



2016 NERC Long Term Reliability Assessment

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System & Resource Planning

Load Forecasting Task Force

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Summary of NERC LTRA

- **Documents the long term outlook for the New York Control Area**
 - *Monthly forecast of energy & peak for two years;*
 - *Annual forecast of energy & seasonal peaks for ten years;*
 - *Includes impact of NYISO SCR program and peak impacts of DSM;*
 - *Includes a brief narrative on method;*
 - *New for 2016 was a request for an hourly load shape for one year.*
- **Consistent with the 2016 Gold Book Forecast**
- **Currently satisfies NERC forecasting requirements for MOD 16-21 & new MOD 031-2**

Two Year Forecast by Month

NET ENERGY FOR LOAD - MONTHLY	Year(s)	Unit	JAN (W)	FEB (W)	MAR	APR	MAY	JUN (S)	JUL (S)	AUG (S)	SEP (S)	OCT	NOV	DEC (W)
Net Energy for Load - Prior Year Actual	2015	GWh	14,325	13,467	13,516	11,608	12,694	13,489	15,857	15,849	14,183	12,073	11,867	12,645
Net Energy For Load - Reporting Year Forecast	2016	GWh	13,708	12,428	12,845	11,726	12,258	13,726	15,917	15,569	13,383	12,354	12,088	13,379
Net Energy For Load - Year 1 Forecast	2017	GWh	13,719	12,414	12,812	11,683	12,203	13,660	15,839	15,486	13,306	12,279	12,013	13,299

PEAK HOUR DEMAND - MONTHLY	Year(s)	Unit	JAN (W)	FEB (W)	MAR	APR	MAY	JUN (S)	JUL (S)	AUG (S)	SEP (S)	OCT	NOV	DEC (W)
Peak Hour Demand - Prior Year Actual	2015	MW	24,648	24,144	23,122	19,521	24,285	28,100	31,138	30,543	31,058	20,088	21,086	21,254
Peak Hour Demand - Reporting Year Actual	2016	MW	23,317	23,301										
Peak Hour Demand - Reporting Year Forecast	2016	MW	24,220	22,425	21,624	20,593	25,716	31,114	33,360	31,529	28,569	23,142	21,627	23,651
Peak Hour Demand Year 1 Forecast	2017	MW	24,445	22,633	21,825	20,785	25,718	31,117	33,363	31,532	28,572	23,144	21,669	23,698
Peak Hour Demand - Year 2 Forecast	2018	MW	24,493	22,678										

Ten Year Summer Peak Forecast

DEMAND - SEASONAL	Year(s)	Unit	2015 (S)	2016 (S)	2017 (S)	2018 (S)	2019 (S)	2020 (S)	2021 (S)	2022 (S)	2023 (S)	2024 (S)	2025 (S)	2026 (S)
Peak Hour Demand - Year 2-10 Forecast	2018-2026	MW				33,404	33,477	33,501	33,555	33,650	33,748	33,833	33,926	34,056

DEMAND-SIDE MANAGEMENT	Year(s)	Unit	2015 (S)	2016 (S)	2017 (S)	2018 (S)	2019 (S)	2020 (S)	2021 (S)	2022 (S)	2023 (S)	2024 (S)	2025 (S)	2026 (S)
Energy Efficiency and Conservation	2016-2026	MW		255	585	828	1,009	1,172	1,314	1,426	1,531	1,638	1,749	1,859
Controllable and Dispatchable Demand Response - Total	2016-2026	MW		1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248
Controllable and Dispatchable Demand Response - Available	2016-2026	MW		1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248	1,248

OTHER DEMAND FACTORS	Year(s)	Unit	2015 (S)	2016 (S)	2017 (S)	2018 (S)	2019 (S)	2020 (S)	2021 (S)	2022 (S)	2023 (S)	2024 (S)	2025 (S)	2026 (S)
Behind the Meter Generation	2016-2026	MW		258	363	421	471	518	565	606	645	682	720	747
Distributed Generation	2016-2026	MW		182	222	269	286	296	313	323	337	344	350	356

Ten Year Winter Peak Forecast

DEMAND - SEASONAL	Year(s)	Unit	2015-16 (W)	2016-17 (W)	2017-18 (W)	2018-19 (W)	2019-20 (W)	2020-21 (W)	2021-22 (W)	2022-23 (W)	2023-24 (W)	2024-25 (W)	2025-26 (W)	2026-27 (W)
Peak Hour Demand - Year 2-10 Forecast	2018-2026	MW				24,557	24,617	24,670	24,716	24,790	24,849	24,922	24,981	25,069

DEMAND-SIDE MANAGEMENT	Year(s)	Unit	2015-16 (W)	2016-17 (W)	2017-18 (W)	2018-19 (W)	2019-20 (W)	2020-21 (W)	2021-22 (W)	2022-23 (W)	2023-24 (W)	2024-25 (W)	2025-26 (W)	2026-27 (W)
Energy Efficiency and Conservation	2016-2026	MW		216	423	578	694	800	890	968	1,044	1,121	1,198	1,276
Controllable and Dispatchable Demand Response - Total	2016-2026	MW		842	842	842	842	842	842	842	842	842	842	842
Controllable and Dispatchable Demand Response - Available	2016-2026	MW		842	842	842	842	842	842	842	842	842	842	842

OTHER DEMAND FACTORS	Year(s)	Unit	2015-16 (W)	2016-17 (W)	2017-18 (W)	2018-19 (W)	2019-20 (W)	2020-21 (W)	2021-22 (W)	2022-23 (W)	2023-24 (W)	2024-25 (W)	2025-26 (W)	2026-27 (W)
Behind the Meter Generation	2016-2026	MW		-	-	-	-	-	-	-	-	-	-	-
Distributed Generation	2016-2026	MW		182	222	269	286	296	313	323	337	344	350	356

Ten Year Annual Energy Forecast

NET ENERGY FOR LOAD - ANNUAL	Year(s)	Unit	2018	2019	2020	2021	2022	2023	2024	2025	2026
Net Energy for Load - Year 2-10 Forecast	2018-2026	GWh	158,431	158,099	157,700	156,903	156,785	156,795	156,800	156,779	156,777

The Mission of the New York Independent System Operator, in collaboration with its stakeholders, is to serve the public interest and provide benefit to consumers by:

- *Maintaining and enhancing regional reliability*
- *Operating open, fair and competitive wholesale electricity markets*
- *Planning the power system for the future*
- *Providing factual information to policy makers, stakeholders and investors in the power system*

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