# **Clean Energy Gateway - Solution A Light**

## **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	294
Project title	Clean Energy Gateway - Solution A Light
Project description	See BPU Supplemental Attachment
Email	Confidential Information
Project in-service date	01/2030
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Confidential Information
Project Components	

- 1. Lighthouse Gateway 500kV Transmission Line #1
- 2. Lighthouse Substation
- 3. Gateway Substation
- 4. Well's Landing Substation
- 5. Midpoint Substation
- 6. Gateway Well's Landing 500kV Transmission Line #1

7. Trenton - Devils Brook 230kV Transmission Interconnection
8. Gilbert - Springfield - Terminal Equipment Upgrades
9. Deans - East Windsor 500kV Transmission Interconnection
10. Lighthouse - Gateway 500kV Transmission Line #2
11. Lighthouse - Gateway 500kV Transmission Line #3
12. Lighthouse - Gateway 500kV Transmission Line #4
13. Trenton - Hunters Glen 230kV Transmission Interconnection
14. Gateway - Well's Landing 500kV Transmission Line #2

### **Greenfield Transmission Line Component**

Component title	Lighthouse - Gateway 500kV Transmission Line #1	
Project description	Confidential Information	
Point A	Lighthouse Substation	
Point B	Gateway Substation	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1125.000000	1609.000000
Winter (MVA)	1229.000000	1758.000000
Conductor size and type	2500mm^2 - XLPE Copper Milliken Shape	
Nominal voltage	AC	
Nominal voltage	500kV	
Line construction type	Underground	
General route description	See BPU Supplemental Attachment Section VI and Section VII	
Terrain description	See BPU Supplemental Attachment Section VI and Section VI	

Right-of-way width by segment	See BPU Supplemental Attachment Section VI and Section VII, specifically Attachment 6-3.
Electrical transmission infrastructure crossings	See BPU Supplemental Attachment 6-3.
Civil infrastructure/major waterway facility crossing plan	See Attachment 6-3 and Attachment 6-6 of the BPU Supplemental Attachment.
Environmental impacts	See BPU Supplemental Attachment Section VI and Section VII
Tower characteristics	Cables will be contained within buried duct banks. See Attachment 3-5 of the BPU Submittal Form.
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	\$246,198,809.64
Component cost (in-service year)	\$280,150,892.13
Greenfield Substation Component	
Component title	Lighthouse Substation
Project description	Confidential Information
Substation name	Lighthouse Substation

Substation description	The Lighthouse Substation will connect submarine cables directly from wind farms or Option 2 proposals. The Lighthouse substation can accommodate up to fifteen (15) submarine cables. Cables can be either 275kV or 345kV. The substation will have four (4) power transformers to step the voltage up to 500kV. The 500kV yard will have four (4) connections to the Gateway 500kV substation and has been designed with space for dynamic reactive support devices and harmonic filter banks necessary for offshore generators to meet power factor and harmonic mitigation requirements. Shunt reactor sizes to connect offshore generators will be determined once offshore wind farm locations are determined.			
Nominal voltage	AC	AC		
Nominal voltage	500 / 345 kV or 275kV			
Transformer Information				
	Name	Capacity (MVA)		
Transformer	Transformer #1	1640 / 2050		
	High Side	Low Side	Tertiary	
Voltage (kV)	500	345 or 275		
	Name	Capacity (MVA)		
Transformer	Transformer #2	1640 / 2050		
	High Side	Low Side	Tertiary	
Voltage (kV)	500	345 or 275		
	Name	Capacity (MVA)		
Transformer	Transformer #3	1640 / 2050		
	High Side	Low Side	Tertiary	
Voltage (kV)	500	345 or 275		

