

NYISO Program Snapshot: Distributed Energy Resources Participation Model (DER PM)

Updated 11-2024

About the NYISO DER PM

The NYISO DER PM realizes the full capabilities of Distributed Energy Resource (DER) aggregation into virtual power plants (VPPs)

- Provides energy, ancillary services and capacity in the NYISO markets
- Expands revenue opportunities for DER asset owners and C&I energy users
- Gives energy users unprecedented access to existing markets as if they were a power plant





About the NYISO DER PM

- DERs of at least 10 kW aggregated into VPPs of at least 100 kW can simultaneously provide wholesale services to the grid operator and retail services to utilities and load servers
- Solar arrays, battery energy storage, building management systems and electric vehicle charging stations aggregated as VPPs can help large energy users earn up to a 35% increase in revenue compared to current programs
- Customers with automated technology are particularly well-positioned because NYISO incentivizes within minutes response-to-dispatch





Revenue Increase with DER PM vs. SCR, DSASP and CSRP

Current State (\$/MW-Year)										
NY Programs	SCR	DSASP CSRP		DLRP	Total					
NGRID	\$34,560	\$50,000	\$13,750	\$0	\$98,310					
ConEd	\$124,200	\$72,000	\$90,000	\$90,000	\$376,200					
	*Assumes 64%CAF in				-					

NGRID and 69% CAF in

ConEd.

Future State - DER Participation Model (\$/MW-Year)							
NY Programs	Capacity	Ancillary Services	RT Energy	CSRP	DLRP	Total	
NGRID	\$54,000	\$50,000	\$15,000	\$13,750	\$0	\$132,750	135%
ConEd	\$180,000	\$72,000	\$15,000	\$90,000	\$90,000	\$447,000	↑19%
	*Assumes 100% CAF in both NGRID and ConEd.		*Assumes \$200/MWh strike price for energy. Decreases to \$2,000 if \$1,000/MWh strike price.				



DER PM Overview

Capacity, Energy, Ancillary Services					
DMNC Test (Dependable Maximum Net Capability) required each season prior to Capacity market participation.					
Economic. Performance required when offers clear in the Energy and/or Reserve market.					
Hourly revenue grade metering and 6-second telemetry.					
Capacity resources must submit offers daily into the Day-Ahead Energy Market					
Capacity is cleared seasonally (May-Oct. Nov-April). Otherwise dispatch window is 24/7 determined by cleared offers & system conditions.					
Ability to be a 2, 4, 6, 8 hour or unlimited capacity resource. Longer duration resource achieves higher Capacity Accreditation Factor.					
Yes					
Capacity: No. Energy: Yes. Reserves: Yes					
Yes for underperformance.					
Capacity (\$/kW-mo): Monthly Auction clearing price. Energy (\$/MWh) and Reserves (\$/MW and \$/MWh): Market clearing prices.					
Capacity & Energy: Economic Customer Baseline Load is (roughly) the average customer usage in each hourly interval of top 5 days out of last 10 eligible weekdays. Weekends differ slightly.					
Full response required within 10-minutes for 10-minute Reserves or within 30-minutes for 30-minute Reserves.					
Yes. Ability to follow NYISO basepoints required.					
Must be properly permitted.					
Capacity/Energy: Dependent on Energy offer and clearing price. Ancillary: Dependent on customer location. Typically 1-5 times per year.					
Dependent on location and offer parameters. Capacity: \$50k - \$180k. Ancillary: \$50k - \$75k. Energy: \$0 - 25k.(\$/MW-year)					