

## South Fork, Eastern Long Island (May - Aug, 2016)

### Power Demand vs Expected Supply from South Fork Wind \*

Month & Day	Electrical Load (Area 1, 2 & 3)	Wind Farm		Type/Period	OSW Capacity Contribution	South Fork Demand (MW)	Wind Farm Output (132 MW)	Shortfall in Power Supply (MW)	
		Power Output (MW)	Power Variance (-ve shortfall)						
05 01	1,615	322	-1,292						
05 02	1,694	513	-1,181						
05 03	1,572	551	-1,021						
05 04	1,615	1,526	-89						
05 05	1,680	2,940	1,260						
05 06	1,713	2,541	828						
05 07	1,715	923	-791						
05 08	1,585	328	-1,257						
05 09	1,520	814	-706						
05 10	1,511	230	-1,281						
05 11	1,532	192	-1,340						
05 12	1,546	10	-1,537	SUPPLY RISK	0.6%	1,546	10	-1,537	
05 13	1,653	43	-1,611	SUPPLY RISK	2.6%	1,653	43	-1,611	4.2%
05 14	1,673	152	-1,521	SUPPLY RISK	9.1%	1,673	152	-1,521	
05 15	1,608	1,953	345						
05 16	1,634	2,720	1,085						
05 17	1,652	849	-802						
05 18	1,745	126	-1,619	SUPPLY RISK	7.2%	1,745	126	-1,619	
05 19	1,876	16	-1,860	SUPPLY RISK	0.9%	1,876	16	-1,860	3.2%
05 20	1,956	53	-1,903	SUPPLY RISK	2.7%	1,956	53	-1,903	
05 21	1,814	39	-1,775	SUPPLY RISK	2.1%	1,814	39	-1,775	
05 22	1,737	376	-1,361						
05 23	1,726	8	-1,718	SUPPLY RISK	0.5%	1,726	8	-1,718	0.5%
05 24	1,778	315	-1,463						
05 25	1,845	238	-1,607						
05 26	2,110	178	-1,932	SUPPLY RISK	8.4%	2,110	178	-1,932	8.4%
05 27	2,329	412	-1,917						
05 28	2,612	1,154	-1,458						
05 29	2,691	190	-2,501	SUPPLY RISK	7.1%	2,691	190	-2,501	7.1%
05 30	2,378	589	-1,790						
05 31	2,151	262	-1,889						
06 01	2,151	224	-1,927						
06 02	2,003	714	-1,289						
06 03	2,094	123	-1,971	SUPPLY RISK	5.9%	2,094	123	-1,971	4.6%
06 04	2,298	78	-2,220	SUPPLY RISK	3.4%	2,298	78	-2,220	
06 05	2,139	573	-1,567						
06 06	2,403	672	-1,732						
06 07	2,302	390	-1,912						
06 08	2,049	1,278	-771						
06 09	1,920	1,983	64						
06 10	2,107	733	-1,374						
06 11	2,228	344	-1,885						
06 12	2,363	838	-1,525						
06 13	2,089	1,445	-644						
06 14	2,109	882	-1,226						
06 15	2,263	325	-1,937						

Month & Day	Electrical Load (Area 1, 2 & 3)	Wind Farm Power Output (MW)	Power Variance (-ve shortfall)	Type/Period	OSW Capacity Contribution	South Fork Demand (MW)	Wind Farm Output (132 MW)	Shortfall in Power Supply (MW)	
06 16	2,411	75	-2,336	SUPPLY RISK	3.1%	2,411	75	-2,336	4.5%
06 17	2,460	56	-2,404	SUPPLY RISK	2.3%	2,460	56	-2,404	
06 18	2,543	22	-2,521	SUPPLY RISK	0.9%	2,543	22	-2,521	
06 19	2,420	185	-2,235	SUPPLY RISK	7.6%	2,420	185	-2,235	
06 20	2,360	216	-2,145	SUPPLY RISK	9.1%	2,360	216	-2,145	
06 21	2,459	455	-2,004						
06 22	2,575	122	-2,453	SUPPLY RISK	4.7%	2,575	122	-2,453	4.9%
06 23	2,514	19	-2,496	SUPPLY RISK	0.7%	2,514	19	-2,496	
06 24	2,755	178	-2,576	SUPPLY RISK	6.5%	2,755	178	-2,576	
06 25	2,765	270	-2,495	SUPPLY RISK	9.8%	2,765	270	-2,495	
06 26	2,597	55	-2,542	SUPPLY RISK	2.1%	2,597	55	-2,542	
06 27	2,599	370	-2,229						
06 28	2,531	269	-2,262						
06 29	2,840	148	-2,692	SUPPLY RISK	5.2%	2,840	148	-2,692	5.4%
06 30	3,025	171	-2,854	SUPPLY RISK	5.6%	3,025	171	-2,854	
07 01	3,242	352	-2,890						
07 02	3,216	597	-2,620						
07 03	3,077	407	-2,670						
07 04	3,192	736	-2,456						
07 05	3,260	370	-2,890						
07 06	3,552	132	-3,421	SUPPLY RISK	3.7%	3,552	132	-3,421	2.7%
07 07	3,575	64	-3,511	SUPPLY RISK	1.8%	3,575	64	-3,511	
07 08	3,211	849	-2,363						
07 09	2,756	1,165	-1,591						
07 10	2,683	180	-2,502	SUPPLY RISK	6.7%	2,683	180	-2,502	6.5%
07 11	2,707	209	-2,498	SUPPLY RISK	7.7%	2,707	209	-2,498	
07 12	2,823	66	-2,757	SUPPLY RISK	2.3%	2,823	66	-2,757	
07 13	3,063	278	-2,785	SUPPLY RISK	9.1%	3,063	278	-2,785	
07 14	3,237	527	-2,710						
07 15	4,030	236	-3,793	SUPPLY RISK	5.9%	4,030	236	-3,793	3.5%
07 16	4,140	115	-4,025	SUPPLY RISK	2.8%	4,140	115	-4,025	
07 17	4,087	78	-4,009	SUPPLY RISK	1.9%	4,087	78	-4,009	
07 18	3,820	887	-2,933						
07 19	3,435	345	-3,090						
07 20	3,013	107	-2,907	SUPPLY RISK	3.5%	3,013	107	-2,907	3.5%
07 21	3,314	421	-2,893						
07 22	3,897	1,851	-2,046						
07 23	4,457	1,025	-3,432						
07 24	3,890	121	-3,769	SUPPLY RISK	3.1%	3,890	121	-3,769	3.2%
07 25	3,671	118	-3,553	SUPPLY RISK	3.2%	3,671	118	-3,553	
07 26	3,780	484	-3,296						
07 27	3,691	61	-3,630	SUPPLY RISK	1.7%	3,691	61	-3,630	1.0%
07 28	3,824	12	-3,812	SUPPLY RISK	0.3%	3,824	12	-3,812	
07 29	3,661	598	-3,063						
07 30	3,855	18	-3,836	SUPPLY RISK	0.5%	3,855	18	-3,836	0.5%
07 31	3,555	423	-3,132						

