

New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility	Atlantic Shores Offshore Wind
BOEM Lease Area	BOEM Renewable Energy Lease Area OCS-A 0499
Applicant	Atlantic Shores Offshore Wind Project 1, LLC
Applicant Website	www.atlanticshoreswind.com
Project Name	[REDACTED]
Primary Contact	
Name	[REDACTED]
Phone 1	[REDACTED]
Phone 2	n/a
E-Mail	[REDACTED]
Address	Brooklyn Navy Yard, Dock 72 Brooklyn, NY 11205

Secondary Contact	
Name	[REDACTED]
Phone 1	[REDACTED]
Phone 2	n/a
E-Mail	[REDACTED]

Capacity and Phasing	
Number of proposed capacity installation phases	[REDACTED] ses)
Is storage included in the Project?	[REDACTED]
Capacity Installation Phase	[REDACTED]
Phase CO Date	[REDACTED]
Phase WTG Nameplate Capacity (MW)	[REDACTED]
Phase Storage Nameplate Capacity (MW)	[REDACTED]
Phase Energy Storage Capacity (MWh)	[REDACTED]
Total WTG Nameplate Capacity (MW)	[REDACTED]
Total Storage Nameplate Capacity (MW)	[REDACTED]
Total Energy Storage Capacity (MWh)	[REDACTED]
First Day of Evaluation Period	[REDACTED]
Last Day of Evaluation Period	[REDACTED]

Performance		
Expected Annual Generation (MWh)	[REDACTED]	(calculated based on first full calendar year that all phases are operating)
Expected Capacity Factor	[REDACTED]	(calculated based on first full calendar year that all phases are operating)
Expected Annual Delivered Energy	[REDACTED]	(calculated based on first full calendar year that all phases are operating)
Expected Capacity Factor (net of losses)	[REDACTED]	(calculated based on first full calendar year that all phases are operating)
Annual OREC Allowance (MWh)	[REDACTED]	
Expected Total OREC Production	[REDACTED]	(calculated based on total delivered energy over the contract term)

New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility Atlantic Shores Offshore Wind
Applicant Atlantic Shores Offshore Wind Project 1, LLC
Project Name [Redacted]

Values entered on this worksheet represent only generation and deliveries from generation. Storage operations should not be included.

12x24 Profile of Expected Generation as a Fraction of Installed Capacity by Month and Hour of Day

Enter values representative of the first year with full installed capacity.

Enter values manually or PASTE AS VALUES only. Do not paste in equations or cell formats.

Table with 13 columns (Month 1-12) and 25 rows (Hour 1-24, Mean, Std Hrs). The main data area is redacted with a black box.

Enter values manually or PASTE AS VALUES only. Do not paste in equations or cell formats.

Month	1	2	3	4	5	6	7	8	9	10	11	12	
Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
2024													
2025													
2026													
2027													
2028													
2029													
2030													
2031													
2032													
2033													
2034													
2035													
2036													
2037													
2038													
2039													
2040													
2041													
2042													
2043													
2044													
2045													
2046													
2047													
2048													
2049													
2050													
2051													
2052													
2053													
2054													
2055													
2056													
2057													
2058													
2059													
2060													
Mean													

CALCULATED from Phase CO Dates and Nameplate Capacities

Month	1	2	3	4	5	6	7	8	9	10	11	12	
Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average
2024													
2025													
2026													
2027													
2028													
2029													
2030													
2031													
2032													
2033													
2034													
2035													
2036													
2037													
2038													
2039													
2040													
2041													
2042													
2043													
2044													
2045													
2046													
2047													
2048													
2049													
2050													
2051													
2052													
2053													
2054													
2055													
2056													
2057													
2058													
2059													
2060													

