

2011 CARIS Phase 1: Split Net Imports

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Overview

◆ Updates to reflect some Lessons Learned

- *Separated Net NYCA imports/exports into 'NYCA Imports (\$M)' and 'NYCA Exports (\$M)'*
- *Added 'Total Load Payments (\$M)' which includes 'NYCA Exports (\$M)'*
- *Added 'Total Generator Payments (\$M)' which includes 'NYCA Imports (\$M)'*
- *Added Schedule 1 Fund consistent with Historical Congestion, which is the difference between the 'Total Load Payments' and the 'Total Generation Payments' adjusted for 'NYCA Congestion Rents (\$M)'*
- *Renamed 'Load LBMP Payments (\$M)' to 'Zonal LBMP Payments (\$M)'*
- *Replaced 'System Congestion Rents (\$M)' with 'NYCA Congestion Rents (\$M)'*

CARIS 1 Base Case Summary – Final Report

Table E - 5: Summary of the NYCA Projected CARIS Base Case Metrics (2011-2020) (nominal \$M)

Base Case	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
NYCA-Wide Production Costs (\$M)	4,386	5,035	5,186	5,378	5,631	5,909	6,145	6,434	6,765	7,134
NYCA Demand\$ Congestion (\$M)	709	646	670	636	672	740	796	929	1,023	1,098
Load LBMP Payments (\$M)	7,853	8,765	9,027	9,376	9,822	10,412	10,823	11,348	11,905	12,536
Generator LBMP Payments (\$M)	6,461	7,310	7,488	7,794	8,126	8,775	9,108	9,494	9,907	10,362
Load Pmts Losses (\$M)	418	462	476	500	523	575	599	631	665	707
SO ₂ Costs (\$M)	4	9	9	8	8	9	9	10	10	11
SO ₂ Emissions (Tons)	39,817	29,062	28,308	26,072	24,708	26,773	27,450	28,728	29,322	29,525
CO ₂ Costs (\$M)	87	397	482	568	644	765	827	897	972	1,048
CO ₂ Emissions ('000s Tons)	40,758	39,725	39,353	39,153	38,431	40,251	40,490	40,861	41,198	41,314
NO _x Costs (\$M)	16	19	26	36	35	37	37	38	39	40
NO _x Emissions (Tons)	26,753	23,591	23,299	22,762	22,072	22,995	23,302	23,864	24,160	24,334
LBMP (\$/MWh)	47	52	54	56	58	62	64	66	69	72
System Congestion Rents (\$M)	927	828	847	855	880	926	954	1,052	1,105	1,164

CARIS 1 Base Case Summary

– Lessons Learned

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NYCA Demand\$ Congestion (\$M)	709	646	670	636	672	740	796	929	1,023	1,098
Zonal LBMP Payments (\$M)	7,853	8,765	9,027	9,376	9,822	10,412	10,823	11,348	11,905	12,536
NYCA Exports (\$M)	241	263	277	311	333	387	412	431	449	482
Total Load Payment (\$M)	8,093	9,028	9,304	9,687	10,155	10,799	11,235	11,780	12,354	13,018
Generator LBMP Payments (\$M)	6,461	7,310	7,488	7,794	8,126	8,775	9,108	9,494	9,907	10,362
NYCA Imports (\$M)	1,097	1,224	1,305	1,370	1,477	1,416	1,485	1,577	1,683	1,832
Total Generator Payments (\$M)	7,558	8,534	8,793	9,164	9,603	10,191	10,593	11,071	11,590	12,194
Load Pmts Losses (\$M)	418	462	476	500	523	575	599	631	665	707
SO ₂ Costs (\$M)	4	9	9	8	8	9	9	10	10	11
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LBMP (\$/MWh)	47	52	54	56	58	62	64	66	69	72
NYCA Congestion Rents (\$M)	269	239	245	231	239	272	291	344	385	413
Sched 1 Fund (\$M)	266	255	266	292	312	336	351	364	379	411

The New York Independent System Operator (NYISO) is a not-for-profit corporation responsible for operating the state's bulk electricity grid, administering New York's competitive wholesale electricity markets, conducting comprehensive long-term planning for the state's electric power system, and advancing the technological infrastructure of the electric system serving the Empire State.



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