

2024 Frequency Bias Settings Eastern Interconnection							Effective:	6/26/2024		
BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2024 FBS MW/0.1Hz	2023 FBS MW/0.1Hz	Peak Demand (MW) (2022 FERC 714)	2024 L10	2023 L10	OY 2024 BA FRO MW/0.1Hz	
AECI	Fixed	No	No	-43.80	-39.80	2,204	45.3	42.6	-7.3	
CHC	Fixed	No	No	-1.54	-0.90	27	8.5	6.4	-0.1	
CPLD	Fixed	No	No	-118.00	-113.70	14,071	74.4	72.0	-19.7	
DUK	Fixed	No	No	-190.90	-183.60	21,277	94.7	91.5	-31.9	
FMPP	Fixed	No	No	-33.20	-31.70	3,808	39.5	38.0	-5.6	
FPC	Fixed	No	No	-89.00	-82.90	11,729	64.6	61.5	-14.9	
FPL	Fixed	No	No	-240.80	-244.10	26,709	106.3	105.4	-40.3	
GVL	Fixed	No	No	-3.50	-3.50	425	12.8	12.6	-0.6	
HST	Fixed	No	No	-0.50	-0.5	92	4.8	4.8	-0.1	
IESO	Fixed	No	No	-248.40	-237.80	22,607	108.0	104.1	-41.6	
ISNE	Fixed	No	No	-193.70	-188.30	24,749	95.4	92.6	-32.4	
JEA	Fixed	No	No	-19.10	-19.78	2,816	29.9	30.0	-3.2	
LGEE	Fixed	No	No	-57.10	-55.40	6,886	51.8	50.2	-9.6	
MHEB	Fixed	No	No	-57.50	-51.00	4,798	52.0	48.2	-9.6	
MISO	Fixed	No	No	-1134.80	-1,093.30	117,455	230.8	223.2	-190.0	
NBPSO	Fixed	No	Yes	-26.20	-25.20	3,760	35.1	33.9	-4.4	
NSPI	Fixed	Yes	No	-18.70	-18.10	2,216	29.6	28.7	-3.1	
NYIS	Fixed	No	No	-244.90	-239.70	30,505	107.2	104.5	-41.0	
PJM	Fixed	No	No	-1421.10	-1,379.50	147,716	258.3	250.7	-237.9	
SC	Fixed	No	No	-48.00	-42.80	5,385	47.5	44.2	-6.7	
SCEG	Fixed	No	No	-41.90	-43.80	4,723	44.4	44.7	-7.0	
SEC	Fixed	No	No	-11.60	-11.50	467	23.3	22.9	-1.9	
SEPA	Fixed	No	No	-1.44	-3.20	0	8.2	12.1	-0.2	
SOCO	Fixed	No	No	-417.60	-373.39	47,832	140.0	130.4	-69.9	
SPA	Fixed	No	No	-10.70	-19.41	136	22.4	29.7	-1.0	
SPC	Fixed	No	No	-43.80	-42.70	3,801	45.3	44.1	-7.3	
SWPP	Variable	No	No	-280.30	-280.30	72,534	114.7	113.0	-83.7	
TAL	Fixed	No	No	-5.00	-4.60	592	15.3	14.5	-0.8	
TEC	Fixed	No	No	-38.30	-36.60	4,385	42.4	40.8	-6.4	
TVA	Fixed	No	No	-266.60	-282.90	28,923	111.9	113.5	-44.6	
<b>Total EI FBS</b>				<b>-5308.0</b>				<b>Total EI IFRO</b>	<b>-922.8</b>	

**2024 Frequency Bias Settings**

Effective:

6/26/2024

**Western Interconnection**

BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2024 FBS MW/0.1Hz	2023 FBS MW/0.1Hz	Peak Demand (MW) (2022 FERC 714)	2024 L10	2023 L10	OY 2024 BA FRO MW/0.1Hz
AESO	Fixed	No	No	-162.20	-150.80	12,253	66.9	64.1	-98.2
AVA	Fixed	No	No	-60.64	-55.00	2,514	40.9	38.7	-15.0
AVRN	Fixed	No	No	-7.50	-9.80	0	14.4	16.3	-4.6
AZPS	Fixed	No	No	-62.40	-74.60	7,562	41.5	45.1	-37.3
BANC	Fixed	No	No	-52.71	-45.10	4,882	38.1	35.0	-15.8
BCHA	Variable	No	No	-102.18	-116.60	11,965	53.1	56.4	-79.1
BPAT	Variable	No	No	-157.90	-161.10	11,068	66.0	66.2	-90.7
CFE	Fixed	No	No	-30.00	-27.70	3,323	28.8	27.5	-18.2
CHPD	Fixed	No	No	-15.90	-15.40	556	20.9	20.5	-4.4
CISO	Fixed	No	No	-375.30	-344.80	51,479	101.7	96.9	-227.3
DEAA	Fixed	No	No	-1.80	-1.20	0	7.0	5.7	-1.1
DOPD	Fixed	No	No	-18.90	-13.00	517	22.8	18.8	-1.5
EPE	Fixed	No	No	-13.10	-12.20	2,200	19.0	18.2	-7.9
GCPD	Fixed	No	No	-32.62	-42.00	984	30.0	33.8	-7.3
GRID	Fixed	No	No	-28.29	-17.40	0	27.9	21.8	-8.2
GWA	Fixed	No	No	-0.50	-0.60	0	3.7	4.0	-0.3
HGMA	Fixed	No	No	-2.50	-7.02	0	8.3	13.8	-1.5
IID	Fixed	No	No	-4.50	-4.40	1,095	11.1	10.9	-2.7
IPCO	Variable	No	No	-36.40	-40.60	3,953	31.7	33.3	-19.6
LDWP	Fixed	No	No	-58.66	-58.30	6,823	40.2	39.8	-21.7
NEVP	Fixed	No	No	-69.00	-64.30	9,919	43.6	41.8	-41.8
NWMT	Fixed	No	No	-21.20	-18.80	2,073	24.2	22.6	-12.9
PACE	Fixed	No	No	-103.90	-94.10	9,556	53.5	50.6	-62.9
PACW	Fixed	No	No	-35.80	-40.70	3,989	31.4	33.3	-21.7
PGE	Fixed	No	No	-44.62	-44.70	4,227	35.1	34.9	-23.1
PNM	Fixed	No	No	-27.70	-25.90	2,787	27.6	26.6	-16.8
PSCO	Fixed	No	No	-97.20	-80.00	8,885	51.8	46.7	-50.2
PSEI	Fixed	No	No	-40.10	-37.50	5,154	33.3	32.0	-24.3
SCL	Fixed	No	No	-28.00	-32.00	1,915	27.8	29.5	-9.5
SRP	Fixed	No	No	-53.70	-50.50	7,691	38.5	37.1	-43.8
TEPC	Fixed	No	No	-53.60	-73.50	3,294	38.4	44.7	-17.0
TIDC	Fixed	No	No	-8.30	-9.20	720	15.1	15.8	-2.8
TPWR	Fixed	No	No	-13.11	-14.30	971	19.0	19.7	-4.6
WACM	Fixed	No	No	-60.00	-63.80	4,802	40.7	41.7	-36.4
WALC	Fixed	No	No	-17.70	-19.00	1,755	22.1	22.7	-10.7
WAUW	Fixed	No	No	-2.00	-2.00	166	7.4	7.4	-0.9
WWA	Fixed	No	No	-0.60	-0.60	0	4.1	4.0	-0.4
<b>Total WI FBS</b>				<b>-1,900.5</b>	<b>Total WI FRO</b>				<b>-1,042.2</b>

<b>2024 Frequency Bias Settings</b>							<b>Effective:</b>		<b>6/26/2024</b>
<b>ERCOT Interconnection</b>									
BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2024 FBS MW/0.1Hz	2023 FBS MW/0.1Hz	Peak Demand (MW) (2022 FERC 714)	2024 L10	2023 L10	OY 2024 BA FRO MW/0.1Hz
ERCOT	Fixed	N/A	N/A	-895.0	-895.0	80,147	N/A	N/A	-395.0
<b>Québec Interconnection</b>									
BA	Bias Type	Receive Overlap Reg	Provide Overlap Reg	2024 FBS MW/0.1Hz	2023 FBS MW/0.1Hz	Peak Demand (MW) (2022 FERC 714)	2024 L10	2023 L10	OY 2024 BA FRO MW/0.1Hz
HQT	Variable	N/A	N/A	N/A	N/A	-	N/A	N/A	-211.0