CALCULATED from Expected Generation Profile and Installed Capacity

Month	1	2	3	4	5	6	7	8	9	10	11	12	
Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2024													
2025													
2026													
2027													
2028													
2029													
2030													
2031													
2032													
2033													
2034													
2035													
2036													
2037													
2038													
2039													
2040													
2041													
2042													
2043													
2044													
2045													
2046													
2047													
2048													
2049													
2050													
2051													
2052													
2053													
2054													
2055													
2056													
2057													
2058													
2059													
2060													

Expected Delivered Energy by Month and Calendar Year (MWh)
CALCULATED from Expected Generation and Delivered Energy as a Fraction of Expected Generation

Month	1	2	3	4	5	6	7	8	9	10	11	12	
Calendar Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2024													
2025													
2026													
2027													
2028													
2029													
2030													
2031													
2032													
2033													
2034													
2035													
2036													
2037													
2038													
2039													
2040													
2041													
2042													
2043													
2044													
2045													
2046													
2047													
2048													
2049													
2050													
2051													
2052													
2053													
2054													
2055													
2056													
2057													
2058													
2059													
2060													

Expected Delivered Energy by Month and Energy Year (MWh)
CALCULATED from Expected Generation and Delivered Energy as a Fraction of Expected Generation

Month	6	7	8	9	10	11	12	1	2	3	4	5	
Energy Year	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
2024													
2025													
2026													
2027													
2028													
2029													
2030													
2031													
2032													
2033													
2034													
2035													
2036													
2037													
2038													
2039													
2040													
2041													
2042													
2043													
2044													
2045													
2046													
2047													
2048													
2049													
2050													
2051													
2052													
2053													
2054													
2055													
2056													
2057													
2058													
2059													
2060													

New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility Atlantic Shores Offshore Wind
Applicant Atlantic Shores Offshore Wind Project 1, LLC
Project Name [Redacted]

(if storage is not offered, data entry cells will be grayed out)
Information entered on this worksheet must be inclusive of all capacity installation phases.

Total Storage Nameplate Capacity (MW) [Redacted]
Total Energy Storage Capacity (MWh) [Redacted]
Maximum Discharge Rate (MW) [Redacted]
Maximum Charge Rate (MW) [Redacted]
Maximum Generation Duration at Full Output (hours) [Redacted]

Table with 2 columns: Calendar Year, Average Annual Cycle Efficiency (%). Rows range from 2024 to 2060. The data area is mostly redacted.

New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility

Atlantic Shores Offshore Wind

Applicant

Atlantic Shores Offshore Wind Project 1, LLC

Project Name

[Redacted]

First Energy Year for evaluation purposes

First Energy Year to generate price string

First Energy Year All-In OREC Purchase Price (\$/OREC)

Escalation Rate

[Redacted]

Energy Year	All-In OREC Purchase Price (\$/OREC)
-------------	--------------------------------------

2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2060

[Redacted]

Transmission System Upgrade Cost Sharing Parameters

Tier 1 Cost Limit (\$)

Tier 2 Cost Limit (\$)

Tier 2 Seller Share

Tier 3 Cost Limit (\$)

Tier 3 Seller Share

Required Rate of Return

P50 Estimate of Required Project TSUC (\$)

P90 Estimate of Required Project TSUC (\$)

Portion of First Energy Year All-In OREC Purchase Price that represents Seller's Share of TSUC (\$/OREC)

[Redacted]

New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility Atlantic Shores Offshore Wind
Applicant Atlantic Shores Offshore Wind Project 1, LLC
Project Name [Redacted]

Please fill in all applicable cells. If a cell is not applicable, enter a zero or leave it blank.

Interconnection Zone [Redacted]

Forecast of Energy Prices (\$/MWh)

Enter energy-weighted values manually or PASTE AS VALUES only. Do not paste in equations or cell formats.

Table with columns for Month (1-12) and Calendar Year (2024-2058), and a Total Energy Revenue (\$) column. The table content is mostly redacted.

