



PCDS Meeting

November 06, 2024

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WECC

Case Comparison

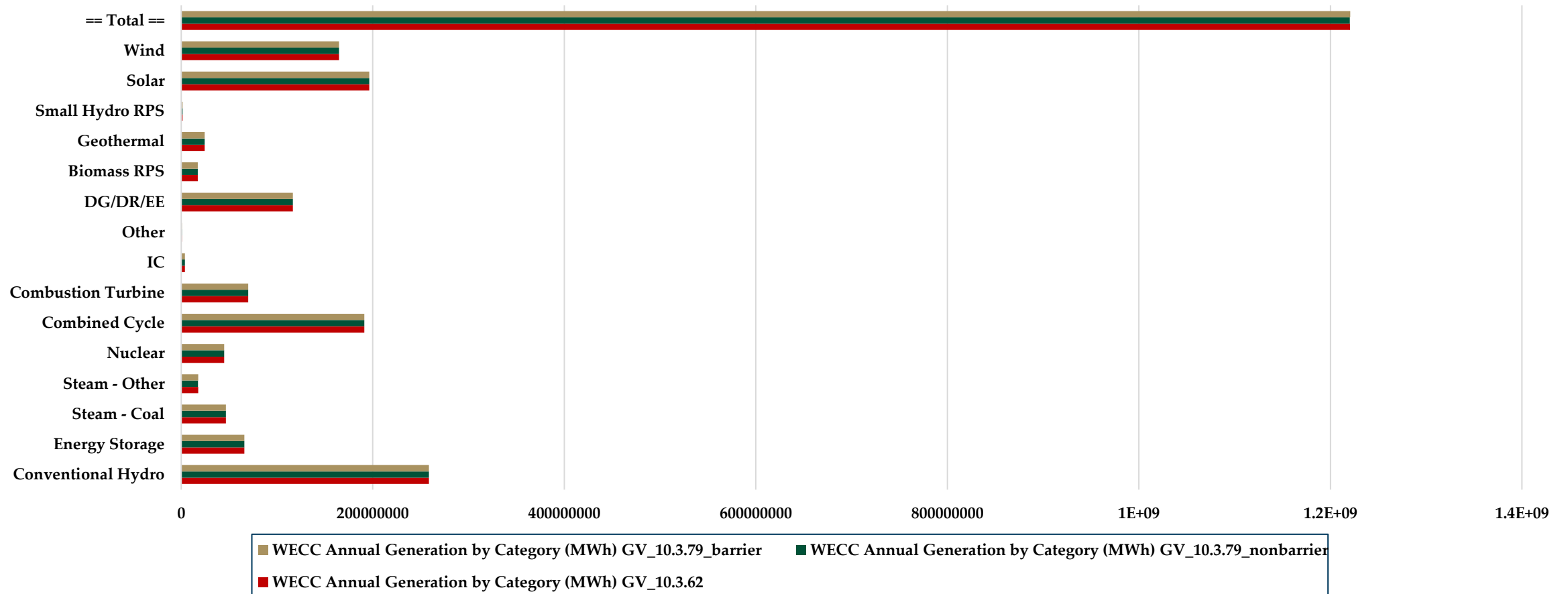
- GV_10.3.62
- GV_ 10.3.79_nobarrier
- GV_ 10.3.79_barrier

Keep in mind

- All three cases were simulated with
 - Tier 3 resources turned off
 - MIO enabled
 - Look Ahead enabled
 - Distributed Run used (6 sections)

