

# Pumphrey-Graceton Transformer Replacement

## General Information

Proposing entity name	BGETO
Company proposal ID	C
PJM Proposal ID	514
Project title	Pumphrey-Graceton Transformer Replacement
Project description	Replace Pumphrey and Graceton Transformers with new transformers.
Project in-service date	06/2025
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	No
Additional benefits	BGE Confidential Information

## Project Components

1. Pumphrey 230/115 kV Transformer
2. Graceton 230/115 kV Transformer

## Substation Upgrade Component

Component title	Pumphrey 230/115 kV Transformer
Substation name	Pumphrey
Substation zone	BGE
Substation upgrade scope	Replace existing transformer in place with new transformer

## Transformer Information

	Name	Capacity (MVA)	
Transformer	Pumphrey 230-1	300	
	High Side	Low Side	Tertiary
Voltage (kV)	230	115	0
New equipment description	New 300 MVA transformer with Ratings of 363/471/540 SN/SE/SLD, 420/510/540 WN/WE/WLD		
Substation assumptions	Replace transformer in same location as existing		
Real-estate description	No Expansion Required		
Construction responsibility	BGE		
Additional comments	NA		

### Component Cost Details - In Current Year \$

Engineering & design	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Permitting / routing / siting	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
ROW / land acquisition	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Materials & equipment	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Construction & commissioning	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Construction management	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Overheads & miscellaneous costs	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements

Contingency	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Total component cost	\$4,692,263.35
Component cost (in-service year)	\$4,929,809.18

**Substation Upgrade Component**

Component title	Graceton 230/115 kV Transformer
Substation name	Graceton
Substation zone	BGE
Substation upgrade scope	Replace existing Graceton 230-1 transformer in place with new transformer

**Transformer Information**

	<b>Name</b>	<b>Capacity (MVA)</b>	
Transformer	Graceton 230-1	500	
		<b>High Side</b>	<b>Low Side</b> <b>Tertiary</b>
Voltage (kV)	230	115	0
New equipment description	New 500 MVA Transformer with ratings of 561/753/892 SN/SE/SLD, 653/843/900 WN/WE/WLD		
Substation assumptions	Replace transformer in same location as existing		
Real-estate description	No substation expansion required		
Construction responsibility	BGE		
Additional comments	NA		

**Component Cost Details - In Current Year \$**

Engineering & design	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
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Overheads & miscellaneous costs	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Contingency	Confidential BGE Detailed Estimate Information Confidential to BGE Supply Chain/Vendor Agreements
Total component cost	\$4,317,495.07
Component cost (in-service year)	\$4,884,849.38

## Congestion Drivers

None

## Existing Flowgates

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type
GD-S483	221855	CONSTITUTION	221215	CONCRD62	1	115	232	Gen Deliv (Summer)
GD-S480	221855	CONSTITUTION	221214	CONCRD64	1	115	232	Gen Deliv (Summer)

## New Flowgates

None

## Financial Information

Capital spend start date	01/2022
Construction start date	10/2022
Project Duration (In Months)	41

## Additional comments

None