



PCDS Meeting

October 9, 2024

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WECC

Case Comparison

- 2034 ADS V2 (No Tier3)
- 2034 ADS V2_10-7 (No Tier3)

Change Cases Applied

2034_ADS_PCM_V2(2024LnR)_V2.0_Living
Case_10-7

- CleanGenlist_Order5.mdb
- States update_Order4.mdb
- Diff_ThermalGeneralFuel_Order1.mdb
- Fuels_Tech_Subtype_Cleanup_Order1.mdb
- T3_Turnoff_CAISO_DG_DR_T2_Order3.mdb
- GenRelocate_Greenlink_and_Other_Order2.mdb
- Diff_NCL_changecase2034to2032status.mdb

- SunZiaFixesMinor.mdb
- AS_Settings.mdb
- DG_DistributedByArea.mdb
- Diff_StationServiceSSturnedOff.mdb
- Storage_Next_to_WindSolar-HybridsUpdate_Order6.xlsx
- SunZiaTurnoff_NM_PV_Wind changecase
- Generator_LongID-Fixes LongID columns
- 2034_DemandResponse_wDistTable.mdb
- Other minor clean ups

To Do

- Update the hourly resource shapes for new units
- Update Reserves
- Energy Storage/Pump Storage aggregations (WECC GIS Specialist)-Runtime
- Update titles of interfaces to include direction. EX. (W-E)
- Apply—Combined Cycle Pmax fix and a/b representation
- Apply—fix for Combined Cycle units, gas units modeled separately from steam, fix to a/b configuration
- Correct fuels assignments and Pmin Pmax, CO2 groups
- Path 14, 15, 26, 66 corrections

Keep in mind

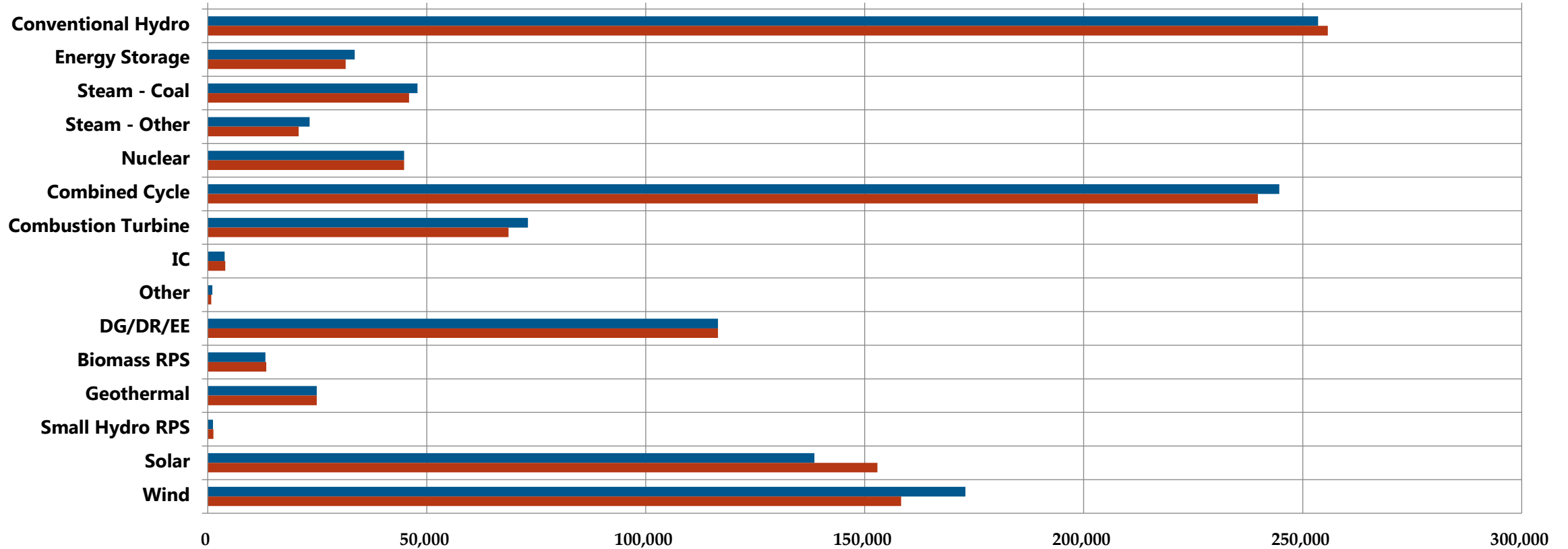
- Both cases were simulated with
 - Tier 3 resources turned off
 - MIO not enabled
 - Look Ahead not enabled