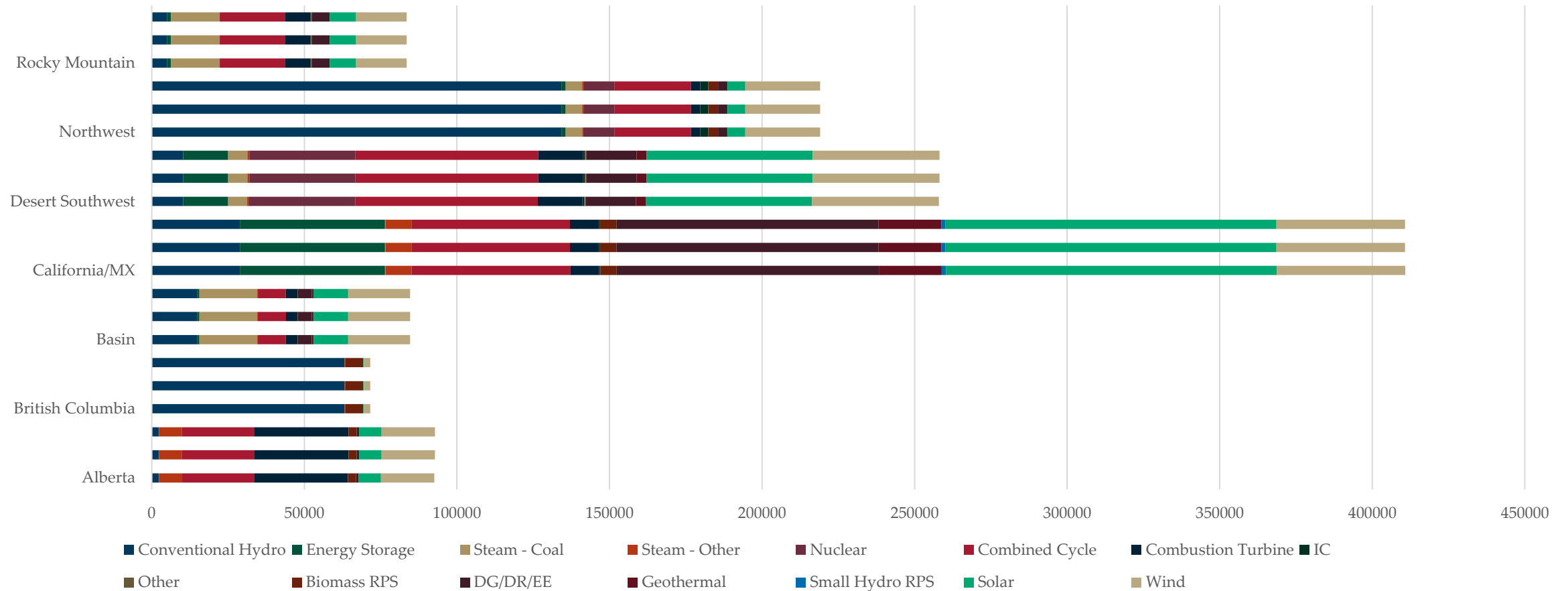
Annual Energy

Annual Generation by Category (MWh)



Annual Energy

Energy by Subregion (GWh)

