



2032 ADS PCM V2.3.1 Results

November 30, 2022

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Staff Engineer

Colstrip Units 3 and 4

- Retire Colstrip Unit 3 in 2025.
- Keep Unit 4 as is.

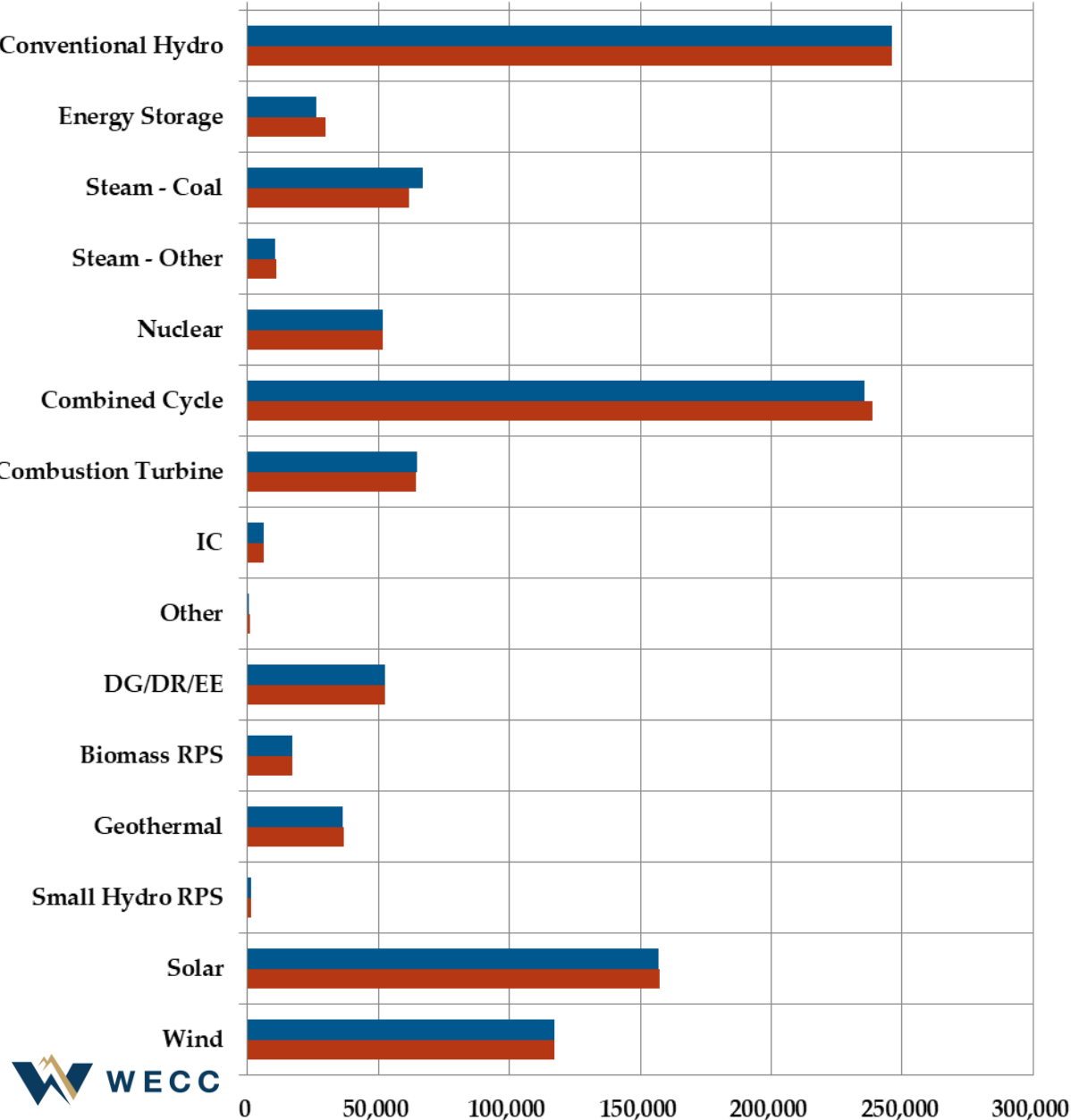
Boardman to Hemmingway Project

- The project was given the go ahead from Idaho Power, PacifiCorp, and BPA just for the ADS.
- It was added online to the reference PF and PCM; includes the following:
 - Topology updates
 - Path definitions and rating updates:
 - P14 Idaho to Northwest
 - P82 TotBeast