	Name	Capacity (MVA)	
Transformer	Transformer #4	1640 / 2050	
	High Side	Low Side	Tertiary
Voltage (kV)	500	345 or 275	
Major equipment description	See BPU Supplemental Attach	ment.	
	Normal ratings	Emergency ratings	
Summer (MVA)	6600.000000	6600.000000	
Winter (MVA)	6600.000000	6600.000000	
Environmental assessment	See BPU Supplemental Attach	ment Section VI & VII	
Outreach plan	See BPU Supplemental Attachment Section VI & VII		
Land acquisition plan	See BPU Supplemental Attachment Section VI & VII		
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	\$198,499,572.00		
Component cost (in-service year)	\$231,911,585.00		
Greenfield Substation Component			
Component title	Gateway Substation		
Project description	Confidential Information		
Substation name	Gateway Substation		
Substation description		nterconnect four (4) circuits from the Lighthouse substation and two nding Substation. Gateway will have twelve (12) 500kV Gas-Insulated	
Nominal voltage	AC		
Nominal voltage	500kV		
Transformer Information			
None			
Major equipment description		actors - 500kV Two (2) 115MVAR Shunt Reactors - 500kV Twelve (12) Breakers One (1) - +/-450MVAR STATCOM	
	Normal ratings	Emergency ratings	
Summer (MVA)	5190.000000	5190.000000	
Winter (MVA)	5190.000000	5190.000000	
Environmental assessment	See BPU Supplemental Attac	hment Section VI and VII.	
Outreach plan	See BPU Supplemental Attachment Section VI and VII.		
Land acquisition plan		See BPU Supplemental Attachment Section VI and VII.	
	See BPU Supplemental Attac	hment Section VI and VII.	
Construction responsibility	See BPU Supplemental Attac Confidential Information	hment Section VI and VII.	

#### 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 \$109,840,489.00 Component cost (in-service year) \$129,185,793.00 **Greenfield Substation Component** Component title Well's Landing Substation Project description **Confidential Information** Substation name Well's Landing Substation 500 / 230kV Gas-Insulated Substation. Two (2) 500kV underground cables connect from the Substation description Lighthouse substation and are transformed to 230kV. The 230kV substation will have eight (8) circuit breakers and will interconnect the Trenton - Devils Brook and Trenton - Hunters Glen 230kV transmission lines with the two (2) 500kV underground cables. Nominal voltage AC Nominal voltage 500 / 230kV

**Transformer Information** 

	Name	Capacity (MVA)	
Transformer	Transformer #1	1050 / 1300	
	High Side	Low Side	Tertiary
Voltage (kV)	500	230	
	Name	Capacity (MVA)	
Transformer	Transformer #2	1050 / 1300	
	High Side	Low Side	Tertiary
Voltage (kV)	500	230	
Major equipment description	Two (2) 500kV GIS circuit brea transformers Eight (8) 230kV (	akers Two (2) 150MVAR shunt re GIS circuit breakers	actors Two (2) 1050 MVA auto
	Normal ratings	Emergency ratings	
	C C		
Summer (MVA)	2387.000000	2387.000000	
Summer (MVA) Winter (MVA)	-		
	2387.000000	2387.000000 2387.000000	
Winter (MVA)	2387.000000 2387.000000	2387.000000 2387.000000 nment Section VI and VII	
Winter (MVA) Environmental assessment	2387.000000 2387.000000 See BPU Supplemental Attach	2387.000000 2387.000000 mment Section VI and VII mment Section VI and VII	
Winter (MVA) Environmental assessment Outreach plan	2387.000000 2387.000000 See BPU Supplemental Attach See BPU Supplemental Attach	2387.000000 2387.000000 mment Section VI and VII mment Section VI and VII	
Winter (MVA) Environmental assessment Outreach plan Land acquisition plan	2387.000000 2387.000000 See BPU Supplemental Attach See BPU Supplemental Attach See BPU Supplemental Attach	2387.000000 2387.000000 mment Section VI and VII mment Section VI and VII	
Winter (MVA) Environmental assessment Outreach plan Land acquisition plan Construction responsibility	2387.000000 2387.000000 See BPU Supplemental Attach See BPU Supplemental Attach See BPU Supplemental Attach Confidential Information	2387.000000 2387.000000 mment Section VI and VII mment Section VI and VII	
Winter (MVA) Environmental assessment Outreach plan Land acquisition plan Construction responsibility Benefits/Comments	2387.000000 2387.000000 See BPU Supplemental Attach See BPU Supplemental Attach See BPU Supplemental Attach Confidential Information	2387.000000 2387.000000 mment Section VI and VII mment Section VI and VII	
Winter (MVA) Environmental assessment Outreach plan Land acquisition plan Construction responsibility Benefits/Comments <b>Component Cost Details - In Current Year \$</b>	2387.000000 2387.000000 See BPU Supplemental Attach See BPU Supplemental Attach See BPU Supplemental Attach Confidential Information Confidential Information	2387.000000 2387.000000 Inment Section VI and VII	

