

# Frequency of Shortage Conditions

September 09, 2022  
EPFSTF

# Frequency of Shortage Conditions (2012-2017)

Date	Shortage Locations	Shortage Products	Total Number of Intervals / Max. Consecutive Intervals	Reason for Shortage
January 6, 2014	MAD & RTO	Primary and Synchronized Reserves	12 / 12	Voltage Reduction Action for RTO
January 7, 2014	MAD & RTO	Primary and Synchronized Reserves	59 / 54	Reserve shortage
September 21, 2017*	RTO	Synchronized Reserves	2	Reserve shortage
	MAD & RTO	Primary Reserves	19 / 12	Reserve shortage
October 31, 2017*	MAD & RTO	Synchronized Reserves	1 / 1	Reserve shortage

\*Only short the Extended Reserve Requirement (Step 2 of ORDC)



# Frequency of Shortage Conditions (2018-Present)

Year	Shortage Locations	Shortage Products	Total Number of Intervals / Max. Consecutive Intervals	Reason for Shortage
2018	MAD & RTO	PR and SR	5 / 2	Reserve Shortage
2019	MAD & RTO	PR and SR	35 / 4	Reserve Shortage
2020	MAD & RTO	PR and SR	8 / 2	Reserve Shortage
2021	MAD & RTO	PR and SR	24 / 3	Reserve Shortage
2022	MAD & RTO	PR and SR	55 / 32	Reserve Shortage