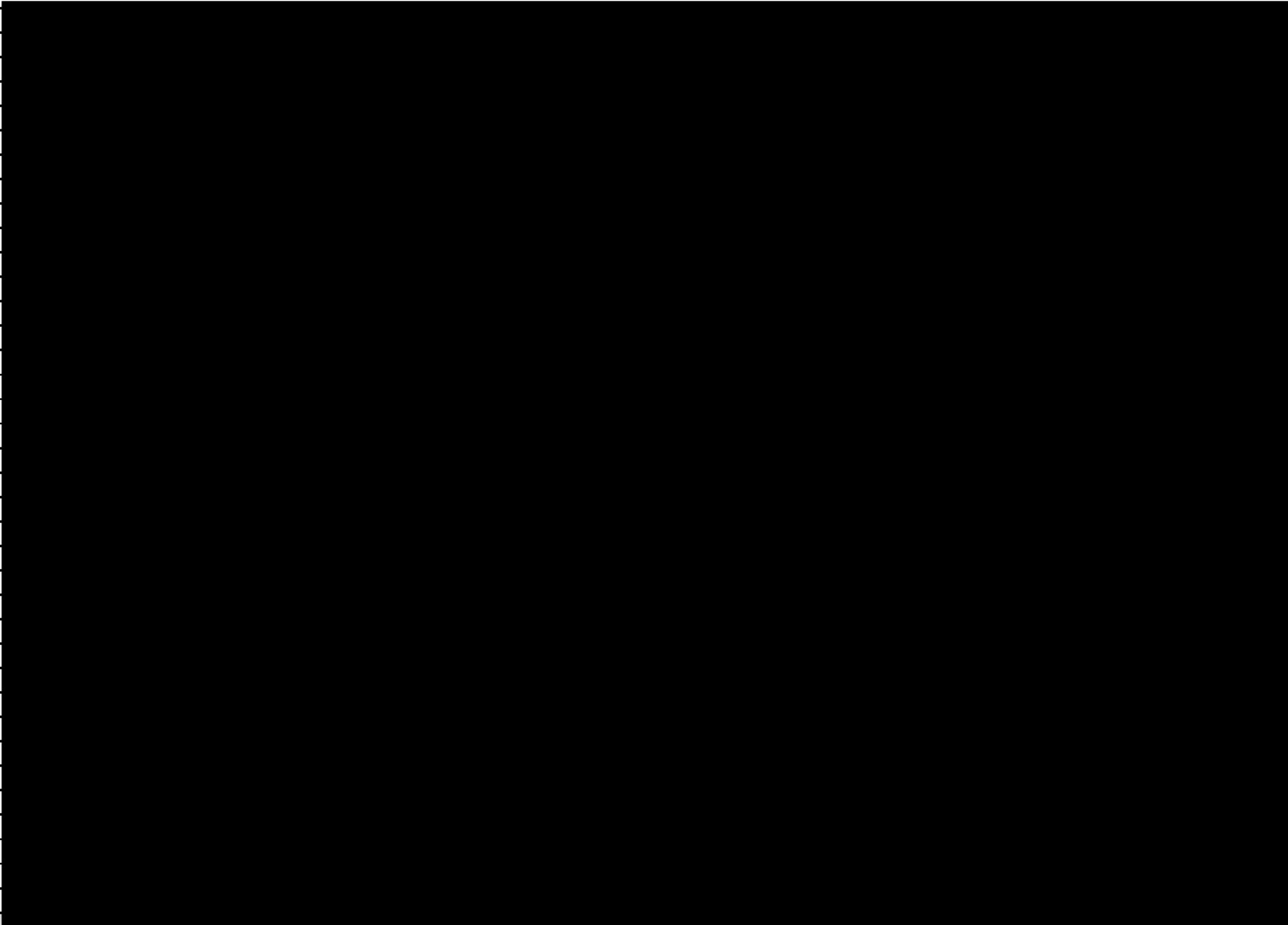
2059													
2060													

Capacity Price Forecast

REC Price Forecast

Energy Year	Capacity Price (\$/MW-day)	UCAP Expected to Clear in BRA (MW)	Total Capacity Revenue (\$)	Energy Year	Class I REC Price (\$/REC)
2024					
2025					
2026					
2027					
2028					
2029					
2030					
2031					
2032					
2033					
2034					
2035					
2036					
2037					
2038					
2039					
2040					
2041					
2042					
2043					
2044					
2045					
2046					
2047					
2048					
2049					
2050					
2051					
2052					
2053					
2054					
2055					
2056					
2057					
2058					
2059					
2060					
Energy Year					

2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035
2036
2037
2038
2039
2040
2041
2042
2043
2044
2045
2046
2047
2048
2049
2050
2051
2052
2053
2054
2055
2056
2057
2058
2059
2060



New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility
 Applicant
 Project Name

Atlantic Shores Offshore Wind
 Atlantic Shores Offshore Wind Project 1, LLC
 [Redacted]

Please fill in all applicable cells. If a cell is not applicable, enter a zero or leave it blank.

Calendar Year	Annual Direct Emissions by Phase (short tons/year)												Avoided Emissions (short tons/year)								
	Development				Construction				Operation				Decommissioning				Operation				
	CO ₂	SO ₂	NO _x	PM _{2.5}	CO ₂	SO ₂	NO _x	PM _{2.5}	CO ₂	SO ₂	NO _x	PM _{2.5}	CO ₂	SO ₂	NO _x	PM _{2.5}	CO ₂	SO ₂	NO _x	PM _{2.5}	
2021																					
2022																					
2023																					
2024																					
2025																					
2026																					
2027																					
2028																					
2029																					
2030																					
2031																					
2032																					
2033																					
2034																					
2035																					
2036																					
2037																					
2038																					
2039																					
2040																					
2041																					
2042																					
2043																					
2044																					
2045																					
2046																					
2047																					
2048																					
2049																					
2050																					
2051																					
2052																					
2053																					
2054																					
2055																					
2056																					
2057																					
2058																					
2059																					
2060																					
Total																					

New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility
 Applicant
 Project Name