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	\$59,249,240.38	
Component cost (in-service year)	\$71,949,251.00	
Greenfield Substation Component		
Component title	Midpoint Substation	
Project description	Confidential Information	
Substation name	Midpoint Reactor Substation	
Substation description	Eight (8) 215MVAR shunt reactors - 500kV to compensate for underground cable charging current.	
Nominal voltage	AC	
Nominal voltage	500	
Transformer Information		
None		
Major equipment description	Eight (8) 215MVAR shunt reactor	Drs
	Normal ratings	Emergency ratings
Summer (MVA)	1125.000000	1609.000000
Winter (MVA)	1229.000000	1758.000000

Environmental assessment	See BPU Supplemental Attachment Section VI and VII.
Outreach plan	See BPU Supplemental Attachment Section VI and VII.
Land acquisition plan	See BPU Supplemental Attachment Section VI and VII.
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	\$42,665,649.00
Component cost (in-service year)	\$49,983,711.00
Greenfield Transmission Line Component	
Component title	Gateway - Well's Landing 500kV Transmission Line #1
Project description	Confidential Information
Point A	Gateway Substation
Point B	Well's Landing Substation
Point C	

	Normal ratings	Emergency ratings
Summer (MVA)	1229.000000	1758.000000
Winter (MVA)	1342.000000	1919.000000
Conductor size and type	2500mm^2 - XLPE Copper Mil	liken Shape
Nominal voltage	AC	
Nominal voltage	500	
Line construction type	Underground	
General route description	See BPU Supplemental Attach	ment Section VI & VII
Terrain description	See BPU Supplemental Attach	ment Section VI & VII
Right-of-way width by segment	See BPU Supplemental Attach	ment Section VI & VII
Electrical transmission infrastructure crossings	See BPU Supplemental Attach	ment Section VI & VII
Civil infrastructure/major waterway facility crossing plan	See BPU Supplemental Attach	ment Section VI & VII
Environmental impacts	See BPU Supplemental Attach	ment VII
Tower characteristics	Cables will be contained within Attachment.	buried duct banks. See Attachment 3-5 of the BPU Submittal
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	\$72,789,862.57	
Component cost (in-service year)	\$88,965,937.82	
Transmission Line Upgrade Component		
Component title	Trenton - Devils Brook 230kV	Transmission Interconnection
Project description	Confidential Information	
Impacted transmission line	Trenton - Devils Brook 230kV	
Point A	Trenton	
Point B	Devils Brook	
Point C		
Terrain description	N/A	
Existing Line Physical Characteristics		
Operating voltage	230kV	
Conductor size and type	N/A	
Hardware plan description	N/A	
Tower line characteristics	N/A	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000

	Normal ratings	Emergency ratings
Summer (MVA)	731.000000	887.000000
Winter (MVA)	823.000000	980.000000
Conductor size and type	N/A	
Shield wire size and type	N/A	
Rebuild line length	N/A	
Rebuild portion description	N/A	
Right of way	N/A	
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	\$671,013.00	
Component cost (in-service year)	\$763,651.00	

