

Additional Megawatts to meet Phase II Target Reserve Proxies

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ESPWG
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Agenda

- ◆ Reserve Margin Table
- ◆ Preliminary Mars Runs
- ◆ MW additions to meet LCR and Target Proxy.

Reserve Margin-YR 1-10

Table : NYCA Peak Load and Resource Margins 2011 through 2020

Year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Peak Load										
NYCA	33,160	33,367	33,737	33,897	34,021	34,193	34,414	34,672	34,986	35,334
Zone J	11,775	11,815	11,925	11,995	12,065	12,120	12,218	12,298	12,404	12,510
Zone K	5384	5432	5455	5470	5489	5554	5586	5631	5685	5771
Resources										
NYCA										
Capacity	40,447	40,647	41,338	41,239	41,239	41,239	41,239	41,239	41,239	41,239
SCR	2065	2091	2151	2165	2171	2180	2193	2210	2230	2251
Total	42,512	42,738	43,489	43,404	43,410	43,419	43,432	43,449	43,469	43,490
Res./Load Ratio	128.20%	128.08%	128.91%	128.05%	127.60%	126.98%	126.20%	125.31%	124.25%	123.08%
Zone J										
Capacity	10,332	10,332	10,332	10,332	10,332	10,332	10,332	10,332	10,332	10,332
SCR	569	571	576	580	583	586	591	594	600	605
Total	10,901	10,903	10,908	10,912	10,915	10,918	10,923	10,926	10,932	10,937
Res./Load Ratio	92.58%	92.28%	91.47%	90.97%	90.47%	90.08%	89.40%	88.84%	88.13%	87.43%
Zone K										
Capacity	6311	6311	6311	6311	6311	6311	6311	6311	6311	6311
SCR	188	189	190	191	191	193	195	196	198	201
Total	6499	6500	6501	6502	6502	6504	6506	6507	6509	6512
Res./Load Ratio	120.71%	119.66%	119.18%	118.87%	118.46%	117.10%	116.47%	115.56%	114.49%	112.84%

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Reserve Margin-YR 10-20

Table : NYCA Peak Load and Resource Margins 2021 through 2030

Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Peak Load										
NYCA	35776	36127	36500	36877	37243	37606	37975	38351	38720	39102
Zone J	12641	12758	12893	13042	13196	13348	13508	13673	13841	14009
Zone K	5842	5915	5989	6060	6127	6197	6271	6349	6425	6508
Resources										
NYCA										
Capacity	41239	41239	41239	41239	41239	41239	41239	41239	41239	41239
SCR	2251	2251	2251	2251	2251	2251	2251	2251	2251	2251
Total	43490	43490	43490	43490	43490	43490	43490	43490	43490	43490
Res./Load Ratio	121.56%	120.38%	119.15%	117.93%	116.77%	115.65%	114.52%	113.40%	112.32%	111.22%
Surplus- Deficit 119.5 % RM	738	318	-128	-578	-1015	-1449	-1890	-2339	-2780	-3237
Zone J										
Capacity	10332	10332	10332	10332	10332	10332	10332	10332	10332	10332
SCR	605	605	605	605	605	605	605	605	605	605
Total	10937	10937	10937	10937	10937	10937	10937	10937	10937	10937
Res./Load Ratio	86.52%	85.73%	84.83%	83.86%	82.88%	81.94%	80.97%	79.99%	79.02%	78.07%
Surplus- Deficit 84 % RM	319	220	107	-18	-148	-275	-410	-548	-689	-831
Zone K										
Capacity	6311	6311	6311	6311	6311	6311	6311	6311	6311	6311
SCR	201	201	201	201	201	201	201	201	201	201
Total	6512	6512	6512	6512	6512	6512	6512	6512	6512	6512
Res./Load Ratio	111.47%	110.09%	108.73%	107.45%	106.28%	105.09%	103.84%	102.58%	101.36%	100.06%
Surplus- Deficit 108.9 % RM	150	71	-10	-88	-160	-236	-317	-402	-484	-575

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Preliminary MARS Results

YEAR	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
NYCA LOLE	0.02	0.03	0.05	0.08	0.13	0.23	0.40	0.52	0.81	1.15

If NYCA LOLE > .1 Compensatory Megawatts will be added to meet Proxies

NYCA Target Reserve Proxy = 119.5 %

Zone J Target Reserve Proxy = 84 %

Zone K Target Reserve Proxy = 108.9 %

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The New York Independent System Operator (NYISO) is a not-for-profit corporation that began operations in 1999. The NYISO operates New York's bulk electricity grid, administers the state's wholesale electricity markets, and provides comprehensive reliability planning for state's bulk electricity system.

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