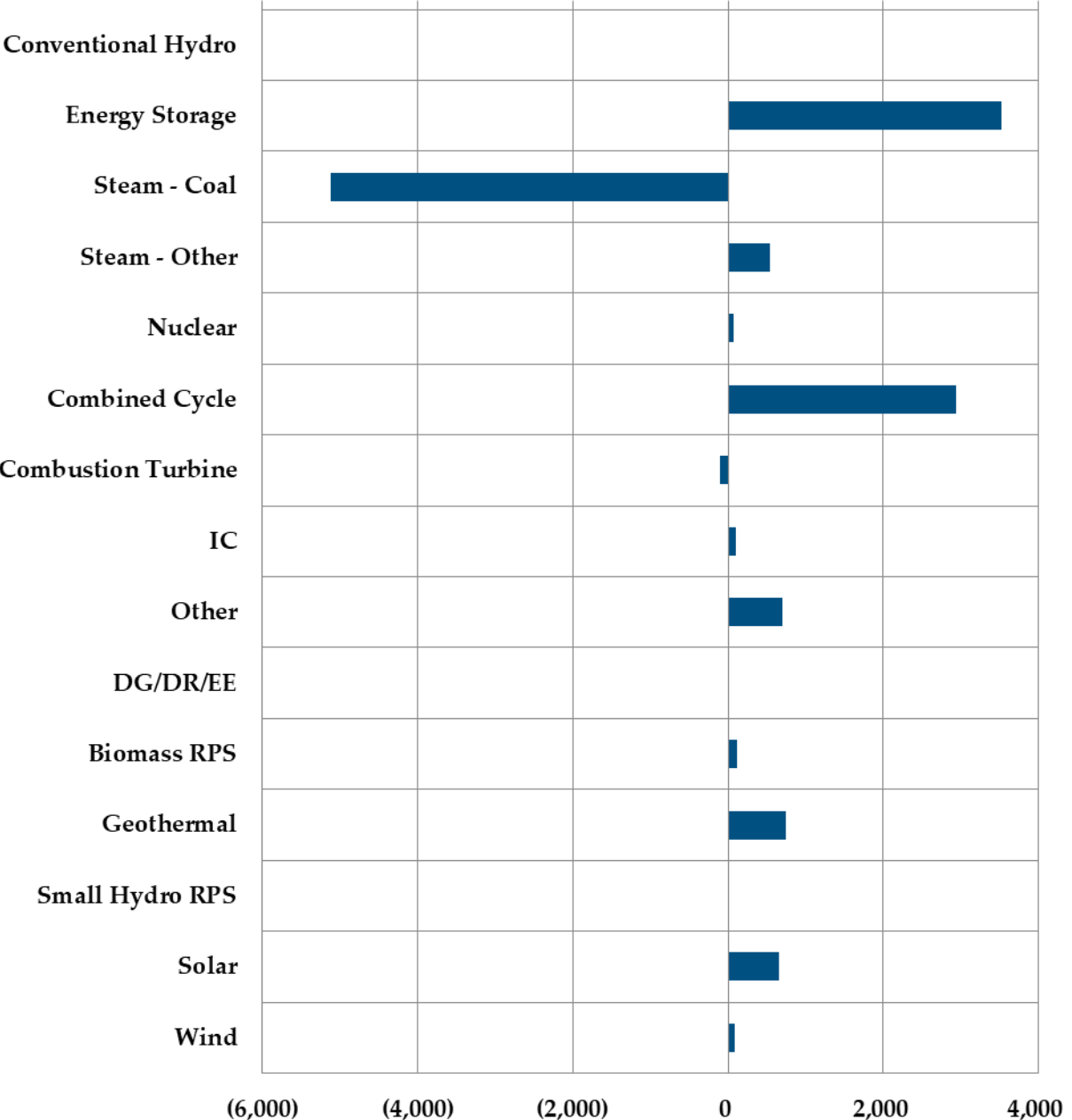
Generation Dispatch

Annual Generation by Category (GWh)

