

FirstEnergy Upgrades to Support Portfolio Proposals

General Information

Proposing entity name	Confidential Information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Confidential Information
Company proposal ID	Confidential Information
PJM Proposal ID	232
Project title	FirstEnergy Upgrades to Support Portfolio Proposals
Project description	This proposal encompasses project components that are intended to support the portfolio proposals that are submitted by FirstEnergy and other entities. This proposal is not intended to resolve all of the violations posted in the window, but to address the non-regional facility violations not fully addressed by the portfolio proposals. The proposal is an 'a la carte' of projects that may be selected as needed to address violations in the FirstEnergy zones.
Email	Confidential Information
Project in-service date	12/2029
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	Confidential Information

Project Components

1. Doubs No. 1 500/230 kV Transformer Terminal Upgrades
2. Doubs No. 2 500/230 kV Transformer Terminal Upgrades
3. Belmont - Flint Run 500 kV Line Terminal Upgrades

4. Edinburg - Strasburg 138 kV Line Terminal Upgrades
5. Albright - Cross School 138 kV Line Terminal Upgrades
6. Bartonville - Stephenson 138 kV Line Terminal Upgrades
7. Double Toll Gate - Millville 138 kV Line Terminal Upgrades
8. Meadow Brook - Bartonville 138 kV Line Terminal Upgrades
9. Rebuild the Powell Mt - Sutton 138 kV Line
10. Stonewall - Millville 138 kV Line Upgrades
11. Flint Run No. 1 and No. 2 500/138 kV Transformer Replacements

Substation Upgrade Component

Component title	Doubs No. 1 500/230 kV Transformer Terminal Upgrades
Project description	Confidential Information
Substation name	Doubs
Substation zone	201
Substation upgrade scope	Replace (1 Lot) of limiting conductor. Install (1 Lot) of connectors. Replace existing 230 kV surge arrestors.

Transformer Information

None	
New equipment description	All new equipment will exceed the ratings of the transformer.
Substation assumptions	All work will be accomplished within the boundaries of the substation.
Real-estate description	No real estate acquisition is required.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information

Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$431,867.29
Component cost (in-service year)	\$453,396.00
Substation Upgrade Component	
Component title	Doubs No. 2 500/230 kV Transformer Terminal Upgrades
Project description	Confidential Information
Substation name	Doubs
Substation zone	201
Substation upgrade scope	Replace limiting conductor on the Doubs No. 2 500/230 kV Transformer.
Transformer Information	
None	
New equipment description	All new equipment will exceed the ratings of the transformer.
Substation assumptions	All work will be accomplished within the boundary of the substation.
Real-estate description	No real estate acquisition is required.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information

Component Cost Details - In Current Year \$

Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$404,683.51
Component cost (in-service year)	\$424,563.00

Substation Upgrade Component

Component title	Belmont - Flint Run 500 kV Line Terminal Upgrades
Project description	Confidential Information
Substation name	Belmont (Bus # 235102), Flint Run (Bus # 235235)
Substation zone	201
Substation upgrade scope	Replace the 500 kV wave traps, one at Belmont Substation and one at Flint Run Substation.

Transformer Information

None	
New equipment description	New wave traps to be rated at 5000 A.
Substation assumptions	All work to be performed within the boundary of the substation.
Real-estate description	This project will have no impact on real estate.

Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$888,491.54
Component cost (in-service year)	\$994,529.00
Substation Upgrade Component	
Component title	Edinburg - Strasburg 138 kV Line Terminal Upgrades
Project description	Confidential Information
Substation name	Strasburg (Bus #235513)
Substation zone	201
Substation upgrade scope	Install (1 Lot) of grounding wire and connectors. Replace (1 Lot) of Foundations for replacement of Circuit Switcher with MOAB Disconnect Switch. Replace (1) 138 kV Line trap. Replace (1) 138 kV Linerupter Circuit Switcher, with (1) 138 kV MOAB Disconnect Switch. Install (1 Lot) of Conductors and Connectors for Jumpers.