Annual Energy

Annual Generation by Category (GWh)

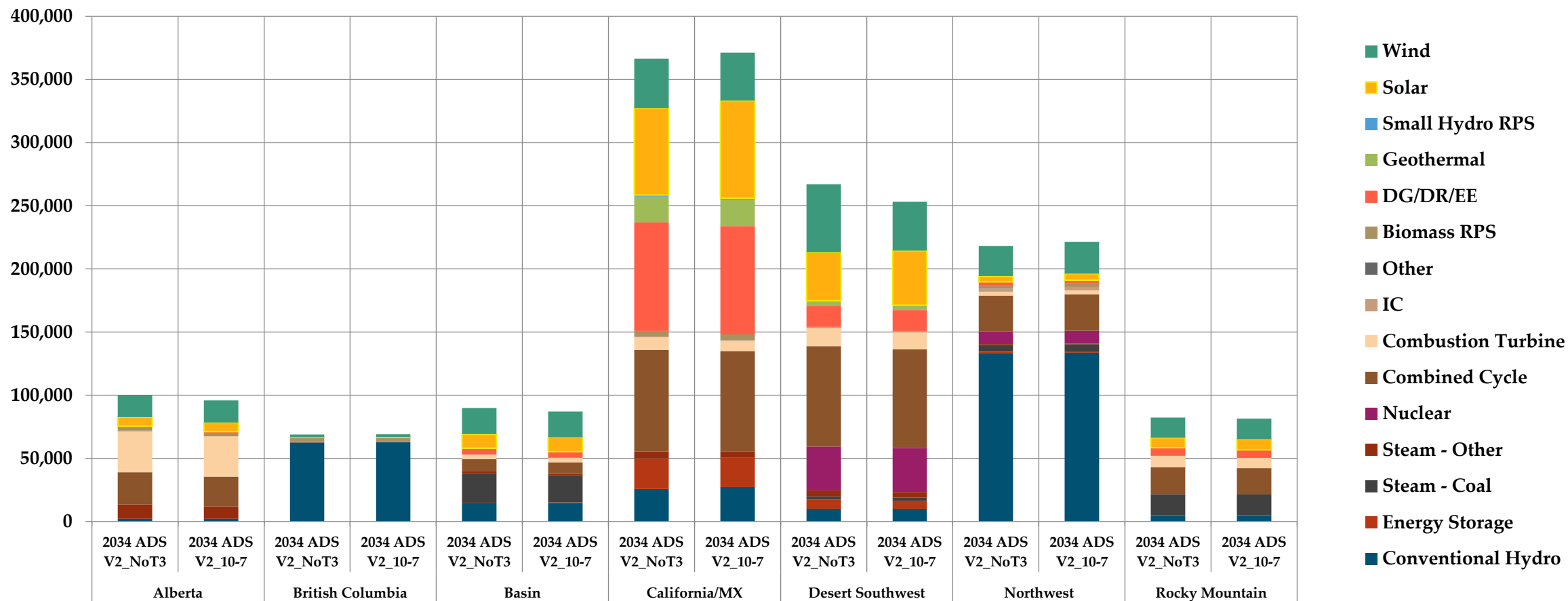
■ 2034 ADS V2_NoT3 ■ 2034 ADS V2_10-7