Atlantic Shores Offshore Wind
 Atlantic Shores Offshore Wind Project 1, LLC

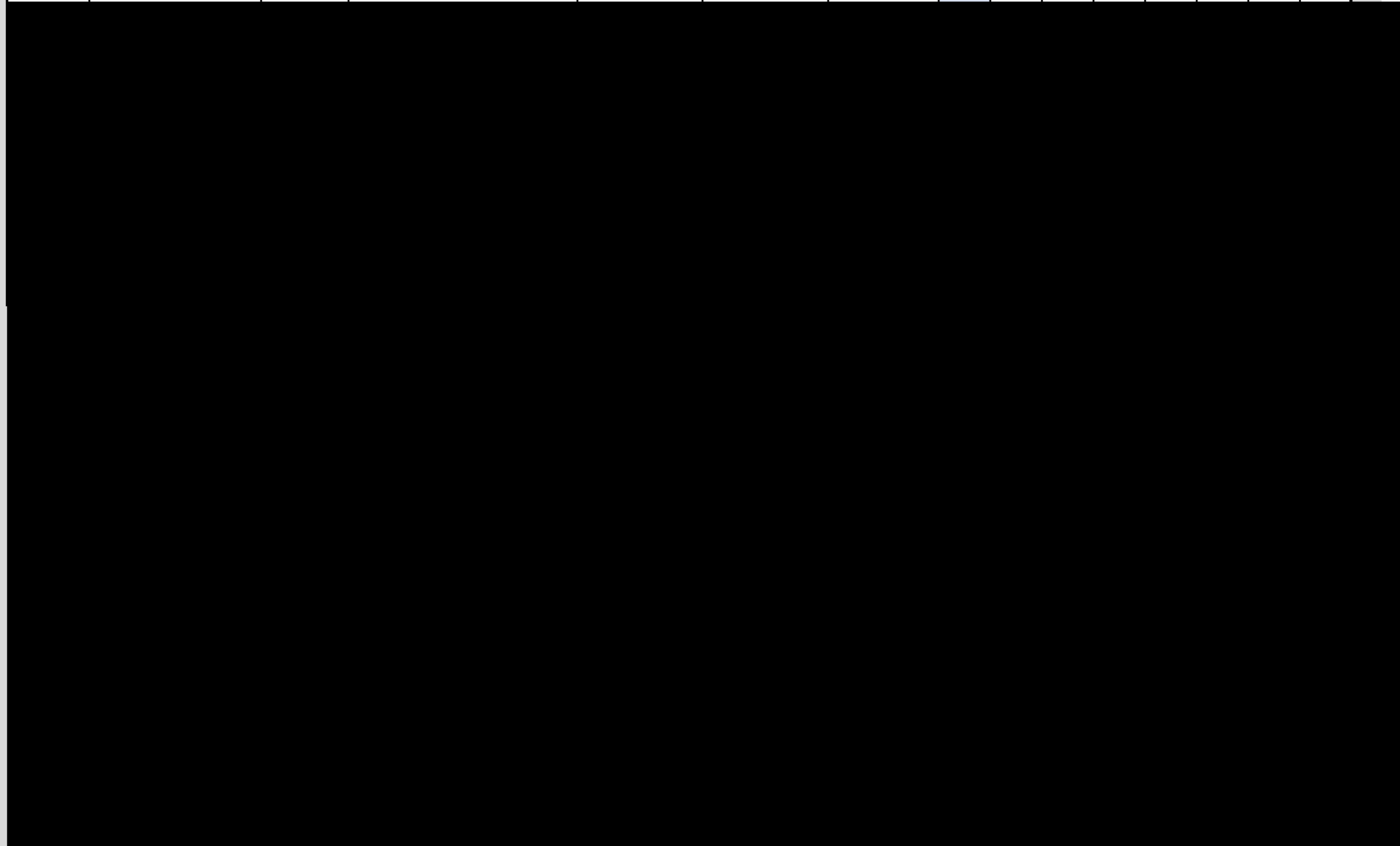


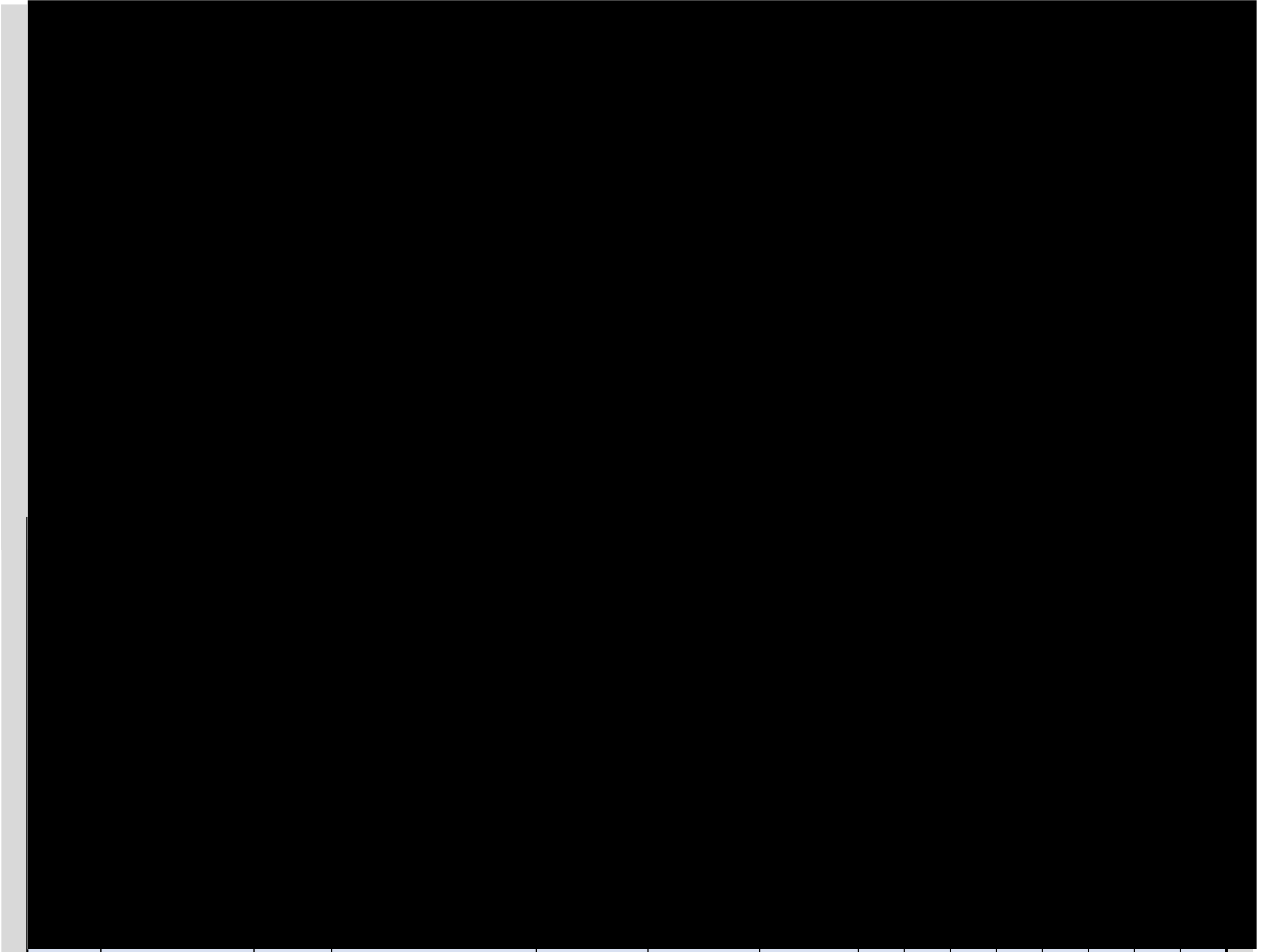
Enter the first year of each phase in Column 1 of the header row
Enter real 2020 \$ (in millions) for all monetary values.
Sub component items may be repeated for the amount assigned to different NAICS industries.
Labor Time and Labor Cost, if either or both provided, will override the BPU model's default input-output parameters.
The Operation Stage bill-of-goods for the last year with values will be extrapolated until decommissioning begins.
More rows, if needed, may be added in each stage's bill-of-goods items.

