

2022 Frequency Bias Settings

Effective: **6/1/2022**

Eastern Interconnection

Adjustments: AEC & SOCO

BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2022 FBS MW/0.1Hz	2021 FBS MW/0.1Hz	Peak Demand (MW) (2020 FERC 714)	2022 L ₁₀	2021 L ₁₀	OY 2022 BA FRO MW/0.1Hz
AEC	Fixed	No	No	0	0.0	0	0.0	0.0	0.0
AECI	Fixed	No	No	-39.7	-40.5	4,770	42.2	43.5	-7.0
CHC	Fixed	No	No	-1.1	-1.9	11	7.0	9.4	-0.2
CPL	Fixed	No	No	-112.3	-113.6	13,233	71.0	72.8	-19.7
DUK	Fixed	No	No	-179.2	-184.5	20,398	89.7	92.8	-31.5
FMPP	Fixed	No	No	-29.1	-28.3	3,466	36.2	36.3	-5.1
FPC	Fixed	No	No	-84.5	-81.6	11,121	61.6	61.7	-14.8
FPL	Fixed	No	No	-225.9	-215.6	24,432	100.8	100.3	-39.7
GLHB	Fixed	No	No	-4	-3.7	-	13.4	13.1	-0.4
GVL	Fixed	No	No	-3.3	-3.4	422	12.2	12.6	-0.6
HST	Fixed	No	No	-0.5	-0.5	117	4.7	4.8	-0.1
IESO	Fixed	No	No	-243.3	-240.1	24,446	104.6	105.9	-42.7
ISNE	Fixed	No	No	-183	-182.6	25,105	90.7	92.3	-32.1
JEA	Fixed	No	No	-29.1	-22.4	2,706	36.2	32.3	-3.4
LGEE	Fixed	No	No	-54.4	-58.6	6,661	49.4	52.3	-9.6
MHEB	Fixed	No	No	-55.1	-51.0	4,759	49.8	48.8	-9.7
MISO	Fixed	No	No	-1049.3	-1,115.0	111,551	217.2	228.1	-184.2
NBPSO	Fixed	No	Yes	-25.5	-25.6	3,405	33.9	34.6	-4.5
NSPI	Fixed	Yes	No	-18.3	-18.3	2,050	28.7	29.2	-3.2
NYIS	Fixed	No	No	-244.5	-244.5	30,660	104.8	106.8	-42.9
PJM	Fixed	No	No	-1354.3	-1,360.6	144,530	246.7	252.0	-237.8
SC	Fixed	No	No	-36.2	-60.9	4,467	40.3	53.3	-6.4
SCEG	Fixed	No	No	-44.3	-45.1	4,586	44.6	45.9	-7.8
SEC	Fixed	No	No	-11.5	-34.7	284	22.7	40.2	-2.0
SEPA	Fixed	No	No	-2.2	-1.9	-	9.9	9.4	-0.4
SOCO	Fixed	No	No	-421.8	-421.8	45,479	137.7	140.3	-71.7
SPA	Fixed	No	No	-16.8	-20.4	122	27.5	30.9	-1.3
SPC	Fixed	No	No	-33.62	-42.3	3,722	38.9	44.4	0.0
SWPP	Variable	No	No	-270.2	-344.4	48,687	110.2	126.8	-80.4
TAL	Fixed	No	No	-4.6	-4.8	576	14.4	15.0	-0.8
TEC	Fixed	No	No	-36.4	-36.4	4,255	40.4	41.2	-6.4
TVA	Fixed	No	No	-267.5	-272.6	28,930	109.7	112.8	-47.0
Total EI FBS				-5,081				Total EI IFRO	-913

