

Education on BTMG Performance Obligations

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MIC Special Session

BTMG Business Rules on Status Changes

June 3, 2021

- No PJM operational performance requirements for “retail” BTMG
- MWs that are operating in Non-Retail BTMG (NRBTMG) status during emergency events are subject to NRBTMG operational performance requirement
- MWs that are operating in Generation Capacity Resource and/or Energy Resource status or PJM Load Response status during emergency events are subject to Non-Performance Assessment

- NRBTMG is required to operate during the first 10 occurrences of Maximum Generation Emergency conditions in the zone where the unit resides between the period of November 1 through October 31
 - Applies to MGE condition called for generation or transmission emergencies
- MGE Action and Deploy All Resources Action trigger requirement to operate
 - Operate at maximum net or gross electrical power output, subject to equipment stress limits of unit
- Performance of a unit during emergency event will be measured against an expected performance level of such unit



*Excludes generation output that was participating in PJM Markets



Unit Performance Shortfall



- Excused MWs may be granted due to scheduled outages or transmission restrictions
- No excused MWs for scheduled outages that occur during emergency events from June through September

Net Shortfall for Wholesale Area

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pjm | Capacity Exchange

Compliance Year: 11/01/2019-10/31/2020 Events: EMERGENCY EVENT 1 Refresh XML CSV

Expected Performance | **Event Performance** | Netting Reduction

PJMTST >> 11/01/2019-10/31/2020 >> EMERGENCY EVENT 1 Row Count: 5

Zone	Area	Unit ID	Unit Name	Start Time	Stop Time	Expected Performance MW	Average Output MW	Excused MW Due To Scheduled	Excused MW Due to Transmissior Restriction	Unit Performance Shortfall MW
▼ AEP	AREA2									-0.3
AEP	AREA2	9900	NRBTMG LFG UNIT 1	01/15/2020 06:30	01/15/2020 08:45	2.9	3.400			-0.5
AEP	AREA2	9901	NRBTMG SOLAR UNIT 2	01/15/2020 06:30	01/15/2020 08:45	0.8	0.600			0.2
▼ DAY	AREA3									1.1
DAY	AREA3	9902	NRBTMG DIESEL UNIT 3	01/15/2020 06:30	01/15/2020 08:45	4.2	3.200			1.1

Net Shortfall

Wholesale area with positive net shortfall subject to netting reduction penalty

Unit Performance Shortfalls netted for NRBTMG units in wholesale area

Total Netting Reduction for Wholesale Area

**Event Netting
Reduction**



10% of the Net Performance Shortfall for
wholesale area for the emergency event

**Total Netting
Reduction**

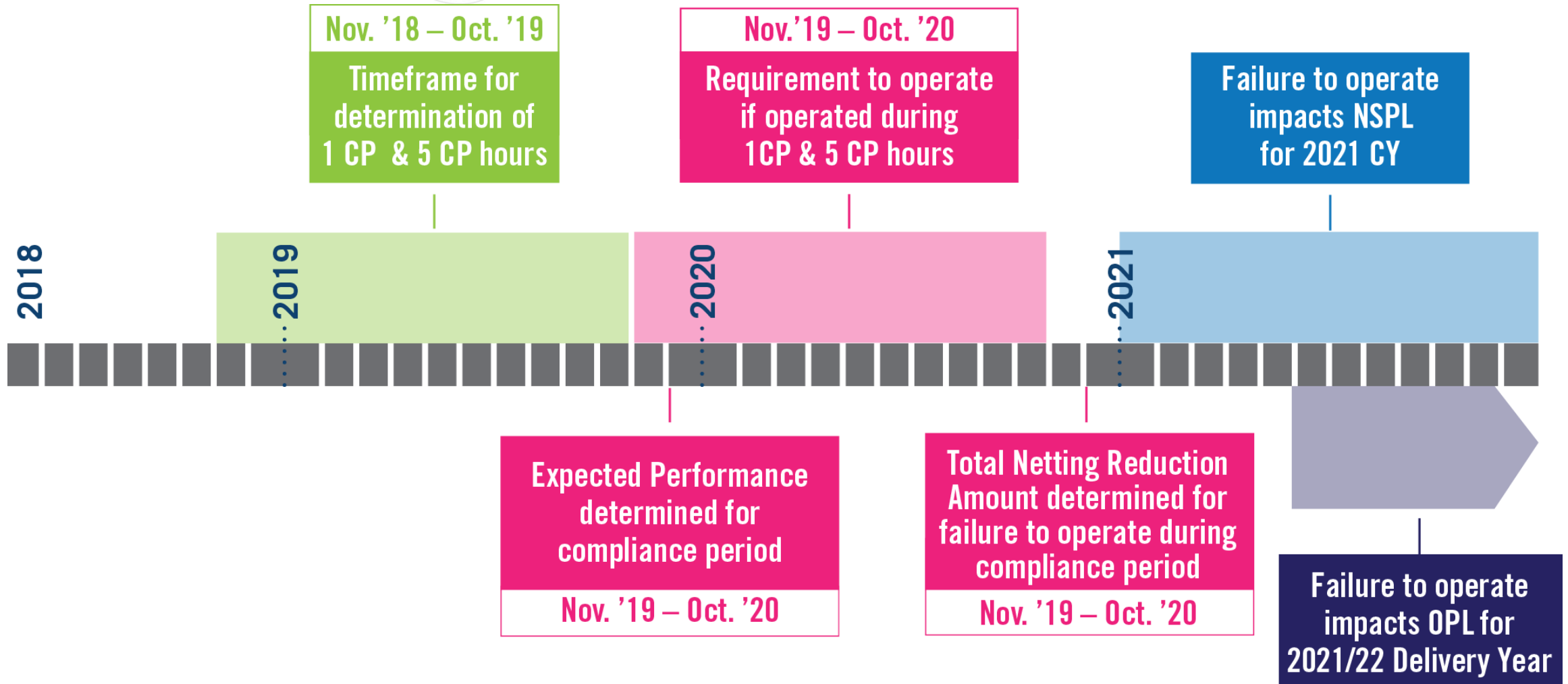


Sum of event netting reduction amounts for
wholesale area for the first 10 emergency
events in compliance period

	Area Gross Load (MW)	Operating NRBTMG (MW)	Total Netting Reduction Amount (MW)	Operating NRBTMG Minus Total Reduction Amount (MW)	Area Net Load (MW)
Zonal 1 CP Hour	10	5	3	2	8

- EDC is to account for total netting reduction amount in procedures for calculating wholesale area's NSPL or OPL for subsequent calendar year/delivery year
- Operating Non-Retail BTMG that is eligible to net against the wholesale area's actual load during the relevant coincident peak hours is to be reduced by total netting reduction amount
- Results in an upward adjustment to NSPL and OPL for wholesale area

NRBTMG Performance Obligation Timeline



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MIC Special Session – Behind the Meter Generation Business Rules on Status Changes



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