# Transmission Line Upgrade Component

Component title	Gilbert - Springfield - Terminal Equipment Upgrades	
Project description	Confidential Information	
Impacted transmission line	Gilbert - Springfield	
Point A	Gilbert	
Point B	Springfield	
Point C		
Terrain description	N/A	
Existing Line Physical Characteristics		
Operating voltage	230	
Conductor size and type	N/A	
Hardware plan description	N/A	
Tower line characteristics	N/A	
Proposed Line Characteristics		
	Designed	Operating
Voltage (kV)	230.000000	230.000000
	Normal ratings	Emergency ratings
Summer (MVA)	0.000000	0.000000
Winter (MVA)	805.000000	1031.000000
Conductor size and type	N/A	
Shield wire size and type	N/A	

Rebuild line length	N/A
Rebuild portion description	N/A
Right of way	N/A
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	\$99,750.00
Component cost (in-service year)	\$110,559.00
Transmission Line Upgrade Component	
Component title	Deans - East Windsor 500kV Transmission Interconnection
Project description	Confidential Information
Impacted transmission line	Deans - East Windsor 500kV Transmission Line
Point A	Deans
Point B	Windsor

## Point C

Terrain description	N/A
Existing Line Physical Characteristics	
Operating voltage	500kV
Conductor size and type	N/A
Hardware plan description	N/A
Tower line characteristics	N/A
Proposed Line Characteristics	
	Designed
Voltage (kV)	500.000000
	Normal ratings
Summer (MVA)	2656.000000
Winter (MVA)	2931.000000
Conductor size and type	N/A
Shield wire size and type	N/A
Rebuild line length	N/A
Rebuild portion description	N/A
Right of way	N/A
Construction responsibility	Confidential Information
Benefits/Comments	Confidential Information
Component Cost Details - In Current Year \$	
Engineering & design	Confidential Information

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Operating

500.000000

2983.000000

2983.000000

Emergency ratings

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	\$1,282,050.00
Component cost (in-service year)	\$1,410,014.00
Greenfield Transmission Line Component	

Component title	Lighthouse - Gateway 500kV Transmission Line #2	
Project description	Confidential Information	
Point A	Lighthouse Substation	
Point B	Gateway Substation	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	Normal ratings	Emergency ratings
Summer (MVA) Winter (MVA)	-	
	1125.000000	1609.000000 1758.000000

Nominal voltage

500kV

Line construction type	Underground
General route description	See BPU Supplemental Attachment Section VI and Section VII
Terrain description	See BPU Supplemental Attachment Section VI and Section VII
Right-of-way width by segment	See BPU Supplemental Attachment Section VI and Section VII, specifically Attachment 6-3.
Electrical transmission infrastructure crossings	See BPU Supplemental Attachment 6-3.
Civil infrastructure/major waterway facility crossing plan	See Attachment 6-3 and Attachment 6-6 of the BPU Supplemental Attachment.
Environmental impacts	See BPU Supplemental Attachment Section VI and Section VII
Tower characteristics	Cables will be contained within buried duct banks. See Attachment 3-5 of the BPU Submittal Form.
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	\$246,198,809.64
Component cost (in-service year)	\$280,150,892.13