Total Increase = -13,540 GWh



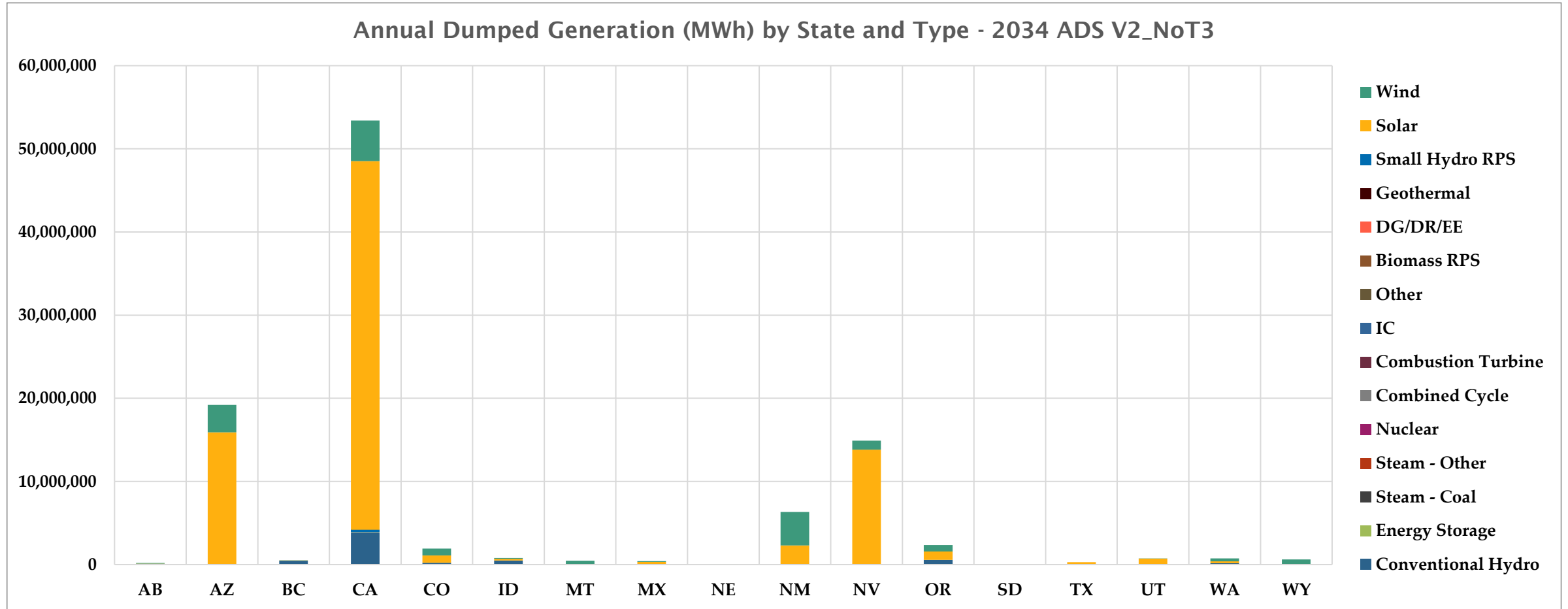
Annual Energy

Energy By Subregion (GWh)