2032 ADS v2.1 2032 ADS v2.3.1 Total Increase = 4,227

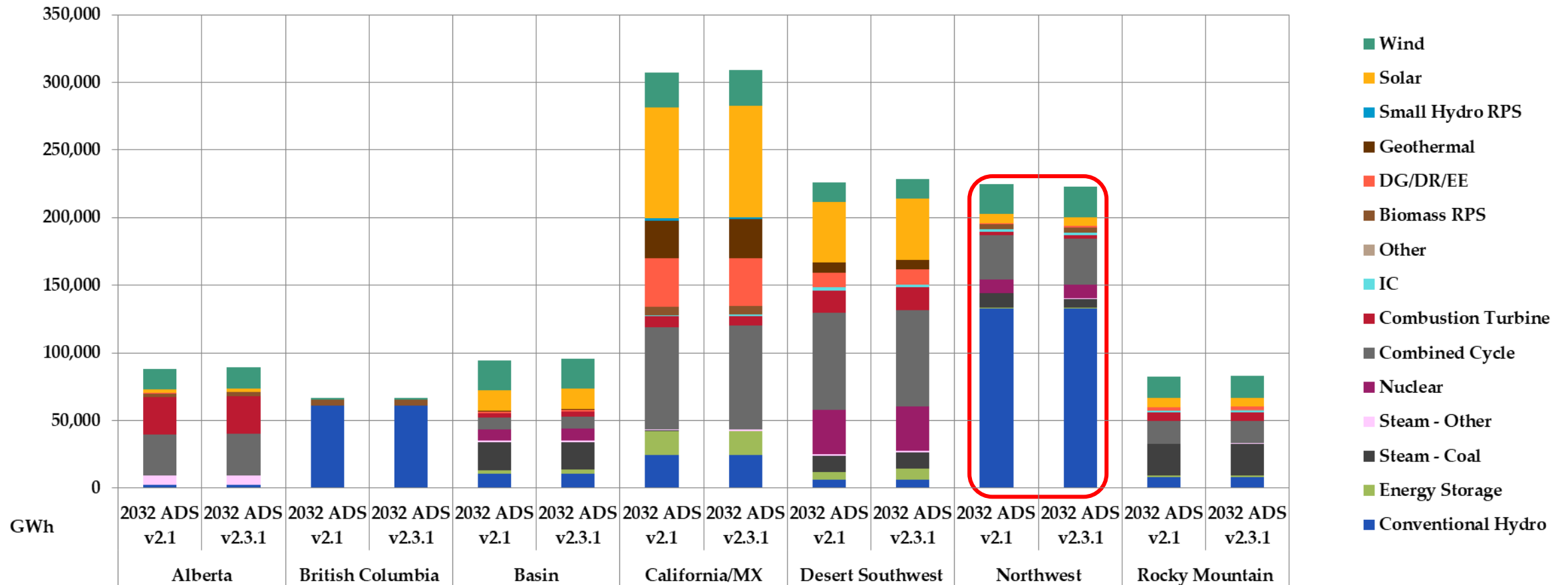


Annual Energy Difference (GWh): 2032 ADS v2.3.1 vs 2032 ADS v2.1



Subregion Comparison

Comparison by Subregion - Case_1 (2032 ADS v2.1) vs. Case_2 (2032 ADS v2.3.1)



Change in Annual Dump Energy (MWh)

Change in Annual Dumped Gen (MWh) by State and Type - 2032 ADS v2.3.1 vs 2032 ADS v2.1



Changes in LMP

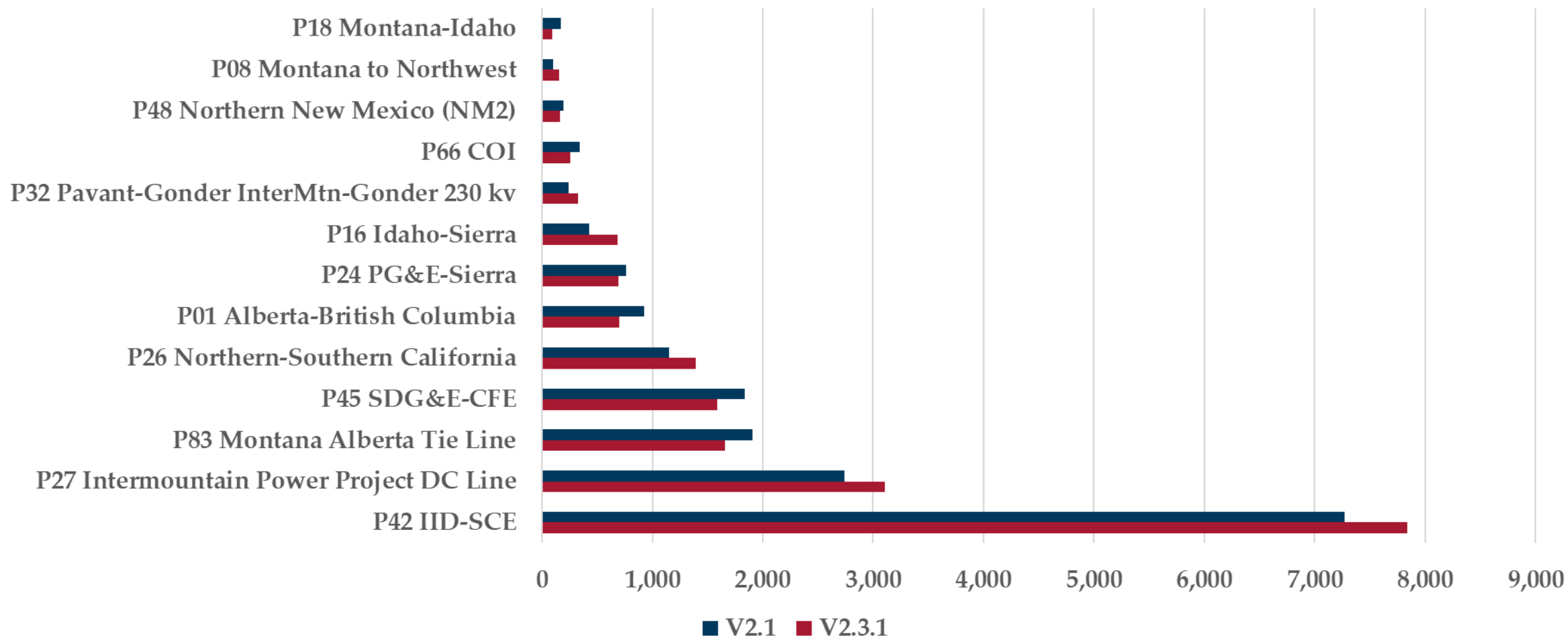
Area	Max LMP Load Weighted (\$/MWh)	Max LMP Simple Average (\$/MWh)	Count >\$100	Count >\$250
BANC	447	444	1	1
CFE	302	303	4	4
CISC	366	349	1	1
CISD	336	330	1	1
CIPB	449	446	1	1
CIPV	440	422	86	1
LDWP	357	337	44	1
TIDC	443	441	1	1
PSCO	302	301	17	3
AZPS	293	288	1	1
EPE	299	297	1	1
NEVP	289	286	1	1
PNM	293	288	1	1
SRP	294	290	1	1
TEPC	299	296	1	1
WALC	282	275	1	1