# Greenfield Transmission Line Component

Component title	Lighthouse - Gateway 500kV Transmission Line #3	
Project description	Confidential Information	
Point A	Lighthouse Substation	
Point B	Gateway Substation	
Point C		
	Normal ratings	Emergency ratings
Summer (MVA)	1125.000000	1609.000000
Winter (MVA)	1229.000000	1758.000000
Conductor size and type	2500mm^2 - XLPE Copper Milliken Shape	
Nominal voltage	AC	
Nominal voltage	500kV	
Line construction type	Underground	
General route description	See BPU Supplemental Attachment Section VI and Section VII	
Terrain description	See BPU Supplemental Attachment Section VI and Section VII	
Right-of-way width by segment	See BPU Supplemental Attachment Section VI and Section VII, specifically Attachment 6-3.	
Electrical transmission infrastructure crossings	See BPU Supplemental Attachment 6-3.	
Civil infrastructure/major waterway facility crossing plan	See Attachment 6-3 and Attachment 6-6 of the BPU Supplemental Attachment.	
Environmental impacts	See BPU Supplemental Attachment Section VI and Section VII	
Tower characteristics	Cables will be contained within buried duct banks. See Attachment 3-5 of the BPU Submittal Form.	
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	\$247,072,934.64		
Component cost (in-service year)	\$286,514,823.02		
Greenfield Transmission Line Component			
Component title	Lighthouse - Gateway 500kV Tr	ansmission Line #4	
Project description	Confidential Information		
Point A	Lighthouse Substation		
Point B	Gateway Substation		
Point C			
	Normal ratings	Emergency ratings	
Summer (MVA)	1125.000000	1609.000000	
Winter (MVA)	1229.000000	1758.000000	

Conductor size and type	2500mm^2 - XLPE Copper Milliken Shape
Nominal voltage	AC
Nominal voltage	500kV
Line construction type	Underground
General route description	See BPU Supplemental Attachment Section VI and Section VII
Terrain description	See BPU Supplemental Attachment Section VI and Section VII
Right-of-way width by segment	See BPU Supplemental Attachment Section VI and Section VII, specifically Attachment 6-3.
Electrical transmission infrastructure crossings	See BPU Supplemental Attachment 6-3.
Civil infrastructure/major waterway facility crossing plan	See Attachment 6-3 and Attachment 6-6 of the BPU Supplemental Attachment.
Environmental impacts	See BPU Supplemental Attachment Section VI and Section VII
Tower characteristics	Cables will be contained within buried duct banks. See Attachment 3-5 of the BPU Submittal Form.
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	\$247,072,934.64		
Component cost (in-service year)	\$286,514,823.02		
Transmission Line Upgrade Component			
Component title	Trenton - Hunters Glen 230kV Transmission Interconnection		
Project description	Confidential Information	Confidential Information	
Impacted transmission line	Trenton - Hunters Glen 230kV	Trenton - Hunters Glen 230kV	
Point A	Trenton		
Point B	Hunters Glen		
Point C			
Terrain description	N/A		
Existing Line Physical Characteristics			
Operating voltage	230kV		
Conductor size and type	N/A		
Hardware plan description	N/A		
Tower line characteristics	N/A		
Proposed Line Characteristics			
	Designed	Operating	
Voltage (kV)	230.000000	230.000000	
	Normal ratings	Emergency ratings	
Summer (MVA)	731.000000	885.000000	
Winter (MVA)	823.000000	980.000000	

Conductor size and type	N/A
Shield wire size and type	N/A
Rebuild line length	N/A
Rebuild portion description	N/A
Right of way	N/A
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	\$671,013.00
Component cost (in-service year)	\$763,708.00
Greenfield Transmission Line Component	
Component title	Gateway - Well's Landing 500kV Transmission Line #2
Project description	Confidential Information
Point A	Gateway Substation

Po	int	В
		_

## Point C

### Well's Landing Substation

	Normal ratings	Emergency ratings		
Summer (MVA)	1229.000000	1758.000000		
Winter (MVA)	1342.000000	1919.000000		
Conductor size and type	2500mm^2 - XLPE Copper Mill	iken Shape		
Nominal voltage	AC			
Nominal voltage	500			
Line construction type	Underground			
General route description	See BPU Supplemental Attachment Section VI & VII			
Terrain description	See BPU Supplemental Attachment Section VI & VII			
Right-of-way width by segment	See BPU Supplemental Attachment Section VI & VII			
Electrical transmission infrastructure crossings	See BPU Supplemental Attachment Section VI & VII			
Civil infrastructure/major waterway facility crossing plan	See BPU Supplemental Attachment Section VI & VII			
Environmental impacts	See BPU Supplemental Attachment VII			
Tower characteristics	Cables will be contained within buried duct banks. See Attachment 3-5 of the BPU Subm Attachment.			
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	\$72,789,862.57
Component cost (in-service year)	\$88,965,937.82
Congestion Drivers	