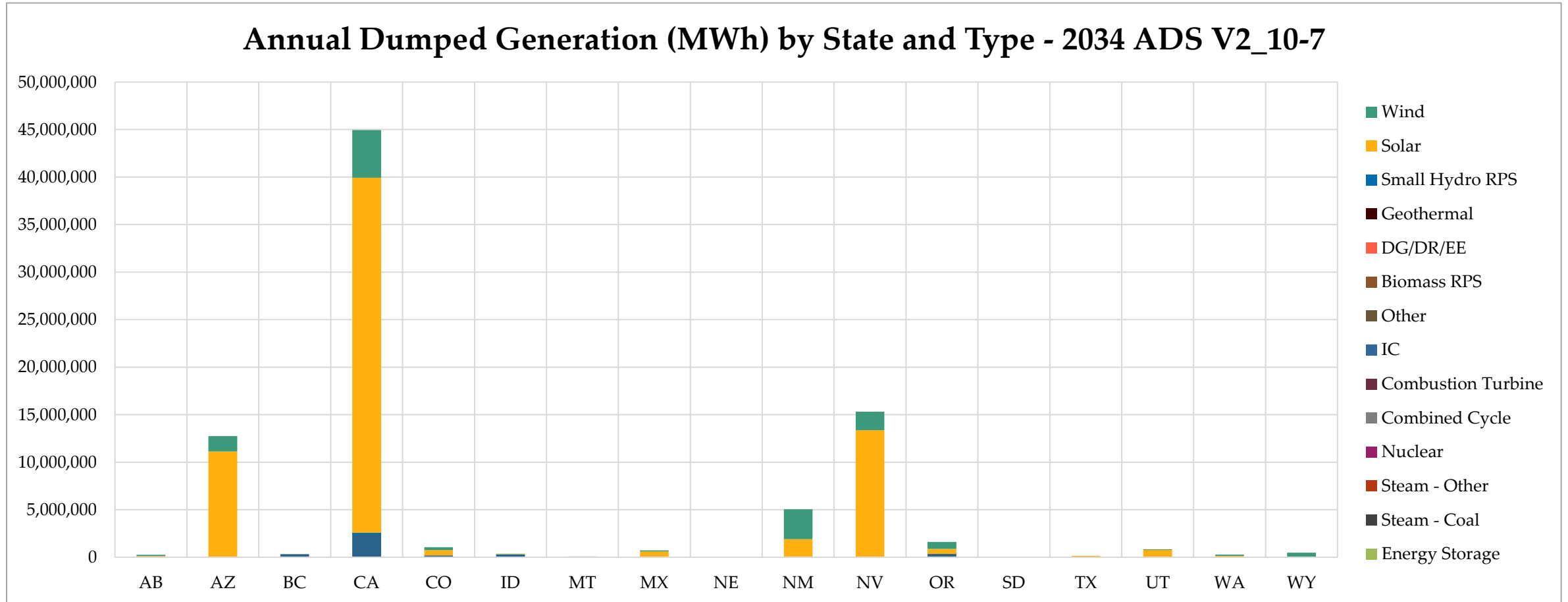
2034 ADS V2 No Tier3

Total: 102,947,070 MWh



2034 ADS V2_10-7 (No Tier3)

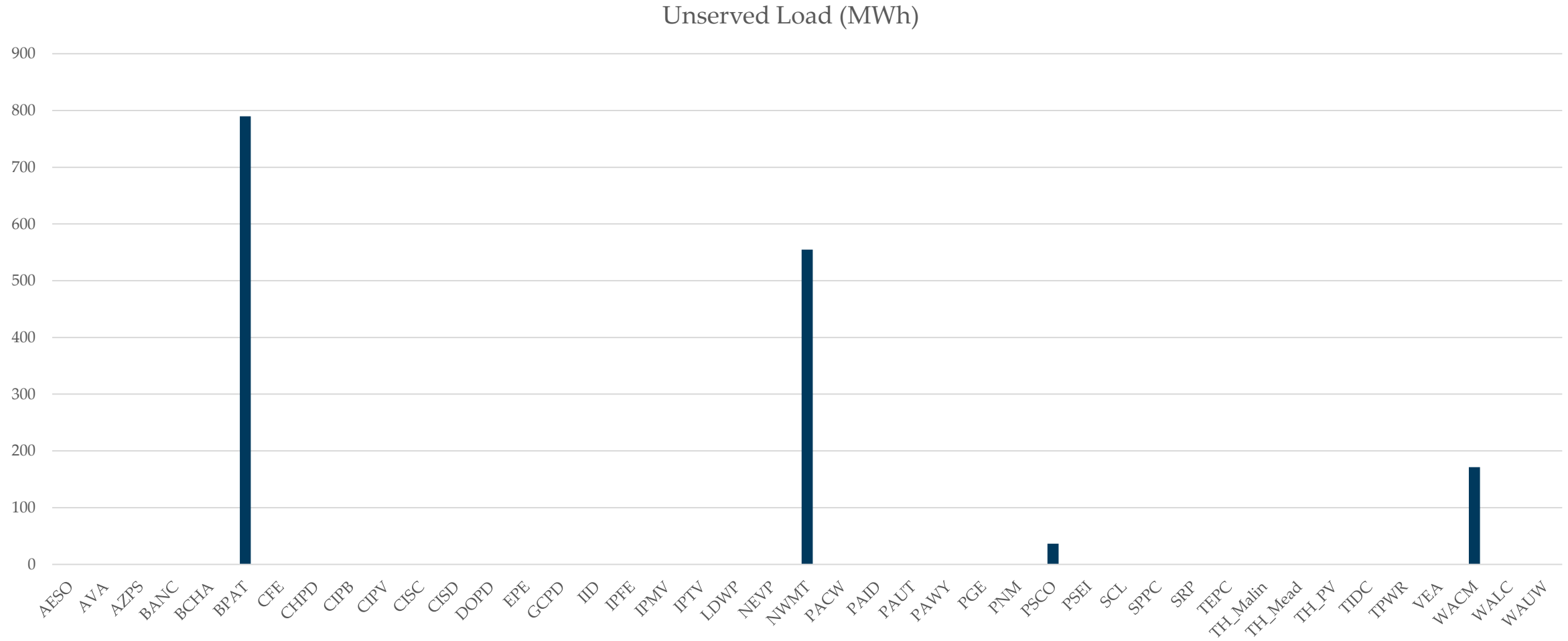