Transformer Information

None	
New equipment description	New equipment listed in scope to exceed the ratings of the transmission line conductor.
Substation assumptions	All work to be performed within the boundary of the substation.
Real-estate description	There will be no impact to real estate.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$608,431.82
Component cost (in-service year)	\$675,256.00
Substation Upgrade Component	
Component title	Albright - Cross School 138 kV Line Terminal Upgrades
Project description	Confidential Information
Substation name	Albright (Bus # 235120), Beryl (Bus # 235518)
Substation zone	201

Substation upgrade scope	At Albright Substation: - Replace 138 kV breaker leads. At Beryl: - Replace two 138 kV switches.
Transformer Information	
None	
New equipment description	New 138 kV switches and breaker leads to exceed the ratings of the transmission line conductor.
Substation assumptions	All work will be performed within the boundary of the substation.
Real-estate description	No real estate acquisition is required.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$579,355.68
Component cost (in-service year)	\$610,385.05
Substation Upgrade Component	
Component title	Bartonville - Stephenson 138 kV Line Terminal Upgrades
Project description	Confidential Information

Substation name	Bartonville (Bus #235444)
Substation zone	201
Substation upgrade scope	Install (1 Lot) of Foundations and Substation Stone. Install (1 Lot) of Grounding Wire and Connectors. Install (1 Lot) of Below Grade Conduit. Replace (1) Existing 138 kV Circuit Switcher, with (1) 138 kV 3-Phase MOAB Disconnect Switch Replace (1 Lot) of limiting conductor. Install (1 Lot) of Conductors and Connectors for Jumpers Install (1) surge arrestor
Transformer Information	
None	
New equipment description	New equipment listed in scope description to exceed the ratings of the transmission line conductor.
Substation assumptions	All work will be performed within the boundary of the substation.
Real-estate description	There will be no impact to real estate.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$795,601.81
Component cost (in-service year)	\$850,756.00

Substation Upgrade Component

Component title	Double Toll Gate - Millville 138 kV Line Terminal Upgrades
Project description	Confidential Information
Substation name	Millville (Bus #235486), Old Chapel (Bus 3235498)
Substation zone	201
Substation upgrade scope	At Millville: Install (1 Lot) of Grounding Wire and Connectors. Install (1 Lot) of Below Grade Conduit. Replace limiting 1024.5 ACSR with conductor. Replace (1) Circuit Breaker Replace (2) 138 kV, 1200A GOAB Disconnect Switches. Install (1 Lot) of Conductors and Connectors for Jumpers

Transformer Information

None	
New equipment description	New equipment listed in scope description to exceed the transmission line conductor ratings.
Substation assumptions	All work to be performed within the boundary of the substation.
Real-estate description	There will be no impact to real estate.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information

Contingency	Confidential Information
Total component cost	\$1,763,549.08
Component cost (in-service year)	\$1,968,348.00
Substation Upgrade Component	
Component title	Meadow Brook - Bartonville 138 kV Line Terminal Upgrades
Project description	Confidential Information
Substation name	Meadow Brook (Bus #2345483), Bartonville (Bus #235444)
Substation zone	201
Substation upgrade scope	At Meadow Brook: Install (1 Lot) of Grounding Wire and Connectors. Replace (1 Lot) of limiting 1272 ACSR. Replace (1) 138kV Wave Trap. Install (1 Lot) of Conductors and Connectors for Jumpers. Install (1) 138 kV surge arrestor. At Bartonville: Install (1 Lot) of Grounding Wire and Connectors. Replace (1 Lot) of limiting conductor. Replace (2) 138 kV MOAB Disconnect Switches. Install (1 Lot) of Conductors and Connectors for Jumpers. Install (1) surge arrestor.
Transformer Information	
None	
New equipment description	New equipment listed in scope description to exceed the transmission line conductor ratings.
Substation assumptions	All work to be performed within the boundary of the substation.
Real-estate description	There will be no real estate impact.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information

Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$1,016,419.94
Component cost (in-service year)	\$1,071,355.00

Transmission Line Upgrade Component

Component title	Rebuild the Powell Mt - Sutton 138 kV Line
Project description	Confidential Information
Impacted transmission line	Powell Mt - Sutton 138 kV Line
Point A	Powell Mt (Bus #235389)
Point B	Sutton (Bus #235411)
Point C	
Terrain description	The existing terrain is very hilly and mountainous with multiple long spans crossings valleys.
Existing Line Physical Characteristics	
Operating voltage	138 kV
Conductor size and type	4/0 ACSR 6/1
Hardware plan description	The existing hardware will not be utilized, as this line will be fully rebuilt.
Tower line characteristics	The existing line is single circuit construction on wood multi-pole structures.
Proposed Line Characteristics	
	Designed
	Operating

Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	308.000000	376.000000
Winter (MVA)	349.000000	445.000000
Conductor size and type	954 ACSR 45/7 STR	
Shield wire size and type	OPGW SFPOC SFSJ-J-6641	
Rebuild line length	23 mi	
Rebuild portion description	The entire Powell Mt - Sutton 138 kV Line will be rebuilt.	
Right of way	No additional right of way will be required.	
Construction responsibility	Confidential Information	
Benefits/Comments	Confidential Information	
Component Cost Details - In Current Year \$		
Engineering & design	Confidential Information	
Permitting / routing / siting	Confidential Information	
ROW / land acquisition	Confidential Information	
Materials & equipment	Confidential Information	
Construction & commissioning	Confidential Information	
Construction management	Confidential Information	
Overheads & miscellaneous costs	Confidential Information	
Contingency	Confidential Information	
Total component cost	\$59,013,730.10	
Component cost (in-service year)	\$66,703,726.00	

Transmission Line Upgrade Component

Component title	Stonewall - Millville 138 kV Line Upgrades	
Project description	Confidential Information	
Impacted transmission line	Stonewall - Feagans Mill 138 kV Line, Feagans Mill - Mechanicstown 138 kV Line, Mechanicstown - Millville 138 kV Line	
Point A	Stonewall (Bus # 235512)	
Point B	Feagans Mill (Bus # 235465)	
Point C	Millville (Bus # 235486)	
Terrain description	The terrain is primarily flat.	
Existing Line Physical Characteristics		
Operating voltage	138 kV	
Conductor size and type	556.5 ACSR 26/7	
Hardware plan description	The single-circuit Stonewall - Feagans Mill 138 kV Line, Feagans Mill - Mechanicstown 138 kV Line, and Mechanicstown - Millville 138 kV Line will be rebuilt as double-circuit structures with 500 kV and 138 kV as part of the b3800 project series. Therefore, new hardware will be utilized.	
Tower line characteristics	The existing line is constructed on single circuit wood and light duty steel multi-pole structures.	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	138.000000	138.000000
	Normal ratings	Emergency ratings
Summer (MVA)	448.000000	516.000000
Winter (MVA)	448.000000	543.000000
Conductor size and type	795 ACSS 26/7	

Shield wire size and type	7#8 Alumoweld
Rebuild line length	0.8 mi
Rebuild portion description	The single-circuit Stonewall - Feagans Mill 138 kV Line, Feagans Mill - Mechanicstown 138 kV Line, and Mechanicstown - Millville 138 kV Line will be rebuilt as double-circuit structures with 500 kV and 138 kV as part of the b3800 project series. This scope of work will rebuild the remainder of the transmission line, which consists of the transmission line conductor that enters each respective substation. All existing structures will be replaced with double-circuit steel monopoles.
Right of way	The scope of work will take place in the existing right of way, so no additional right of way acquisition is required.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$4,712,287.85
Component cost (in-service year)	\$5,244,370.70
Substation Upgrade Component	
Component title	Flint Run No. 1 and No. 2 500/138 kV Transformer Replacements

Project description	Confidential Information
Substation name	Flint Run (Bus # 235235)
Substation zone	201
Substation upgrade scope	Install (1 Lot) of Grounding connections. Install (1 Lot) of new foundations. Install new oil containment. Install (2) 500/138kV transformers. Install (1) firewall. Revise relay settings. Remove the two existing 500/138kV transformers.

