

PJM Greenfield

General Information

Proposing entity name	Redacted - Company confidential information
Company proposal ID	Redacted - Company confidential information
PJM Proposal ID	362
Project title	PJM Greenfield
Project description	Build the "Barnyard 500/138 kV Project" in south eastern Pennsylvania. The project will establish a greenfield 500/138 kV station cutting in Whitemarsh-Jenkintown 500 kV circuit on the high side and Montco-Flint and Montco-Barbadoes 138 kV circuits on the low side with a 500/138 kV step-down transformer.
Project in-service date	04/2021
Tie-line impact	No
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Redacted - Company confidential information

Project Components

1. PJM Greenfield

Greenfield Substation Component

Component title	PJM Greenfield
Substation name	Barnyard
Substation description	The project will establish a greenfield 500/138 kV station cutting in Whitemarsh-Jenkintown 500 kV circuit on the high side and Montco-Flint and Montco-Barbadoes 138 kV circuits on the low side with a 500/138 kV step-down transfor

Nominal voltage AC
 Nominal voltage 500/138

Transformer Information

	Name	Capacity (MVA)		
Transformer	Montco 1	500		
	High Side	Low Side	Tertiary	
Voltage (kV)	500	138		
Major equipment description	One 450 MVA, 3 phase, 500/138 kV transformer.			
	Normal ratings	Emergency ratings		
Summer (MVA)	500.000000	600.000000		
Winter (MVA)	450.000000	550.000000		
Environmental assessment	The study area is primarily agricultural. will PJM begin coordination with local, state, and federal agencies in the early stages of the Project to identify potential mitigation and/or avoidance measures. Additionally, the majority of the project parallels an existing extra-high voltage (EHV) line which will minimize new environmental impacts.			
Outreach plan	PJM will begin outreach efforts early in project planning to clearly convey the need for the Project, as well as collect input from interested parties. The station will be located near an existing Whitmarsh substation in an agricultural area near EHV lines and little opposition is expected.			
Land acquisition plan	PJM will use the same land acquisition process and approach that is successfully employed on hundreds of projects every year.			
Construction responsibility	Redacted - Company confidential information			
Additional comments	Redacted - Company confidential information			
Component Cost Details - In Current Year \$				
Engineering & design	Redacted - Company confidential information			

Permitting / routing / siting	Redacted - Company confidential information
ROW / land acquisition	Redacted - Company confidential information
Materials & equipment	Redacted - Company confidential information
Construction & commissioning	Redacted - Company confidential information
Construction management	Redacted - Company confidential information
Overheads & miscellaneous costs	Redacted - Company confidential information
Contingency	Redacted - Company confidential information
Total component cost	\$19,378,476.00
Component cost (in-service year)	\$1,447,583.00

Congestion Drivers

None

Existing Flowgates

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type
N2-ST65	341563	2GREEN CO	324554	2GRENSBRG KU	1	69/69	320/363	SUMMER_N1_THERMAL

New Flowgates

Redacted - Company confidential information

Financial Information

Capital spend start date	08/2020
Construction start date	09/2020
Project Duration (In Months)	8

Cost Containment Commitment

Cost cap (in current year)

Redacted - Company confidential information

Cost cap (in-service year)

Redacted - Company confidential information

Components covered by cost containment

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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

No

Escalation

No

Additional Information

Redacted - Company confidential information

Is the proposer offering a binding cap on ROE?

No

Is the proposer offering a Debt to Equity Ratio cap?

Redacted - Company confidential information

Additional comments

None