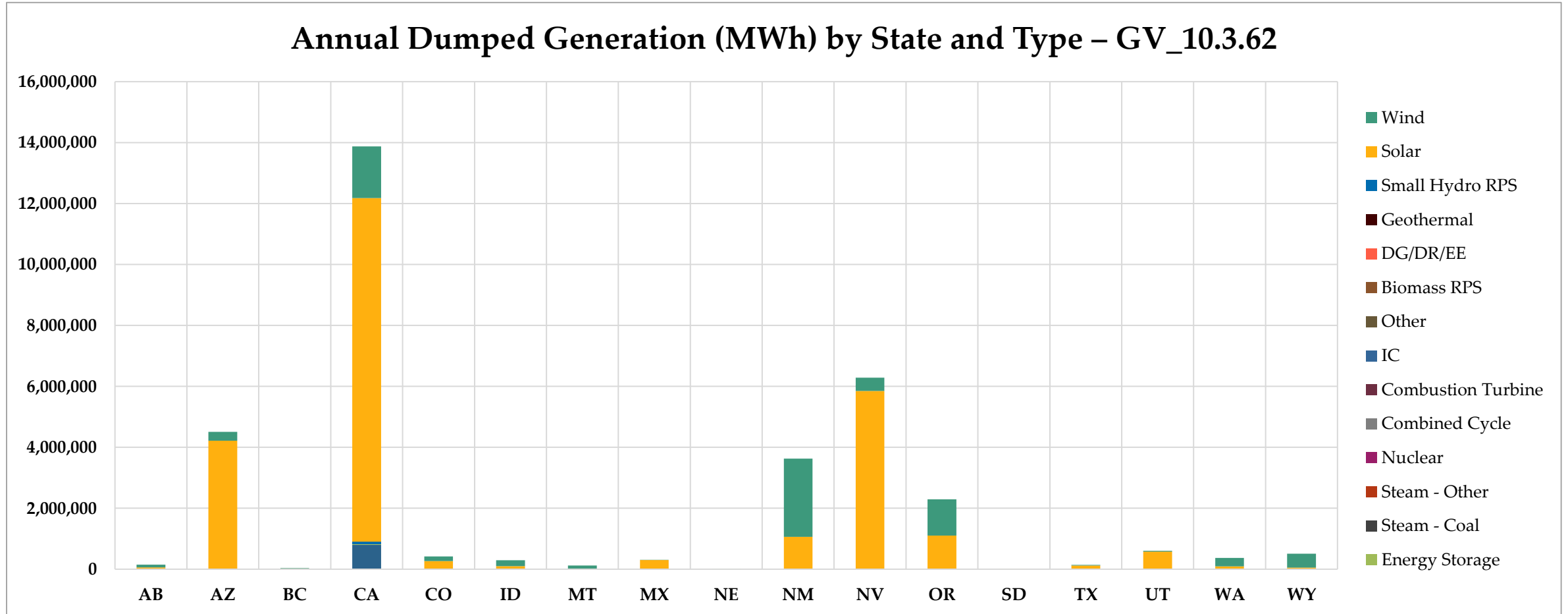


Energy by Subregion

The energy by subregion were identical for GV_10.3.62 and GV_10.3.79_barrier cases, except for Conventional Hydro resources in the Basin subregion, where a difference of ~12,400 MWh was observed.

