

2032 ADS PCM

July 27, 2022

Tyler Butikofer Staff Engineer

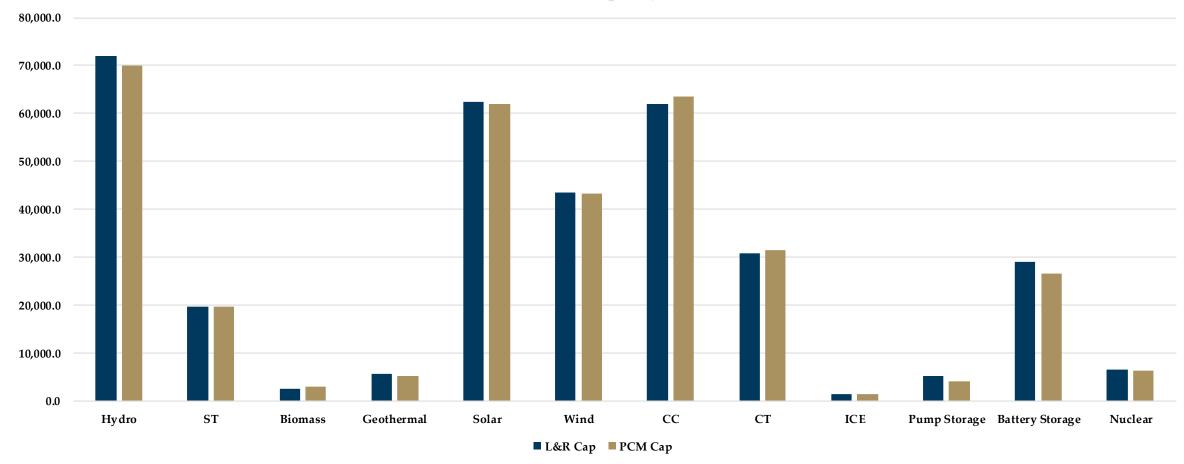
Capacity Comparison

- All commission and retirements dates updated to match L&R data
- All types of generation were looked at and a summary of major differences will be presented
- For wind and solar, the lower of the PF and L&R capacities were used



WECC wide capacity difference







Unserved Load PSCO, WACM, CFE



Total Unserved Load

- PSCO: 358 MWh
 - .0007% of served load
 - Hourly between 0.1% and 2.4% of the served load
- WACM: 634 MWh
 - .0023% of served load
 - Hourly between 0.2% and 5.7% of the served load
- CFE: 356 MWh
 - .0015% of served load
 - Hourly between 0.4% and 3.3% of the served load
- Not enough energy available to by transfer or within the BA for hours with unserved load but is very little total unserved load



Hourly Unserved Load

Date	Hour	PSCO	WACM	CFE	Total
7/14/2032	18	101.2	229.9	-	331.1
7/14/2032	19	225.8	229.9	-	455.7
7/15/2032	18	-	10.0	-	10.0
7/15/2032	19	7.9	8.1	-	16.0
7/29/2032	17	-	31.2	-	31.2
7/29/2032	18	23.2	125.1	-	148.3
8/17/2032	22	-	-	30.5	30.5
8/18/2032	13	-	-	19.8	19.8
8/18/2032	14	-	-	17.6	17.6
8/18/2032	15	-	-	78.9	78.9
8/18/2032	22	-	-	143.0	143.0
8/18/2032	23	-	-	66.3	66.3