Transmission

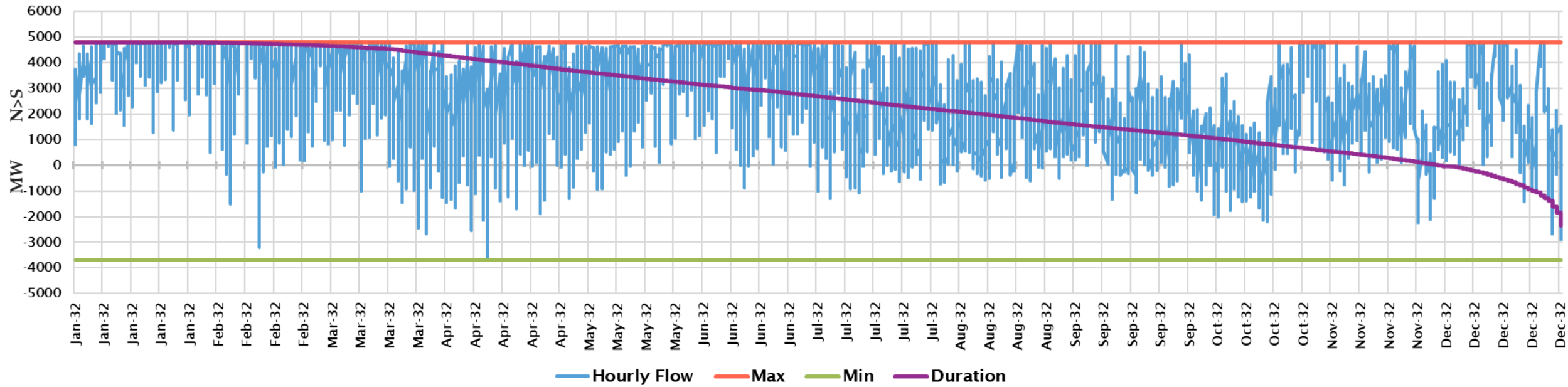
Path Congestion Hours

Paths	Total Hours		Positive Hours		Negative Hours	
	V2.1	V2.3.1	V2.1	V2.3.1	V2.1	V2.3.1
P42 IID-SCE	7,271	7,840	7,271	7,840	0	0
P27 Intermountain Power Project DC Line	2,737	3,108	2,274	2,427	463	681
P83 Montana Alberta Tie Line	1,907	1,656	1,907	1,656	0	0
P45 SDG&E-CFE	1836	1,585	360	319	1476	1,266
P26 Northern-Southern California	1154	1390	0	0	1154	1390
P01 Alberta-British Columbia	926	696	27	70	899	626
P24 PG&E-Sierra	765	692	0	0	765	692
P16 Idaho-Sierra	430	681	22	39	408	642
P32 Pavant-Gonder InterMtn-Gonder 230 kv	239	330	0	0	239	330
P66 COI	344	256	344	256	0	0
P48 Northern New Mexico (NM2)	191	165	0	0	191	165
P08 Montana to Northwest	100	155	0	0	100	155
P18 Montana-Idaho	170	89	3	2	167	87