Month & Day	Electrical Load (Area 1, 2 & 3)	Wind Farm Power Output (MW)	Power Variance (-ve shortfall)	Type/Period	OSW Capacity Contribution	South Fork Demand (MW)	Wind Farm Output (132 MW)	Shortfall in Power Supply (MW)	
08 01	3,131	1,750	-1,381						
08 02	2,825	1,151	-1,674						
08 03	2,860	546	-2,314						
08 04	2,974	6	-2,968	SUPPLY RISK	0.2%	2,974	6	-2,968	2.5%
08 05	3,253	147	-3,105	SUPPLY RISK	4.5%	3,253	147	-3,105	
08 06	3,942	907	-3,035						
08 07	3,737	169	-3,569	SUPPLY RISK	4.5%	3,737	169	-3,569	
08 08	3,355	97	-3,258	SUPPLY RISK	2.9%	3,355	97	-3,258	2.7%
08 09	3,427	20	-3,408	SUPPLY RISK	0.6%	3,427	20	-3,408	
08 10	3,372	684	-2,688						
08 11	3,971	898	-3,073						
08 12	4,405	1,263	-3,142						
08 13	4,783	720	-4,062						
08 14	4,774	647	-4,127						
08 15	4,288	135	-4,153	SUPPLY RISK	3.2%	4,288	135	-4,153	3.2%
08 16	3,986	447	-3,539						
08 17	4,037	1,617	-2,420						
08 18	3,662	0	-3,662	SUPPLY RISK	0.0%	3,662	0	-3,662	
08 19	3,949	19	-3,930	SUPPLY RISK	0.5%	3,949	19	-3,930	2.0%
08 20	4,037	208	-3,829	SUPPLY RISK	5.2%	4,037	208	-3,829	
08 21	3,959	908	-3,051						
08 22	3,340	1,733	-1,607						
08 23	2,841	542	-2,298						
08 24	3,194	224	-2,970	SUPPLY RISK	7.0%	3,194	224	-2,970	7.0%
08 25	3,428	660	-2,769						
08 26	4,041	916	-3,125						
08 27	3,963	207	-3,755	SUPPLY RISK	5.2%	3,963	207	-3,755	
08 28	3,555	66	-3,489	SUPPLY RISK	1.9%	3,555	66	-3,489	6.3%
08 29	3,704	332	-3,373	SUPPLY RISK	9.0%	3,704	332	-3,373	
08 30	3,325	309	-3,016	SUPPLY RISK	9.3%	3,325	309	-3,016	
08 31	3,472	381	-3,091						
Totals:	348,943	64,318	-284,625	SOUTH FORK WIND: ELECTRICAL SUPPLY RISK					
Average:	2,837	523	-2,314	53 days	4.0%	157,477	6,269	-151,208	4.0%
Summer of 2016 (May 1 to Aug 31):			122 days	Total capacity shortfall: 81.6%					
Supply Risk, Lowest Decile (90% failure):			53 days 4.0%						

**Note:**

\* South Fork Wind power output is based upon 2016 offshore wind speed data (10-minute intervals) provided by the US National Oceanic and Atmospheric Administration (NOAA). Power generation is derived from a Siemens Gamesa (SG 8.0-167 DD) constructed power curve for an offshore wind turbine of 8 MW. A press release dated October 23, 2019, reads: "Ørsted and Eversource have signed a wind turbine contract with Siemens Gamesa Renewable Energy for the joint venture's North East cluster [comprising South Fork, Sunrise Wind and Revolution Wind]. Subject to Ørsted's and Eversource's final investment decision, all three offshore wind farms will install Siemens Gamesa's 8.0 MW turbines."