

Table 1. South Fork Wind: Relative Transmission Distance Compared to nearby Wind Farms (BOEM RI/MA Wind Energy Area)

BOEM Lease	Name	Min. Capacity (MW)	Max. Capacity (MW)	No. of Export Cables	Capacity of Export Cable(s)	Cable Type	Length of Transmission (per cable)	Length of Transmission (total)	Transmission: MW Capacity /Mile	Multiple of South Fork Wind
OCS-A 0517	South For Wind	130		1	138	AC	66.0	66.0	2.0	1.0
OSC-A 0486	Revolution Wind	704	880	2	275	AC	50.0	101.0	7.8	3.9
OCS-A 0487	Sunrise Wind		880	Bundle (2)	320	DC	123.5	123.5	7.1	3.6
OSC-A 0486	Vineyard Wind		800	2	220	AC	49.0	103.3	7.7	3.9
								Average:	7.5	3.8

See South Fork Wind COP, May 2021, Table 3.2-1 (at p. 3-35, or 151 of 630)

See Revolution Wind COP, April 2021 (at p. 6-7, or 69-70 of 835)

See Sunrise Wind COP, August 2021 (at p. 1-2, or 54 of 1,011)

See Vineyard Wind COP, September 2020 (at pp. 3-2 and 3.37, or pp. 48 and 83 of 345)

Offshore cable: 98 Table 3.1-1 (at p. 3-2 or 48 of 345)

Onshore cable: 5.3 Section 3.2.3 (at p. 3-37 or 83 of 345)

103.3

[\(available at boem.gov, click here\)](#)

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Table 2. U.S. Offshore Wind Oftake Agreements near South Fork Wind (BOEM RI/MA Wind Energy Area)

Project	Contract		Duration (Years)	Oftake State	Contract Type	2021 Levelized		Project Size	Power Delivery	Power Purchaser
	Size (MW)	Month/Year Signed				Nominal Price (\$/MWh)				
South Fork	90	Jan 2017	20	NY	PPA	218.61		130	2023	Long Island Power Authority
South Fork	40	Sep 2020	20	NY	PPA	117.60			2023	Long Island Power Authority
<i>See note (below) for verification of South Fork Wind's price of energy.</i>						187.53		130		
						2.4		6.1	16%	
Vineyard Wind 1	400	2018	20	MA	PPA	74.00		800	2023	National Grid, Eversource, Until
Vineyard Wind 1	400	2018	20	MA	PPA	65.00			2024	National Grid, Eversource, Until
Revolution Wind	400	2018	20	RI	PPA	94.43			2023	Eversource, UIL
Revolution Wind	200	2018	20	CT	PPA	99.50		704	2023	Eversource, UIL
Revolution Wind	104	2019	20	CT	PPA	98.43			2023	National Grid
Sunrise Wind	880	2019	25	NY	NY OREC	83.36		880	2024	New York Utilities
Mayflower Wind	400	2020	20	MA	PPA	58.47		804	2025	National Grid, Eversource, Until
Mayflower Wind	404	2020	20	MA	PPA	58.47			2025	National Grid, Eversource, Until
Average:						78.96		797		

Notes: [\(See Contract Encumbrance Request, signed by LIPA CFO, Joseph Branca, click here\).](#)

According to the Long Island Power Authority (LIPA) at the time it awarded a power purchase agreement to South Fork Wind (in January 2017), the average price of power from its 90-megawatt offshore wind facility is \$218.61 (over the twenty-year contract term). See Contract Encumbrance Request, State of New York Form A340, completed by LIPA and signed by LIPA's CFO, Joseph Branca, on January 30, 2017. The Contract Encumbrance Request states the total contract amount of \$1,624,738,893 (for a 20-year term). Also, it includes Projected Energy Deliveries of 371,604 MWh per year (note: the addition of year 0 and year 20 is 371,604). Total Project Energy Deliveries is 7,432,080 MWh over twenty years (371,604 MWh multiplied by 20 years). The total contract value (\$1,624,738,893) divided by the total Projected Energy Deliveries (7,432,080 MWh) is \$218.61 per MWh of energy, or 21.9 cents per kWh.

Calculation:

Project Energy Deliveries:	371,604	(megawatt-hours per year)
Contract Term:	20	(years)
Total Project Energy:	7,432,080	(megawatt-hours)
Total Contract Valuation:	<u>\$1,624,738,893</u>	(over 20-year contract term)
Price of Energy:	\$218.61	(\$ per megawatt-hour)
Price of Energy:	21.9 cents	(cents per megawatt-hour)

Source:

See U.S. Department of Energy, National Renewable Energy Laboratory, 2019 Offshore Wind Technology Data Update, October 2020 (at p. 20 of 79)

Table 3. South Fork Wind Capacity and Price Calculation

Initial 90 MW Contract (executed February 6, 2017)

Nameplate Capacity:	90 MW	(megawatts)
Capacity Factor:	47%	(actual/nameplate)
Actual Output:	42.4 MW	(megawatts)
Given:	1 MW of capacity produces 8,766 MWh average per year over contract term	
Actual Output per Year:	371,604	MWh per year (42.4 MW x 8,766 hours)
Actual Output per Contract:	7,432,080	MWh per year (371,604 MWh x 20 yrs)
Contract Value (90 MW):	\$1,624,738,889	(NYS Comptroller, 20-year term)
Price per Output:	\$218.61	/MWh (dollars per megawatt-hour)
Price per Output:	21.9 c	c/kWh (cents per kilowatt hour)

Expanded 40 MW Contract (executed September, 2020)

Nameplate Capacity:	40 MW	(megawatts)
Capacity Factor:	47%	(actual/nameplate)
Actual Output:	18.8 MW	(megawatts)
Given:	1 MW of capacity produces 8,766 MWh average per year over contract term	
Actual Output per Year:	165,157	MWh per year (18.8 MW x 8,766 hours)
Actual Output per Contract:	3,303,147	MWh per year (165,157 MWh x 20 yrs)
Contract Value (40 MW):	\$388,459,163	(NYS Comptroller, 20-year term)
Price per Output:	\$117.60	/MWh (dollars per megawatt-hour)
Price per Output:	11.8 c	c/kWh (cents per kilowatt hour)

Total Contracted capacity of 130 MW

Nameplate Capacity:	130 MW	(megawatts)
Capacity Factor:	47%	(actual/nameplate)
Actual Output:	61.2 MW	(megawatts)
Given:	1 MW of capacity produces 8,766 MWh average per year over contract term	
Actual Output per Year:	536,761	MWh per year (61.2 MW x 8,766 hours)
Actual Output per Contract:	10,735,227	MWh per year (536,761 MWh x 20 yrs)
Contract Value (130 MW):	\$2,013,198,056	(NYS Comptroller, 20-year term)
Price per Output:	\$187.53	/MWh (dollars per megawatt-hour)
Price per Output:	18.8 c	c/kWh (cents per kilowatt hour)