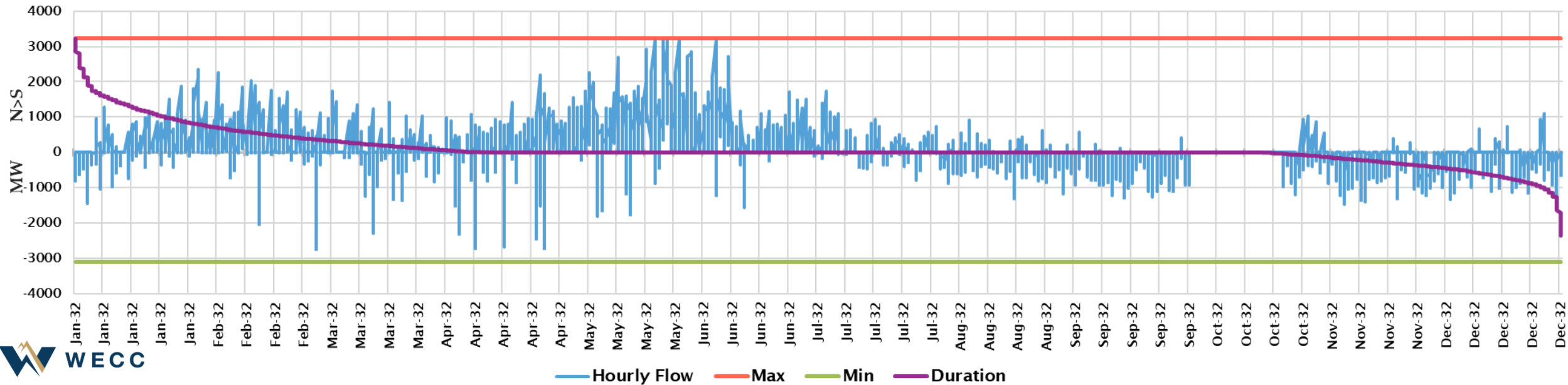
Total Congestion Hours



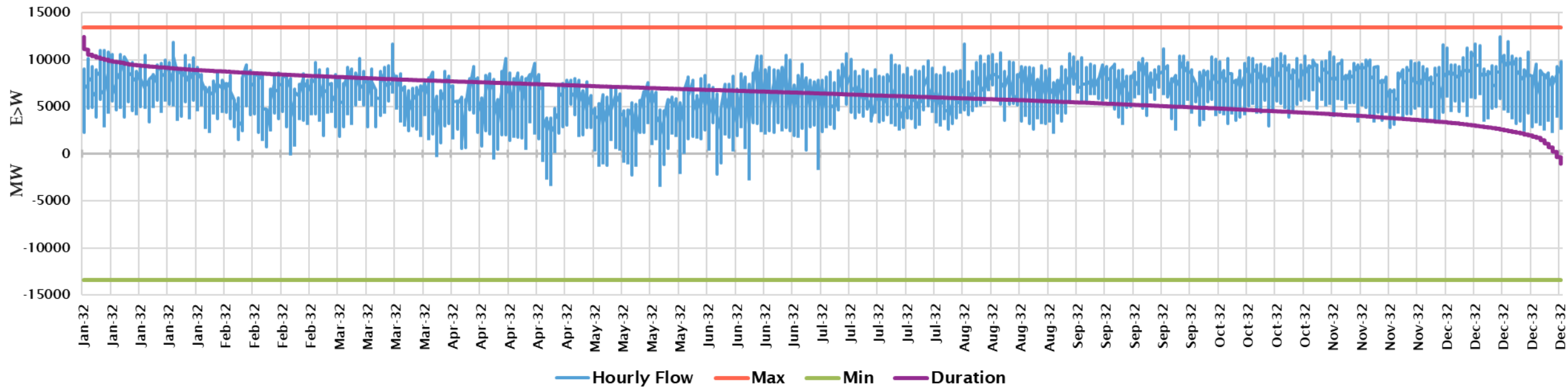
P66 COI - 2032 ADS v2.3.1 Chronological Hourly