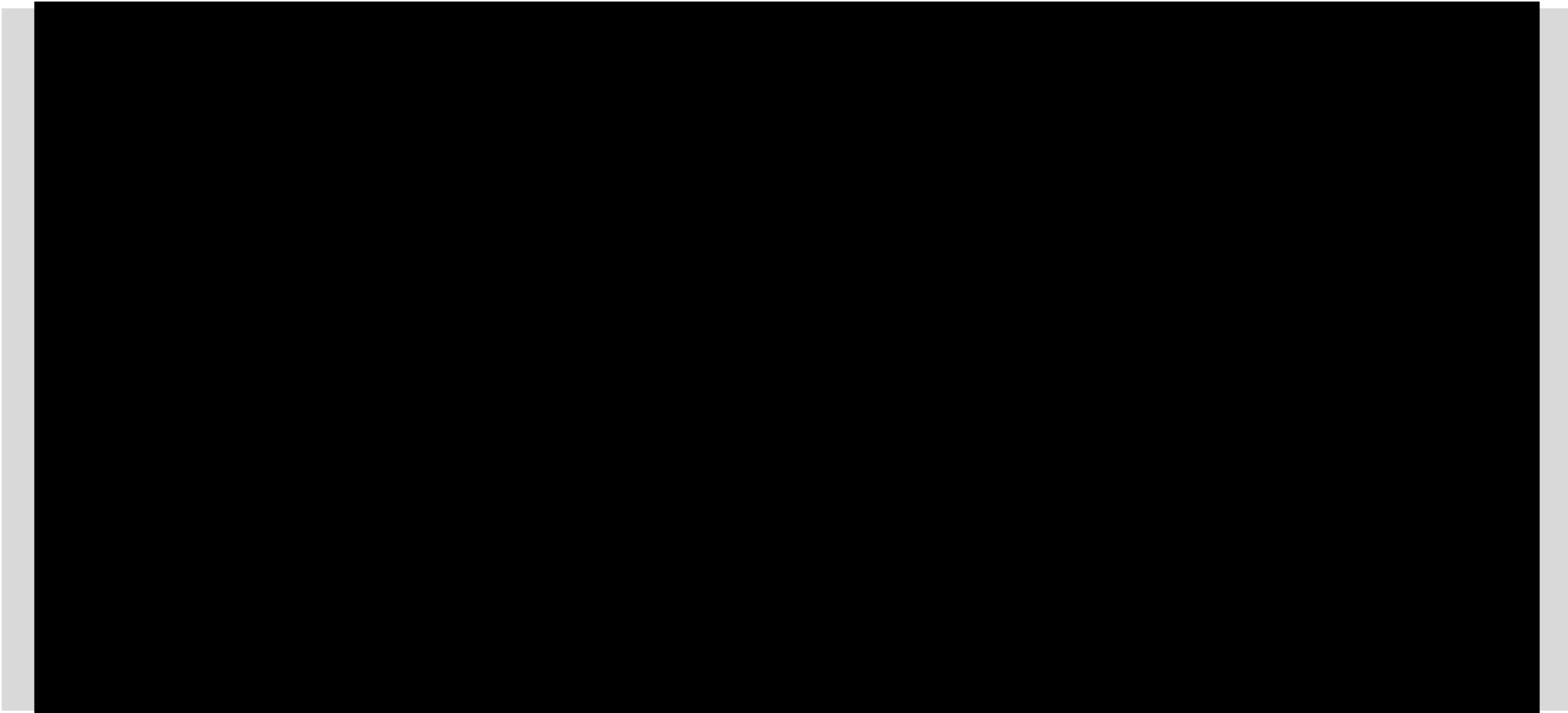
Development Activity Phase Bill-of-Goods

Percentage Share of Costs and Labor by Calendar Year

										Percentage Share of Costs and Labor by Calendar Year											







New Jersey OREC Application Form for Qualified Offshore Wind Projects

Electric Generation Facility
 Applicant
 Project Name

Atlantic Shores Offshore Wind
 Atlantic Shores Offshore Wind Project 1, LLC
 [Redacted]

Please fill in all applicable cells. If a cell is not applicable, enter a zero or leave it blank.
 Enter real 2020 \$ (in millions) for all monetary values.

Expected Annual Direct In-State Jobs Creation, Labor Expenditures, and Total Expenditures by Activity Phase

Calendar Year	Development		Construction			Operation		Decommissioning			
	In-State Jobs	In-State Labor	In-State Jobs	In-State Labor		In-State Jobs	In-State Labor	Total In-State	In-State Jobs	In-State Labor	In-State Total
2021											
2022											
2023											
2024											
2025											
2026											
2027											
2028											
2029											
2030											
2031											
2032											
2033											
2034											
2035											
2036											
2037											
2038											
2039											
2040											
2041											
2042											
2043											
2044											
2045											
2046											
2047											
2048											
2049											
2050											
2051											
2052											
2053											
2054											
2055											
2056											
2057											
2058											
2059											
2060											
Total											

2053
2054
2055
2056
2057
2058
2059
2060
Total

