\$39,426,000
Total Project Cost:	\$52,236,000
Estimated Completion Date:	2021
Council District:	1, 7

- Morada del Sol Switchyard - \$10.935m
 - New transmission switchyard for proposed solar farm to connect to GP&L's CREZ transmission line.
- Holford Switchyard - \$9.208m
 - New 138 kV switchyard to serve load growth in the President George Bush Turnpike area.
- Ben Davis Substation - \$7.889m
 - Flood control design and mitigation construction.



Substations

Program *(Continued)*

2018 Project Cost:	\$39,426,000
Total Project Cost:	\$52,236,000
Estimated Completion Date:	2021
Council District:	1, 7

- Apollo Substation - \$5.218m
 - Conversion of the existing 69kV portion of the substation to 138kV and an upgrade of the 138kV portion to 3000A.
- Dent Road Switchyard - \$3.945m
 - New transmission switchyard for the new 138kV transmission line providing a third feed into the Greenville area.
- Electromechanical Relay Upgrade - \$1.975m
 - Current relays will be replaced with line differential relays to comply with updated NERC CIP standards.

Substations

Program *(Continued)*

2018 Project Cost:	\$39,426,000
Total Project Cost:	\$52,236,000
Estimated Completion Date:	2021
Council District:	1, 7

- Naaman Substation - \$256k
 - Upgrade of breakers and potential transformers from 69kV to 138kV as well as protection modifications to the control house.

Underground Distribution Program

2018 Project Cost:	\$8,356,000
Total Project Cost:	\$10,106,000
Estimated Completion Date:	2020
Council District:	All

- 200-Amp Loop Replacements - \$4.083m
 - Replace approximately 100k feet of direct buried underground cable with conduit due to system aging and failure rates.
- UG Line Construction - \$2.776m
 - Replacement of primary underground cable and the construction of new underground primary cable.
- Wyrick Subdivision - \$871k
 - New subdivision to be located at the southwest corner of Shiloh and Buckingham Roads.



Underground Distribution Program *(Continued)*

2018 Project Cost:	\$8,356,000
Total Project Cost:	\$10,106,000
Estimated Completion Date:	2020
Council District:	All

- Duct Bank at Holford Road and PGBT - \$544k
 - Support growth along President George Bush Turnpike.
- Distribution Improvements for Substation Conversions from 69kV to 138kV - \$82k
 - Construction of distribution feeders from the Apollo and Newman Substations.

Overhead Distribution Program

2018 Project Cost:	\$3,771,000
Total Project Cost:	\$10,972,000
Estimated Completion Date:	2021
Council District:	2, 4, 5, 6, 7, 8

- Overhead Lateral Rebuilds - \$2.200m
 - Replacement of 15 lateral lines, including alley overhead rebuilds.
- Overhead Feeder Rebuilds - \$1.500m
 - New poles and conductors for the Shiloh 4, 5, and 6; Rosehill 2; and Apollo 3 Feeders.
- Distribution Improvements for Substation Conversions from 69kV to 138kV - \$71k
 - Construction of distribution feeders from the Apollo and Newman Substations.



Street & Thoroughfare Lighting Program

2018 Project Cost:	\$2,959,000
Total Project Cost:	\$11,699,000
Estimated Completion Date:	2022
Council District:	1, 2 ,5 for 2018

- LED Street Light Conversion (Residential) - \$1.780m
 - LED Residential Street Light Conversion project to convert existing residential street lighting throughout the city to LED-type lighting.
- LED Street Light Conversion (Thoroughfare) - \$1.179m
 - LED Thoroughfare Street Light Conversion project to convert existing thoroughfare lighting throughout the city to LED-type lighting.



Commercial & Industrial Program

2018 Project Cost:	\$849,000
Total Project Cost:	\$849,000
Estimated Completion Date:	2018
Council District:	1

- Striker Marquis Apartments, Townhomes, and Commercial Properties - \$849k
 - New underground and aerial services.

Production Program

2018 Project Cost:	\$815,000
Total Project Cost:	\$815,000
Estimated Completion Date:	2018
Council District:	All

- Natural Gas Monitoring System - \$419k
 - Replace the natural gas and metering system at the Olinger Power Station that is obsolete and no longer supported by manufacturer.
- Station Air Compressor - \$325k
 - Replace air compressors 2A and 2B at the Olinger Plant for required compressed air redundancy.
- Service Water Strainer - \$71k
 - Replace existing cooling water intake strainer system at the Olinger Plant.



Relocation Program

2018 Project Cost:	\$272,000
Total Project Cost:	\$1,022,000
Estimated Completion Date:	2019
Council District:	5

- Relocations - Glenbrook and Saturn Springs - \$272k
 - Relocate GP&L distribution facilities adjacent to Duck Creek and convert the overhead lines to underground lines.



SUMMARY OF CIP PROJECTS

Project Name	2018 CIP Impact Actionable Projects
Transmission	\$67,926,000
Substations	39,426,000
Underground Distribution	8,356,000
Overhead Distribution	3,771,000
Street & Thoroughfare Lighting	2,959,000
Commercial & Industrial	849,000
Production	815,000
Relocation	272,000



QUESTIONS?