LDWP Loads

LDWP Load Observations

Current Peak: 7,037 MW

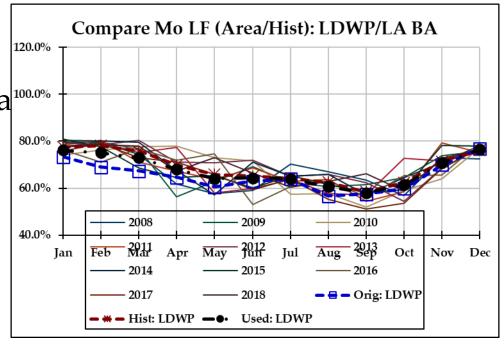
Current Energy: 30,638 GWh

For all months has peak contribution from Demand Side

Management of 500 MW

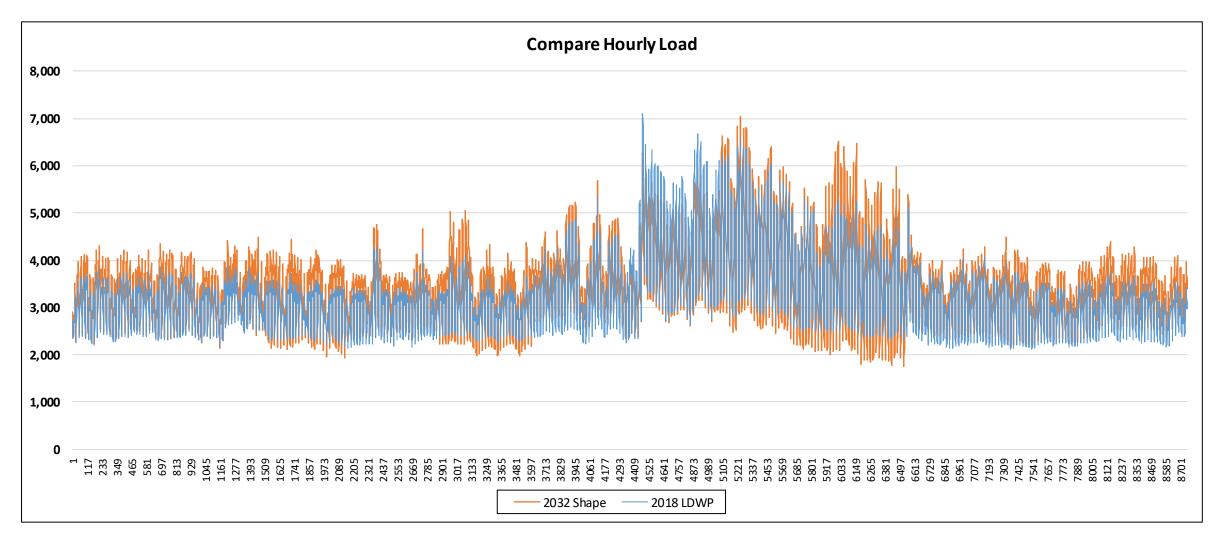
• This may not be reasonable; SCE only ha 100.0%

- Made adjustments to load factor
- Further adjustments may be warranted





LDWP hourly loads





Congestion of Paths



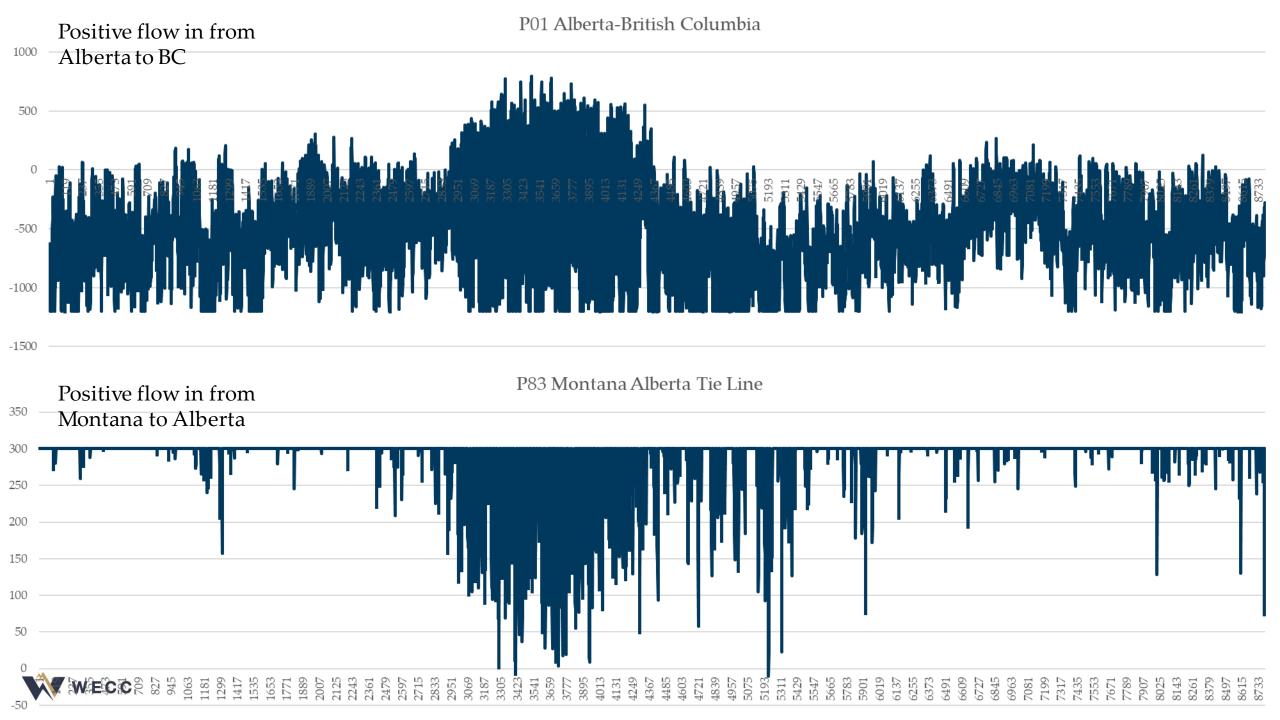
Total Congestion Hours (Paths)