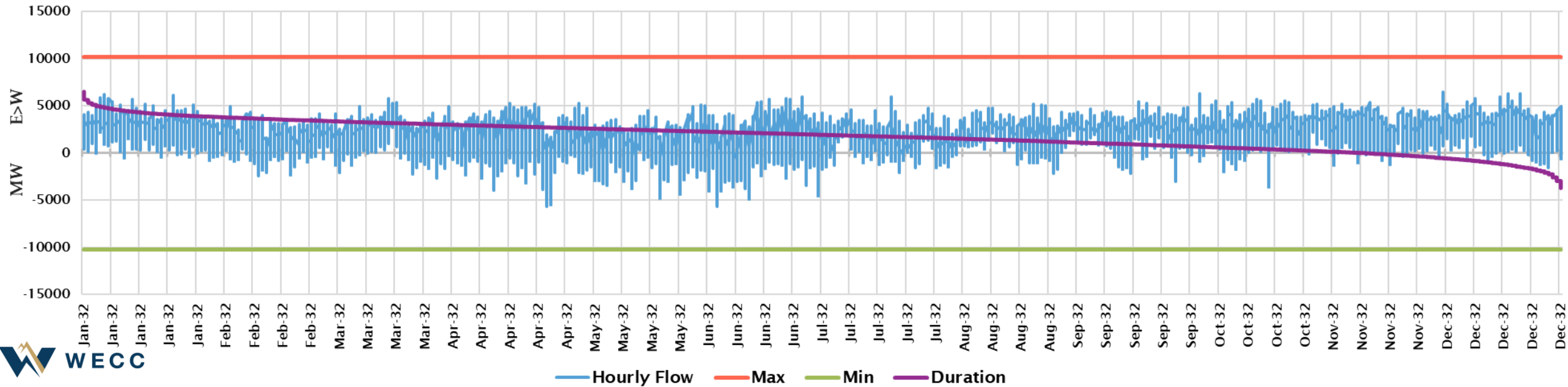
P65 Pacific DC Intertie (PDCI) - 2032 ADS v2.3.1 Chronological Hourly