#### None

# **Existing Flowgates**

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
28-GD-S2-W	9 <b>2</b> 32012	HOPE CREEK	232014	LSPWR CABLE	1	230	225	Gen Deliv (winter)	Included
28-GD-S2-W	9 <b>2</b> 32012	HOPE CREEK	232014	LSPWR CABLE	2	230	225	Gen Deliv (winter)	Included
28-GD-S2-W	9 <b>3</b> 32014	LSPWR CABLE	232013	SILVER RUN	1	230	225	Gen Deliv (winter)	Included
28-GD-S2-S8	206302	280YSTER C	206297	28MANITOU	1	230	228	Gen Deliv (Summer)	Included
28-GD-S2-S9	206302	280YSTER C	206297	28MANITOU	1	230	228	Gen Deliv (Summer)	Included
28-GD-S2-S1	1206302	280YSTER C	206297	28MANITOU	2	230	228	Gen Deliv (Summer)	Included
28-GD-W18	206236	28GILBERT	208091	SFLD	1	230	228/229	Gen Deliv (winter)	Included
35-GD-S2-W	1 <b>8</b> 06236	28GILBERT	208091	SFLD	1	230/230	228/229	Gen Deliv (winter)	Included
28-GD-S66	206316	28WINDSOR	219752	CLRKSVLL_1	1	230	228/231	Gen Deliv (Summer)	Included
28-GD-S2-S3	206316	28WINDSOR	219752	CLRKSVLL_1	1	230	228/231	Gen Deliv (Summer)	Included
28-GD-S72	219104	CLRKSVLL_2	217150	LAWRENCE	1	230	231	Gen Deliv (Summer)	Included
28-GD-L14	218306	DEANS	218304	BRUNSWCK	1	230	231	Light Load - Gen Deliv	Included

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
35-GD-L14	218306	DEANS	218304	BRUNSWCK	1	230	231	Light Load - Gen Deliv	Included
28-GD-S64	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (Summer)	Included
28-GD-S65	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (Summer)	Included
28-GD-W109	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-W108	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-W3	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-W8	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-W6	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-S2-S1	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (Summer)	Included
28-GD-S2-S2	218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (Summer)	Included
28-GD-S2-W	7218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-S2-W	6218306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-S2-W	9 <b>2</b> 18306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-S2-W	9 <b>2</b> 18306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
28-GD-S2-W	9 <b>2</b> 18306	DEANS	218304	BRUNSWCK	1	230	231	Gen Deliv (winter)	Included
35-GD-S2-W	1 <b>2</b> 18306	DEANS	218304	BRUNSWCK	1	230/230	231/231	Gen Deliv (winter)	Included
35-GD-S2-W	1218306	DEANS	218304	BRUNSWCK	1	230/230	231/231	Gen Deliv (winter)	Included
35-GD-S2-W	1 <b>@</b> 18306	DEANS	218304	BRUNSWCK	1	230/230	231/231	Gen Deliv (winter)	Included
35-GD-W4	218306	DEANS	218304	BRUNSWCK	1	230/230	231/231	Gen Deliv (winter)	Included
35-GD-W7	218306	DEANS	218304	BRUNSWCK	1	230/230	231/231	Gen Deliv (winter)	Included
35-GD-W9	218306	DEANS	218304	BRUNSWCK	1	230/230	231/231	Gen Deliv (winter)	Included
35-GD-S2-S2	218306	DEANS	218304	BRUNSWCK	1	230/230	231/231	Gen Deliv (Summer)	Included
28-GD-S73	200006	DEANS C	218306	DEANS	3	500/230	231	Gen Deliv (Summer)	Included
28-GD-S2-S1	32927900	CARDIFF C	219100	NEWFRDM	1	230	231/234	Gen Deliv (Summer)	Included
28-GD-S2-W	1 <b>212</b> 7900	CARDIFF C	219100	NEWFRDM	1	230	231/234	Gen Deliv (winter)	Included
28-GD-S2-W	1 <b>2</b> 7900	CARDIFF C	219100	NEWFRDM	1	230	231/234	Gen Deliv (winter)	Included
28-GD-S2-W	1 <b>32</b> 7900	CARDIFF C	219100	NEWFRDM	1	230	231/234	Gen Deliv (winter)	Included
28-GD-S2-W	1 <b>220</b> 7900	CARDIFF C	219100	NEWFRDM	1	230	231/234	Gen Deliv (winter)	Included