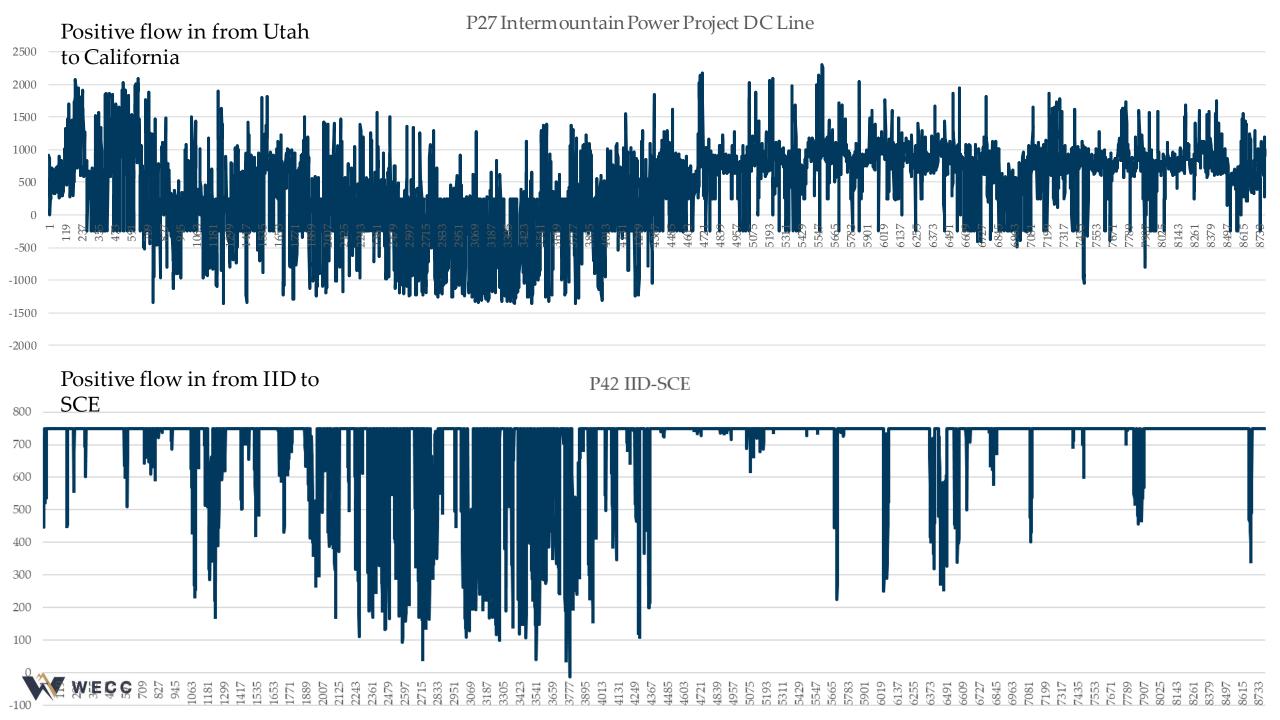
Total Congestion Hours (Hr)	Type	2032 ADS 2022-7-25
P83 Montana Alberta Tie Line	Interface	7719
P42 IID-SCE	Interface	7160
P27 Intermountain Power Project DC Line	Interface	2146
P66 COI	Interface	908
P26 Northern-Southern California	Interface	888
P45 SDG&E-CFE	Interface	820
P01 Alberta-British Columbia	Interface	698
P31 TOT 2A	Interface	557
P30 TOT 1A	Interface	523
P16 Idaho-Sierra	Interface	425
P24 PG&E-Sierra	Interface	418
P18 Montana-Idaho	Interface	365