Transformer Information

	Name	Capacity (MVA)
Transformer	Flint Run No. 1 500/138 kV Transformer	800/1040 MVA SN/SE
	High Side	Low Side Tertiary
Voltage (kV)	500	138 13.2

	Name	Capacity (MVA)
Transformer	Flint Run No. 2 500/138 kV Transformer	800/1040 MVA SN/SE
	High Side	Low Side Tertiary
Voltage (kV)	500	138 13.2

New equipment description	Two new 500/138 kV transformers with increased capacity.
Substation assumptions	- Firewall will be needed. - No relay replacements will be needed. - No new control cable will be needed.
Real-estate description	No additional real estate is required.
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	

Engineering & design	Confidential Information
Permitting / routing / siting	Confidential Information
ROW / land acquisition	Confidential Information
Materials & equipment	Confidential Information
Construction & commissioning	Confidential Information
Construction management	Confidential Information
Overheads & miscellaneous costs	Confidential Information
Contingency	Confidential Information
Total component cost	\$27,256,322.62
Component cost (in-service year)	\$31,327,547.66

Congestion Drivers

None

Existing Flowgates

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-GD-S107	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S388	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S62	238184	AF2-356 TAP	235492	01MTZION	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S763	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S416	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S237	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S238	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer IPD	Included
2024W1-IPD-S202	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S235	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S236	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer IPD	Included
2024W1-IPD-S241	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer IPD	Included
2024W1-IPD-S242	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer IPD	Included
2024W1-IPD-S239	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer IPD	Included
2024W1-IPD-S240	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer IPD	Included
2024W1-GD-S764	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S391	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S790	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S327	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S71	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S200	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S233	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S201	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S234	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S198	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S204	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-GD-S394	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S248	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S249	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S246	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S247	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S252	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S250	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S251	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S332	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S331	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S776	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S779	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S244	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S212	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer IPD	Included
2024W1-IPD-S245	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S210	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S243	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer IPD	Included
2024W1-GD-S101	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S786	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S182	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S181	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S174	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S295	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-W28	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Winter IPD	Included
2024W1-GD-S371	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S175	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S296	235296	01BAYS	235389	01POWELM	1	138	201	Summer IPD	Included
2024W1-GD-S787	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S173	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-IPD-S294	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S113	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S299	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S761	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S176	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S297	235296	01BAYS	235389	01POWELM	1	138	201	Summer IPD	Included
2024W1-IPD-W30	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Winter IPD	Included
2024W1-GD-S762	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S177	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S298	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-W29	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Winter IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-GD-S288	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S289	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S286	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S287	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-N1-ST88	238184	AF2-356 TAP	235492	01MTZION	1	138/138	201/201	Summer Thermal	Included
2024W1-GD-S788	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-N1-ST89	238184	AF2-356 TAP	235492	01MTZION	1	138/138	201/201	Summer Thermal	Included
2024W1-GD-S3	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S892	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S775	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S191	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S192	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S185	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S383	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S893	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S183	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S789	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S184	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S319	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S189	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S352	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S40	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S160	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S281	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S161	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S282	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S158	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S159	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S280	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S162	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S153	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S274	235296	01BAYS	235389	01POWELM	1	138	201	Summer IPD	Included