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	СКТ	Voltage	TO Zone	Analysis type	Status
35-GD-S2-S8	A227900	CARDIFF C	219100	NEWFRDM	1	230/230	234/231	Gen Deliv (Summer)	Included
35-GD-S2-W	7227900	CARDIFF C	219100	NEWFRDM	1	230/230	234/231	Gen Deliv (winter)	Included
35-GD-S2-W	3 <b>B</b> 27900	CARDIFF C	219100	NEWFRDM	1	230/230	234/231	Gen Deliv (winter)	Included
35-GD-S2-W	1 <b>08</b> 7900	CARDIFF C	219100	NEWFRDM	1	230/230	234/231	Gen Deliv (winter)	Included
35-GD-S2-W	9 <b>B</b> 27900	CARDIFF C	219100	NEWFRDM	1	230/230	234/231	Gen Deliv (winter)	Included
28-GD-S2-S1	32427934	CARDIFF2	227945	LEWIS #2	1	138	234	Gen Deliv (Summer)	Included
28-GD-S2-S1	3827945	LEWIS #2	227902	LEWIS #1	1	138	234	Gen Deliv (Summer)	Included

## **New Flowgates**

**Confidential Information** 

## **Financial Information**

Capital spend start date	08/2022
Construction start date	09/2026
Project Duration (In Months)	89

## **Cost Containment Commitment**

Cost cap (in current year)

Cost cap (in-service year)

Confidential Information

# Components covered by cost containment

- 1. Lighthouse Gateway 500kV Transmission Line #1 Proposer
- 2. Lighthouse Substation Proposer
- 3. Gateway Substation Proposer
- 4. Well's Landing Substation Proposer
- 5. Midpoint Substation Proposer

6. Gateway - Well's Landing 500kV Transmission Line #1 - Proposer
7. Lighthouse - Gateway 500kV Transmission Line #2 - Proposer
8. Lighthouse - Gateway 500kV Transmission Line #3 - Proposer
9. Lighthouse - Gateway 500kV Transmission Line #4 - Proposer
10. Gateway - Well's Landing 500kV Transmission Line #2 - Proposer

## Cost elements covered by cost containment

Engineering & design	Yes
Permitting / routing / siting	Yes
ROW / land acquisition	Yes
Materials & equipment	Yes
Construction & commissioning	Yes
Construction management	Yes
Overheads & miscellaneous costs	Yes
Taxes	Yes
AFUDC	Yes
Escalation	Yes
Additional Information	Confidential Information
Is the proposer offering a binding cap on ROE?	Yes
Would this ROE cap apply to the determination of AFUDC?	Yes
Would the proposer seek to increase the proposed ROE if FERC finds that a higher ROE would not be unreasonable?	No
Is the proposer offering a Debt to Equity Ratio cap?	Confidential Information
Additional cost containment measures not covered above	Confidential Information

## **Additional Comments**

None