

Outerbridge Renewable Connector Project - Additional Offer B - 800MW Proposal

General Information

Proposing entity name	Commercially Sensitive & Proprietary Outerbridge NJ Information
Does the entity who is submitting this proposal intend to be the Designated Entity for this proposed project?	Commercially Sensitive & Proprietary Outerbridge NJ Information
Joint proposal ID	582
Company proposal ID	Commercially Sensitive & Proprietary Outerbridge NJ Information
PJM Proposal ID	171
Project title	Outerbridge Renewable Connector Project - Additional Offer B - 800MW Proposal
Project description	This proposal facilitates an additional injection of 800MW of energy and capacity from one or more Offshore Wind Projects construction to the 230kV system located at Werner Substation through such upgrades to Werner Substation, as may be required. This Additional Offer is contingent upon the selection of either Base Offer 1 or Base Offer 2.
Email	Commercially Sensitive & Proprietary Outerbridge NJ Information
Project in-service date	01/2028
Tie-line impact	Yes
Interregional project	No
Is the proposer offering a binding cap on capital costs?	Yes
Additional benefits	Commercially Sensitive & Proprietary Outerbridge NJ Information

Project Components

1. Outerbridge Collector Station

Greenfield Substation Component

Component title	Outerbridge Collector Station
Project description	Commercially Sensitive & Proprietary Outerbridge NJ Information
Substation name	Outerbridge Collector Station
Substation description	Construct a 275kV AIS onshore station to be located at the Werner site designed to connect 800MW, 275kV lines from offshore wind generators to the new Werner GIS Substation.
Nominal voltage	AC
Nominal voltage	275kV

Transformer Information

None

Major equipment description The two (2) 400MW circuits will have a dedicated breaker as well as a dedicated shunt reactor for reactive support due to the capacitive reactance in the submarine/underground cables. The circuit will be connected to a harmonic filter. A STATCOM will need to be connected to the system to provide fast dynamic reactive response. The 275kV bus will then be connected to a 275/230kV autotransformer. The 230kV side of the autotransformer will feed into the new Werner Substation GIS hall via GIB.

	Normal ratings	Emergency ratings
Summer (MVA)	800.000000	800.000000
Winter (MVA)	800.000000	800.000000
Environmental assessment	Outerbridge NJ will implement soil erosion, spill prevention and stormwater management plans to minimize impacts to sensitive resources on any adjacent properties during construction. There will be traffic, air quality and noise impacts during construction, however, Outerbridge NJ will employ best management practices, such as limiting construction activities during quieter periods and minimizing equipment and vehicle idling to mitigate these potential temporary and transient impacts during converter station construction.	

Outreach plan	<p>Outerbridge NJ recognizes that developing large energy infrastructure projects in the public trust requires a thoughtful and engaged community and stakeholder outreach process that is informed by experience and anchored in empathy and engagement. Outerbridge NJ also recognizes the need to be aware of, and understand, community concerns, which requires being present and listening. Outerbridge NJ understands the importance of transparency and keeping the public informed of the Project plans and benefits as early as possible in the Project development phase. By engaging community stakeholder groups and implementing an educational and marketing strategy, the Project will build its credibility and support in the community, be positioned for long-term success, and help avoid misinformation that could lead to delays or opposition. Outerbridge NJ is committed in all phases of the Project to use the best available science, listen to all stakeholder perspectives to arrive at appropriate decisions and be transparent and open with the public at all times. Outerbridge NJ has been working for several months to engage critical stakeholders in New Jersey and local communities, including leading NGOs; state, county, and municipal officials; state agencies; and others as detailed below.</p>
Land acquisition plan	<p>An affiliate of Outerbridge NJ has acquired the 26-acre land parcel located in South Amboy, New Jersey, which is the site of the retired Werner Generating Station and the 230kV and 138kV JCP&L Werner Substation. The site's industrial waterfront location along the Raritan Bay (which also includes approximately 26 acres of Riparian rights), with access to the Atlantic Ocean and proximity to the New York/New Jersey Bight Wind Energy Areas makes it an ideal interconnection point for offshore wind facilities.</p>
Construction responsibility	Commercially Sensitive & Proprietary Outerbridge NJ Information
Benefits/Comments	Commercially Sensitive & Proprietary Outerbridge NJ Information
Component Cost Details - In Current Year \$	
Engineering & design	Commercially Sensitive & Proprietary Outerbridge NJ Information
Permitting / routing / siting	Commercially Sensitive & Proprietary Outerbridge NJ Information
ROW / land acquisition	Commercially Sensitive & Proprietary Outerbridge NJ Information
Materials & equipment	Commercially Sensitive & Proprietary Outerbridge NJ Information
Construction & commissioning	Commercially Sensitive & Proprietary Outerbridge NJ Information
Construction management	Commercially Sensitive & Proprietary Outerbridge NJ Information
Overheads & miscellaneous costs	Commercially Sensitive & Proprietary Outerbridge NJ Information
Contingency	Commercially Sensitive & Proprietary Outerbridge NJ Information

Total component cost \$108,664,457.00

Component cost (in-service year) \$122,416,733.00

Congestion Drivers

None

Existing Flowgates

FG #	From Bus No.	From Bus Name	To Bus No.	To Bus Name	CKT	Voltage	TO Zone	Analysis type	Status
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-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-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-L14	218306	DEANS	218304	BRUNSWCK	1	230	231	Light Load - Gen Deliv	Included
35-GD-L14	218306	DEANS	218304	BRUNSWCK	1	230	231	Light Load - Gen Deliv	Included

New Flowgates

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Financial Information

Capital spend start date 01/2023

Construction start date 01/2025

Project Duration (In Months) 60

Cost Containment Commitment

Cost cap (in current year) Commercially Sensitive & Proprietary Outerbridge NJ Information

Cost cap (in-service year)

Commercially Sensitive & Proprietary Outerbridge NJ Information

Components covered by cost containment

1. Outerbridge Collector Station - Proposer

Cost elements covered by cost containment

Engineering & design	No
Permitting / routing / siting	No
ROW / land acquisition	No
Materials & equipment	Yes
Construction & commissioning	No
Construction management	No
Overheads & miscellaneous costs	No
Taxes	No
AFUDC	No
Escalation	No
Additional Information	Commercially Sensitive & Proprietary Outerbridge NJ 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?	Commercially Sensitive & Proprietary Outerbridge NJ Information
Additional cost containment measures not covered above	Commercially Sensitive & Proprietary Outerbridge NJ Information

Additional Comments

All attachments contain commercially sensitive, proprietary and confidential Outerbridge NJ market information and should not be publicly disclosed.