P46 West of Colorado River (WOR) - 2032 ADS v2.3.1 Chronological Hourly

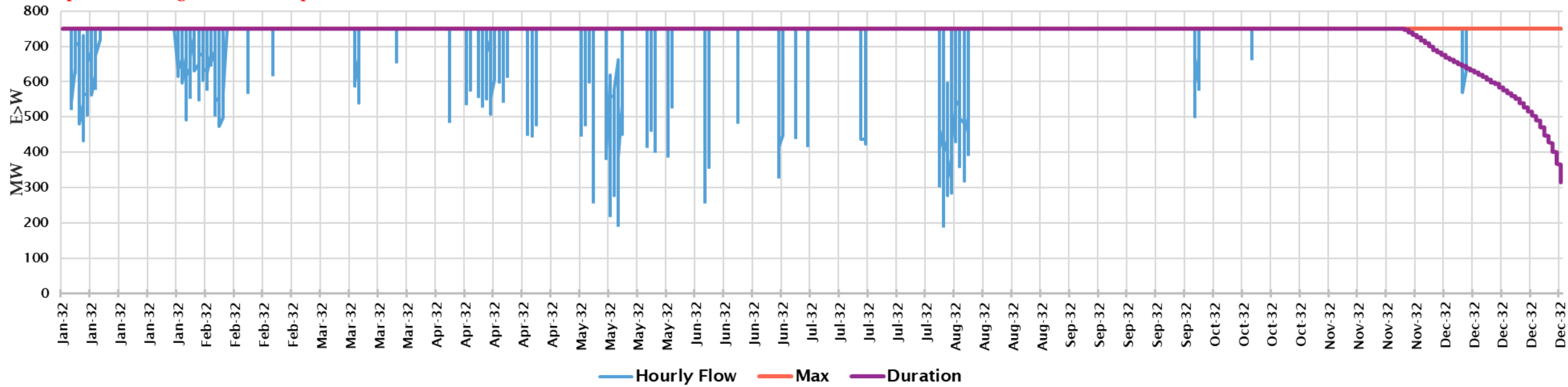


P49 East of Colorado River (EOR) - 2032 ADS v2.3.1 Chronological Hourly

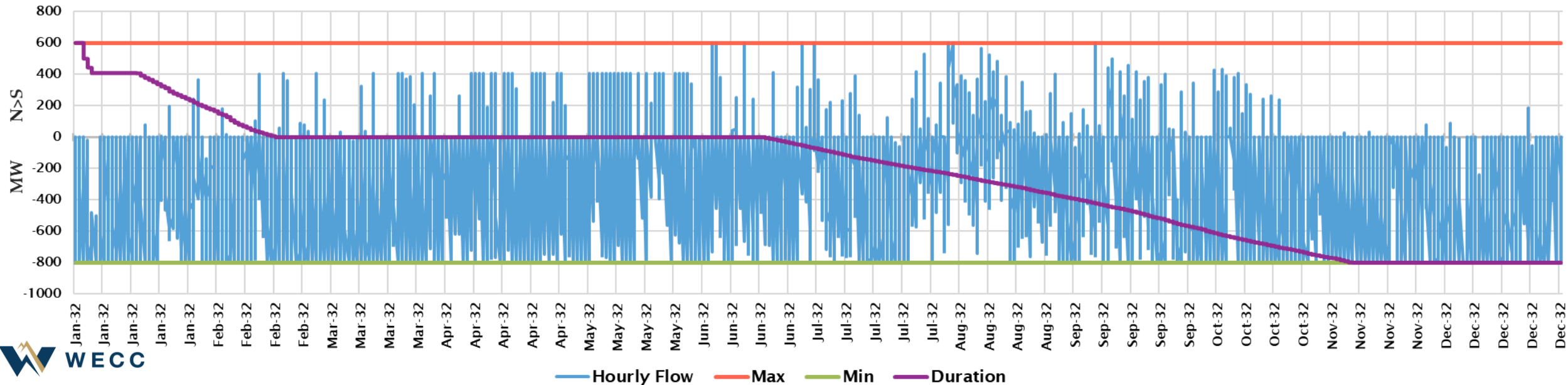


P42 has a new rating being studied of 1400 MW,
an optional change file will be provided.

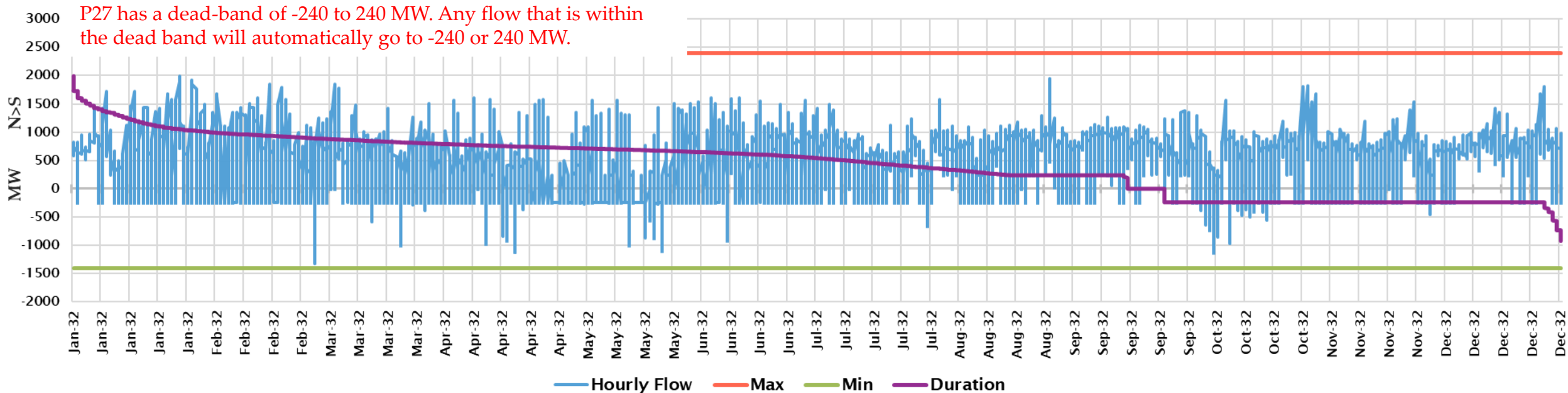
P42 IID-SCE - 2032 ADS v2.3.1 Chronological Hourly



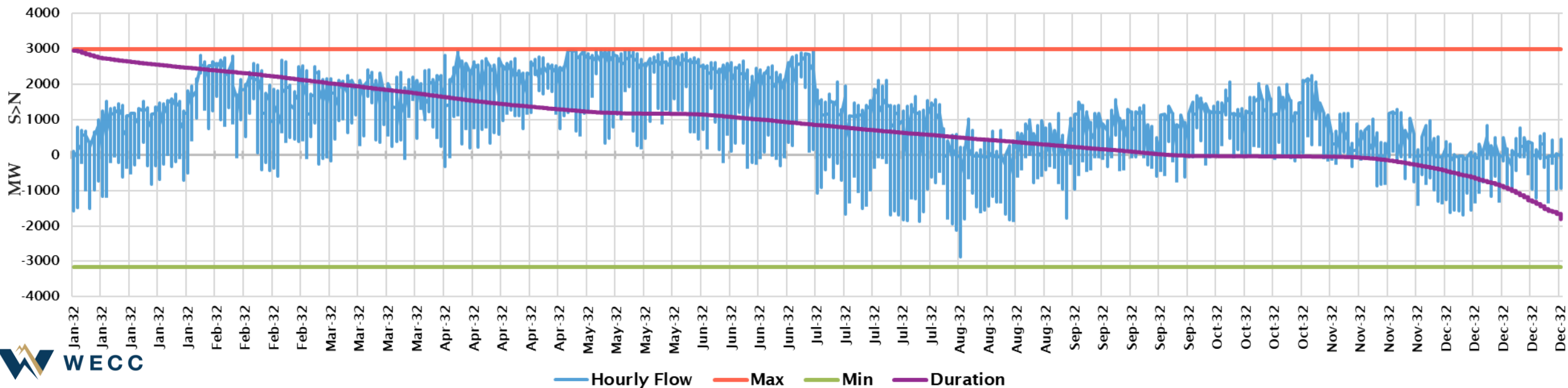
P45 SDG&E-CFE - 2032 ADS v2.3.1 Chronological Hourly