AESO Imports causing Congestion

- High carbon price
 - AESO: 0.060817 \$/lb CO2
 - CISO: 0.028439 \$/lb CO2
- Flows are a result of AESO importing power for many hours
 - Less expensive for Albert to import than serve own load



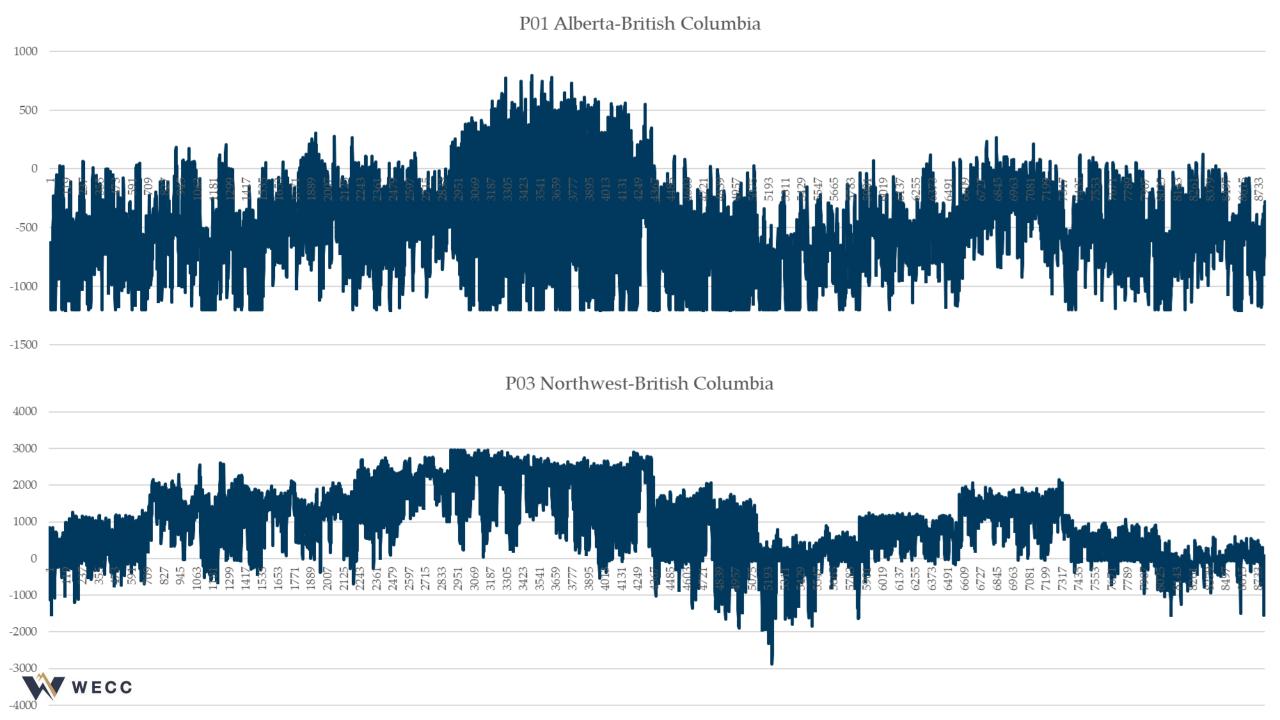


BC Hydro Data

What has been done

- Updated monthly energies Kevin provided (data received in 2016)
 - This is typical data, BC will not provide year specific data







Contact:

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