Total: 84,217,529 MWh



2034 ADS V2 No Tier3

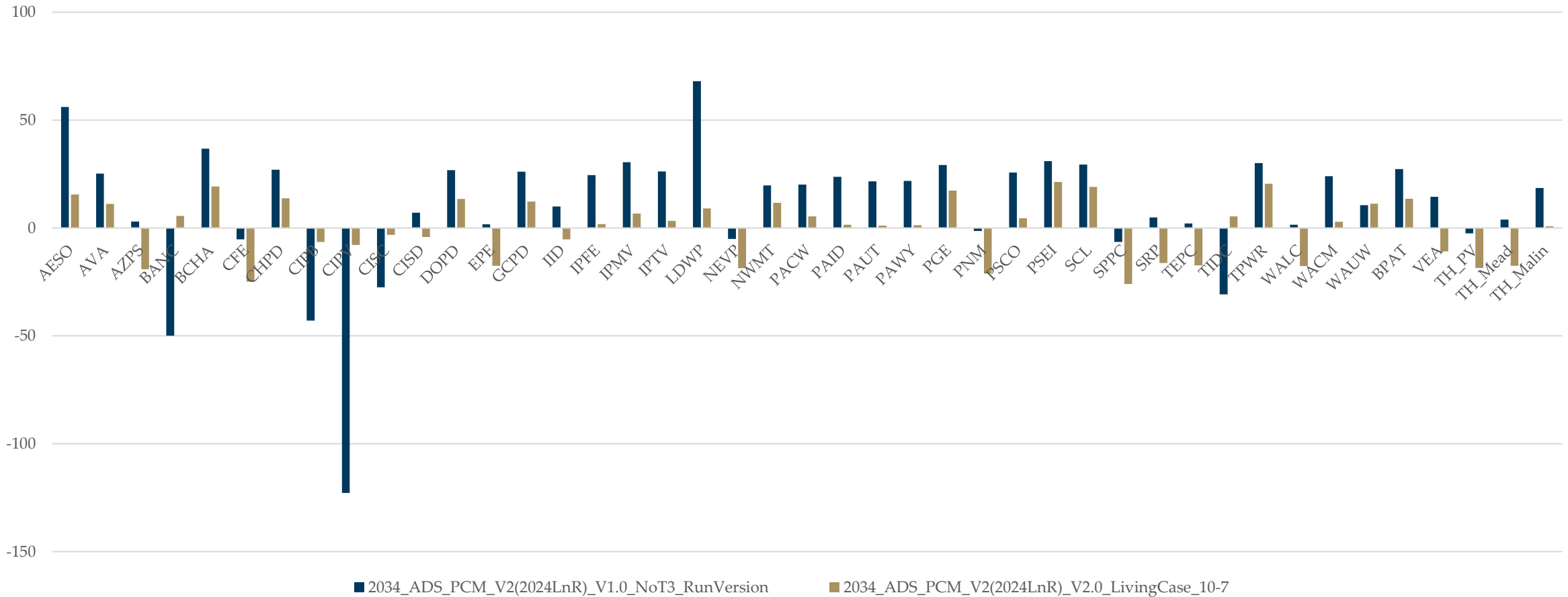
- No unserved load

2034 ADS V2_10-7 (No Tier3)



Average LMP Congestion (\$/MWh)