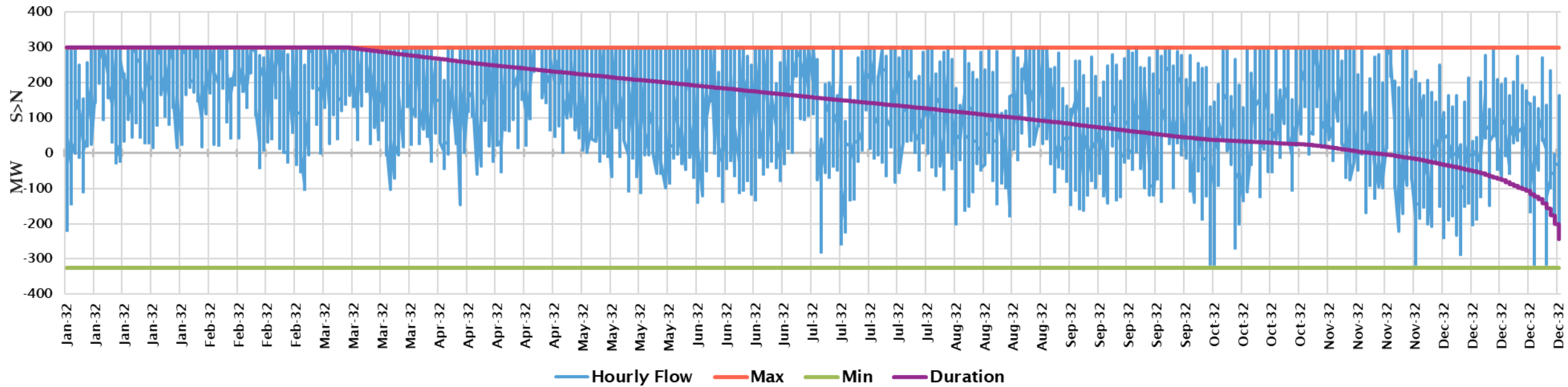
P27 Intermountain Power Project DC Line - 2032 ADS v2.3.1 Chronological Hourly



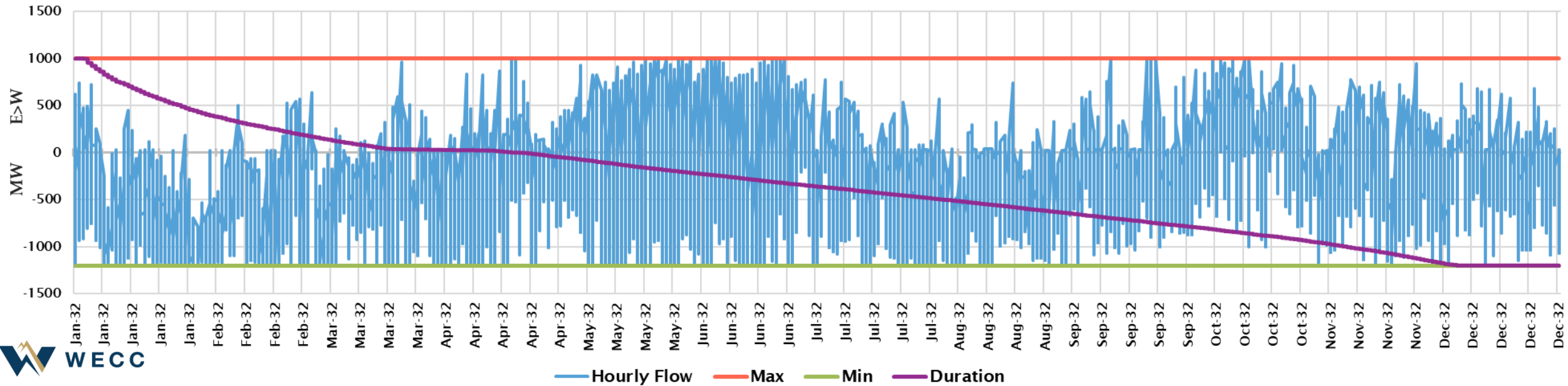
P03 Northwest-British Columbia - 2032 ADS v2.3.1 Chronological Hourly



P83 Montana Alberta Tie Line - 2032 ADS v2.3.1 Chronological Hourly



P01 Alberta-British Columbia - 2032 ADS v2.3.1 Chronological Hourly



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