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Western Interconnection										
BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2022 FBS MW/0.1Hz	2021 FBS MW/0.1Hz	Peak Demand (MW) (2020 FERC 714)	2022 L ₁₀	2021 L ₁₀	OY 2022 BA FRO MW/0.1Hz	
AESO	Fixed	No	No	-148.8	-155.2	11,816	65.7	68.0	-102.8	
AVA	Fixed	No	No	-55.1	-64.6	2,153	40.0	43.8	-15.1	
AVRN	Fixed	No	No	-7.5	-8.9	-	14.8	16.3	-5.1	
AZPS	Fixed	No	No	-100.2	-99.0	7,611	53.9	54.3	-38.8	
BANC	Fixed	No	No	-64.6	-66.5	4,546	43.3	44.5	-19.0	
BCHA	Variable	No	No	-121.9	-121.4	11,541	59.5	60.1	-83.5	
BPAT	Variable	No	No	-165.7	-166.7	9,418	69.3	70.4	-95.6	
CFE	Fixed	No	No	-44.2	-37.3	3,076	35.8	33.3	-18.2	
CHPD	Fixed	No	No	-23.6	-28.9	463	26.2	29.3	-4.6	
CISO	Fixed	No	No	-344.5	-356.2	46,970	100.0	103.0	-237.9	
DEAA	Fixed	No	No	-3.3	-1.1	-	9.7	5.7	-0.8	
DOPD	Fixed	No	No	-13.3	-7.3	416	19.6	14.7	-2.3	
EPE	Fixed	No	No	-12.6	-13.4	2,147	19.1	20.0	-8.7	
GCPD	Fixed	No	No	-39.0	-39.0	850	33.6	34.1	-7.6	
GRID	Fixed	No	No	-24.5	-30.2	-	26.7	30.0	-8.8	
GRIF	Fixed	No	No	-8.2	-8.8	-	15.4	16.2	-0.9	
GWA	Fixed	No	No	-0.6	-0.5	-	4.2	3.9	-0.4	
HGMA	Fixed	No	No	-7.02	-3.0	-	14.3	9.4	0.0	
IID	Fixed	No	No	-3.8	-6.0	1,123	10.5	13.4	-2.6	
IPCO	Variable	No	No	-39.1	-40.3	3,723	33.7	34.6	-21.9	
LDWP	Fixed	No	No	-76.9	-57.9	6,734	47.3	41.5	-30.5	
NEVP	Fixed	No	No	-63.1	-66.7	9,058	42.8	44.6	-43.6	
NWMT	Fixed	No	No	-18.6	-21.8	1,799	23.2	25.5	-12.8	
PACE	Fixed	No	No	-92.0	-94.3	9,078	51.7	53.0	-63.5	
PACW	Fixed	No	No	-62.9	-64.0	3,750	42.7	43.6	-25.3	
PGE	Fixed	No	No	-34.4	-35.1	3,824	31.6	32.3	-23.8	
PNM	Fixed	No	No	-24.4	-41.7	2,665	26.6	35.2	-16.8	
PSCO	Fixed	No	No	-97.0	-85.0	9,249	53.1	50.3	-59.5	
PSEI	Fixed	No	No	-36.7	-36.7	4,545	32.6	33.0	-25.3	
SCL	Fixed	No	No	-35.0	-52.0	1,755	31.9	39.3	-9.9	
SRP	Fixed	No	No	-52.4	-57.2	7,714	39.0	41.3	-36.2	
TEPC	Fixed	No	No	-74.1	-69.8	3,390	46.4	45.6	-20.3	
TIDC	Fixed	No	No	-12.6	-9.4	688	19.1	16.7	-2.9	
TPWR	Fixed	No	No	-25.7	-26.8	894	27.3	28.3	-4.9	
WACM	Fixed	No	No	-46.6	-52.30	3,362	36.8	39.5	-32.2	
WALC	Fixed	No	No	-17.9	-22.76	1,839	22.8	26.0	-12.4	
WAUW	Fixed	No	No	-2.0	-3.0	159	7.6	9.4	-0.8	
WWA	Fixed	No	No	-0.6	-0.6	-	4.2	4.2	-0.4	
Total WI FBS				-2,000					Total WI FRO	-1,096

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ERCOT Interconnection										
BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2022 FBS MW/0.1Hz	2021 FBS MW/0.1Hz	Peak Demand (MW) (2020 FERC 714)	2022 L10	2021 L10	OY 2022 BA FRO MW/0.1Hz	
ERCOT	Fixed	N/A	N/A	-895	-789.3	73,825	N/A	N/A	-412.0	
Québec Interconnection										
BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2022 FBS MW/0.1Hz	2021 FBS MW/0.1Hz	Peak Demand (MW) (2020 FERC 714)	2022 L10	2021 L10	OY 2022 BA FRO MW/0.1Hz	
HQT	Variable	N/A	N/A	N/A	N/A	0	N/A	N/A	-179.0	