2024W1-GD-S4	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S875	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S773	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S781	235431	01WOLFRN	235437	01SUTT T	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S440	235431	01WOLFRN	235437	01SUTT T	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S156	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S277	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S785	235431	01WOLFRN	235437	01SUTT T	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S157	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S154	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-GD-S782	235431	01WOLFRN	235437	01SUTT T	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S155	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-GD-S765	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S23	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S171	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-IPD-W25	235492	01MTZION	235518	01WESTVA	1	138	201	Winter IPD	Included
2024W1-IPD-S172	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-IPD-S290	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S291	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-W27	235492	01MTZION	235518	01WESTVA	1	138	201	Winter IPD	Included
2024W1-IPD-W26	235492	01MTZION	235518	01WESTVA	1	138	201	Winter IPD	Included
2024W1-IPD-S163	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S284	235296	01BAYS	235389	01POWELM	1	138	201	Summer IPD	Included
2024W1-GD-S774	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S164	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-GD-S454	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S283	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S288	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S289	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S401	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S66	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S214	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer IPD	Included
2024W1-GD-S405	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S215	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer IPD	Included
2024W1-N1-ST87	238184	AF2-356 TAP	235492	01MTZION	1	138/138	201/201	Summer Thermal	Included
2024W1-GD-S403	235389	01POWELM	235296	01BAYS	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S213	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer IPD	Included
2024W1-N1-ST80	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201/201	Summer Thermal	Included
2024W1-N1-ST81	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201/201	Summer Thermal	Included
2024W1-IPD-S259	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S257	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S258	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S413	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S218	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer IPD	Included
2024W1-IPD-S219	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-GD-S778	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S217	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer IPD	Included
2024W1-IPD-S222	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-IPD-S255	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S256	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S220	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-IPD-S253	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S254	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-N1-ST8	235492	01MTZION	235518	01WESTVA	1	138/138	201/201	Summer Thermal	Included
2024W1-N1-ST11	235518	01WESTVA	237506	01CROSSCHOOL	1	138/138	201/201	Summer Thermal	Included
2024W1-IPD-S225	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-IPD-S226	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-N1-ST9	235518	01WESTVA	237506	01CROSSCHOOL	1	138/138	201/201	Summer Thermal	Included
2024W1-GD-S345	238184	AF2-356 TAP	235492	01MTZION	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S223	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-N1-ST10	235518	01WESTVA	237506	01CROSSCHOOL	1	138/138	201/201	Summer Thermal	Included
2024W1-IPD-S224	235492	01MTZION	238184	AF2-356 TAP	1	138	201	Summer IPD	Included
2024W1-IPD-S149	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S270	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S150	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S271	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S147	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-GD-S874	235492	01MTZION	235518	01WESTVA	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S148	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S269	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S151	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S272	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S152	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S229	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-GD-S32	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S230	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S263	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-GD-S348	238184	AF2-356 TAP	235492	01MTZION	1	138	201	Summer Gen Deliv	Included
2024W1-GD-S29	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer Gen Deliv	Included
2024W1-IPD-S227	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included

FG #	Fr Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
2024W1-IPD-S228	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-GD-S359	235235	01FLINTRUN	235100	01FLINTRN	1	500/138	201	Summer Gen Deliv	Included
2024W1-IPD-S145	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S266	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-IPD-S146	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S267	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included
2024W1-N1-ST6	235492	01MTZION	235518	01WESTVA	1	138/138	201/201	Summer Thermal	Included
2024W1-IPD-S231	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-N1-ST7	235492	01MTZION	235518	01WESTVA	1	138/138	201/201	Summer Thermal	Included
2024W1-GD-S358	235235	01FLINTRUN	235100	01FLINTRN	2	500/138	201	Summer Gen Deliv	Included
2024W1-IPD-S144	235492	01MTZION	235518	01WESTVA	1	138	201	Summer IPD	Included
2024W1-IPD-S232	235518	01WESTVA	237506	01CROSSCHOOL	1	138	201	Summer IPD	Included
2024W1-IPD-S265	235296	01BAYS	235431	01WOLFRN	1	138	201	Summer IPD	Included

New Flowgates

Confidential Information

Financial Information

Capital spend start date 01/2025

Construction start date 04/2026

Project Duration (In Months) 59

Additional Comments

Please call or email with any questions.