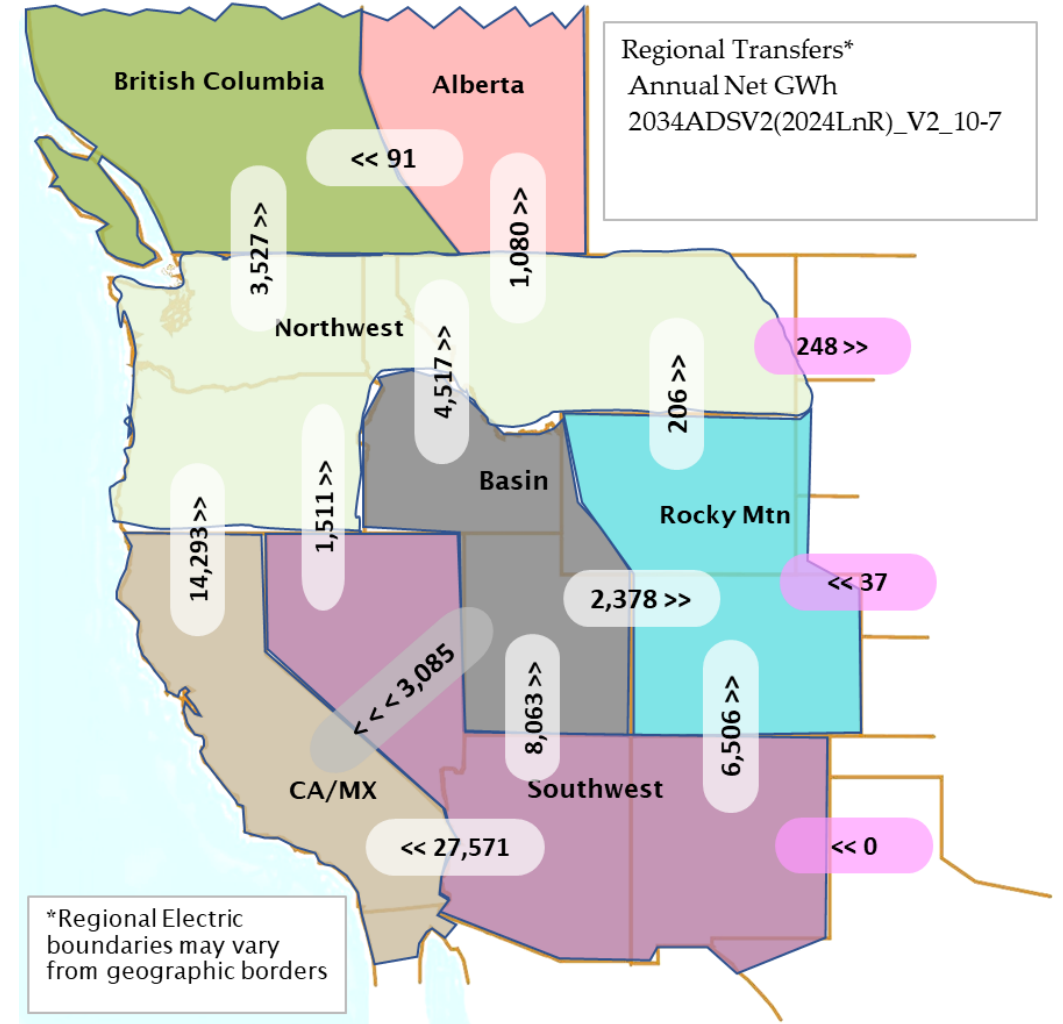
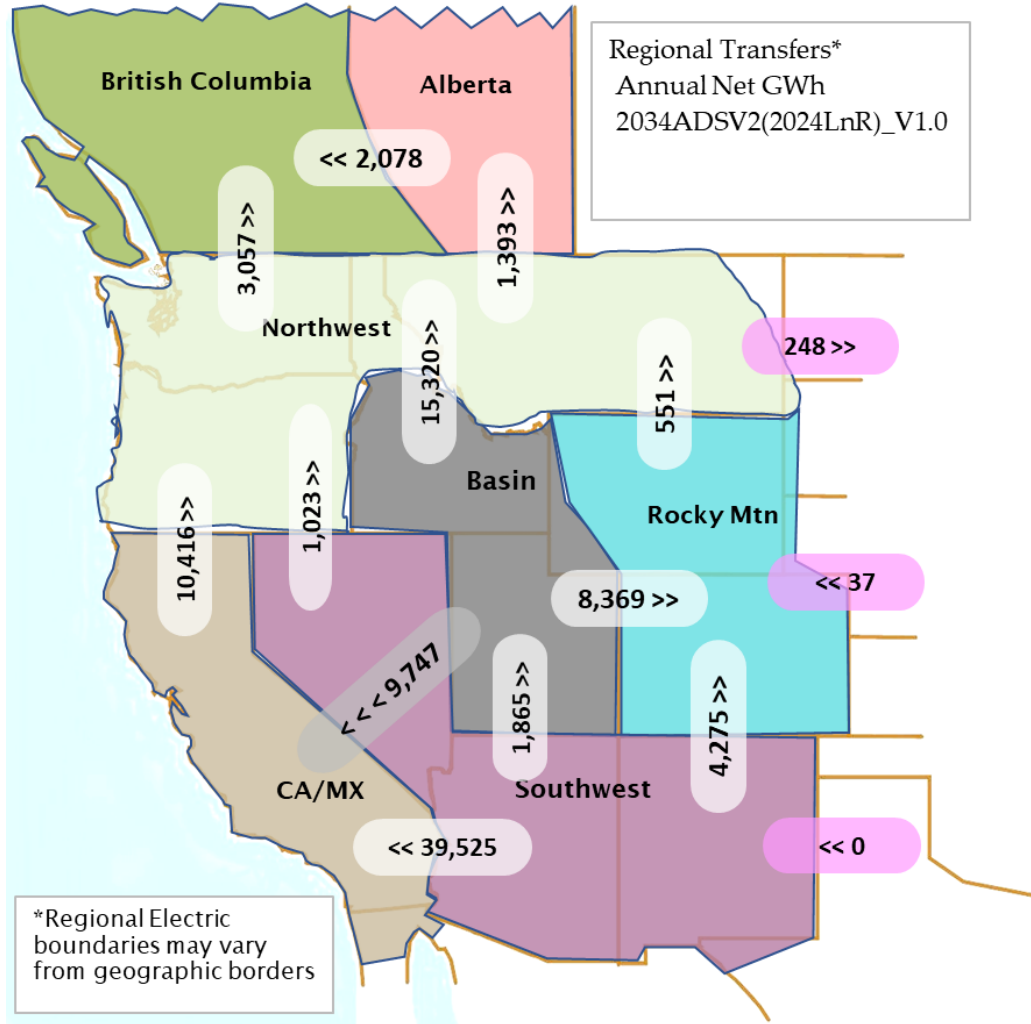
Average LMP Congestion (\$/MWh)



Transmission Congestion hours

- 2034 ADS V2 No Tier3
 - 190,754 hours
- 2034 ADS V2_10-7 (No Tier3)
 - 72,666 hours

Net Regional Transfers





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