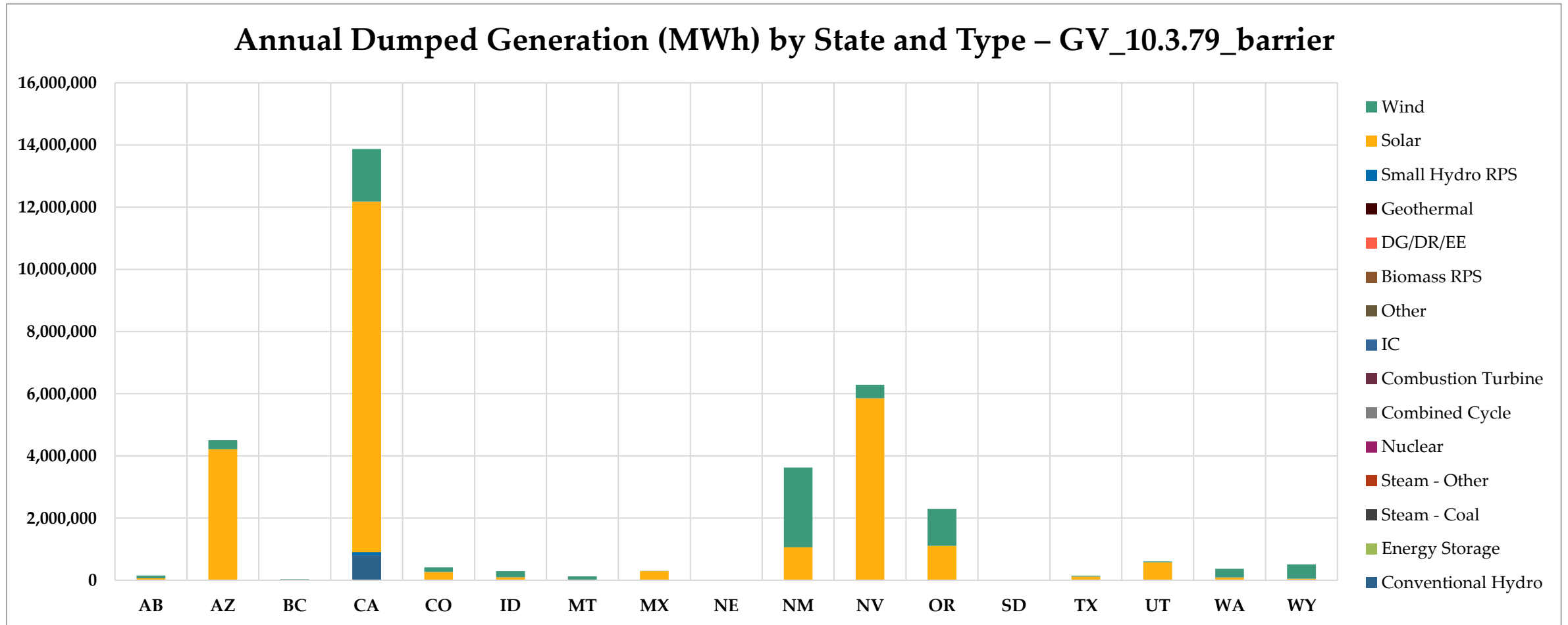
GV_10.3.62

Total: 33,547,376 MWh



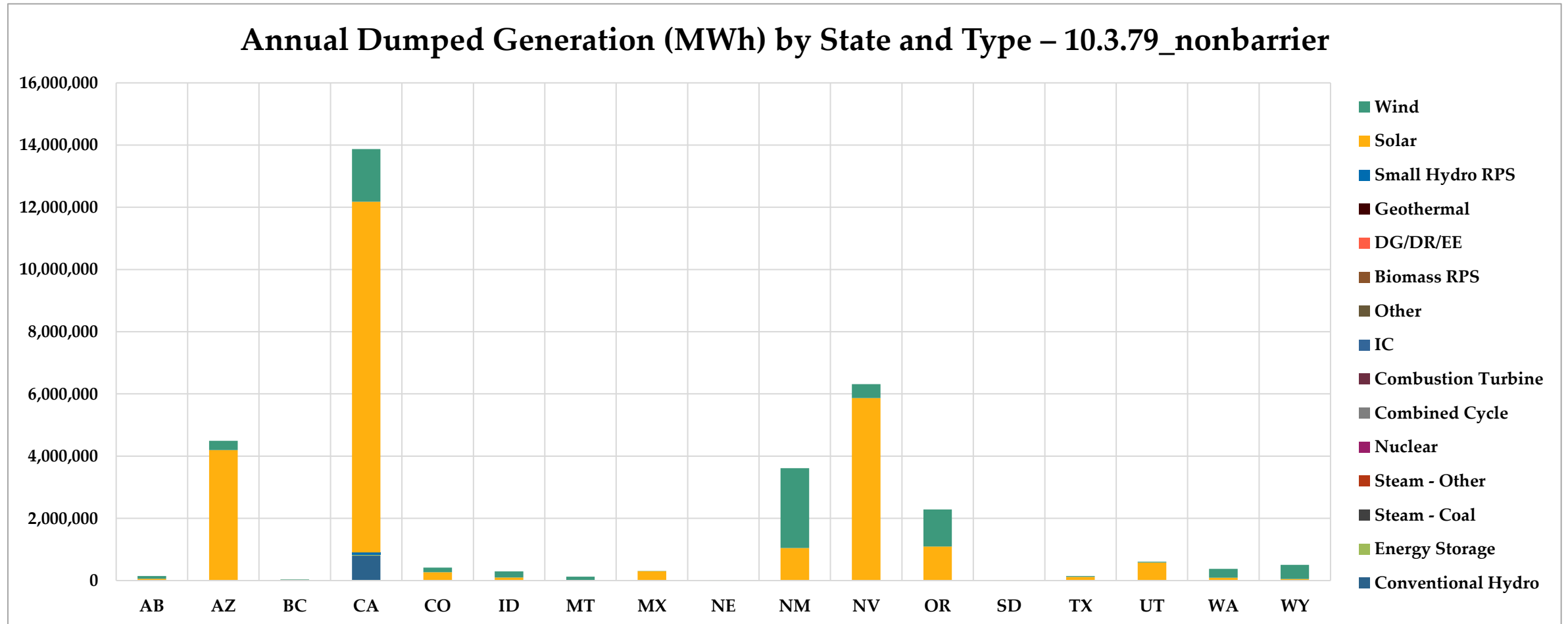
GV_10.3.79_barrier

Total: 33,547,376 MWh

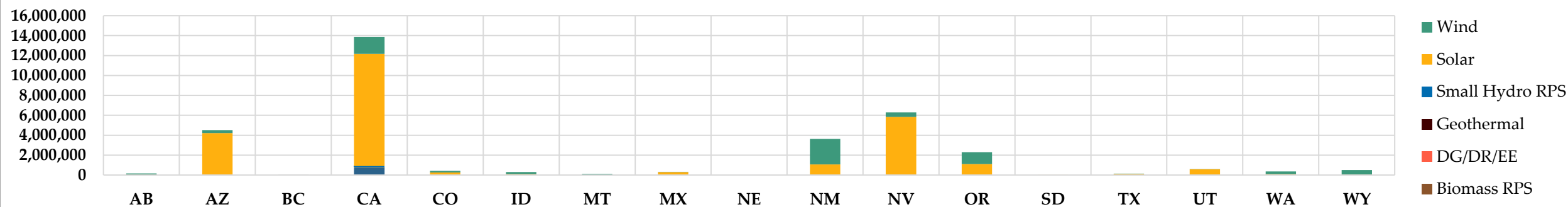


GV_10.3.79_nonbarrier

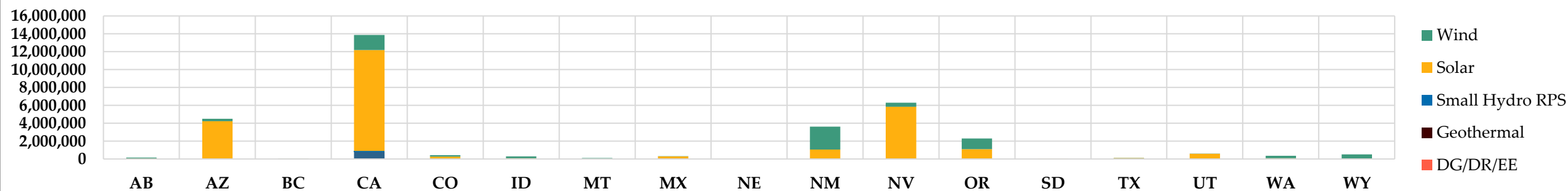
Total: 33,529,809 MWh



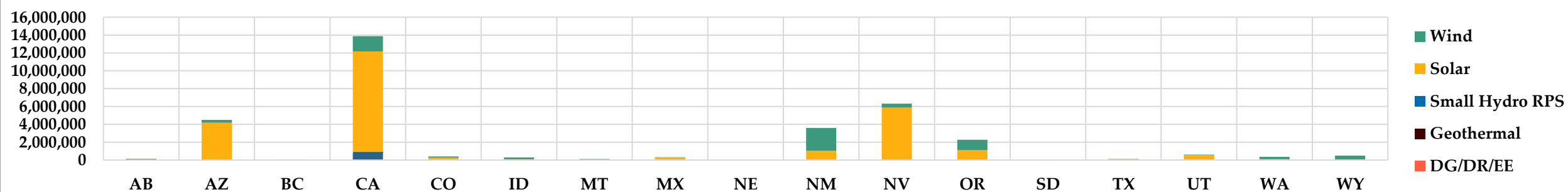
Annual Dumped Generation (MWh) by State and Type – GV_10.3.62



Annual Dumped Generation (MWh) by State and Type – GV_10.3.79_barrier



Annual Dumped Generation (MWh) by State and Type – GV_10.3.79_nonbarrier

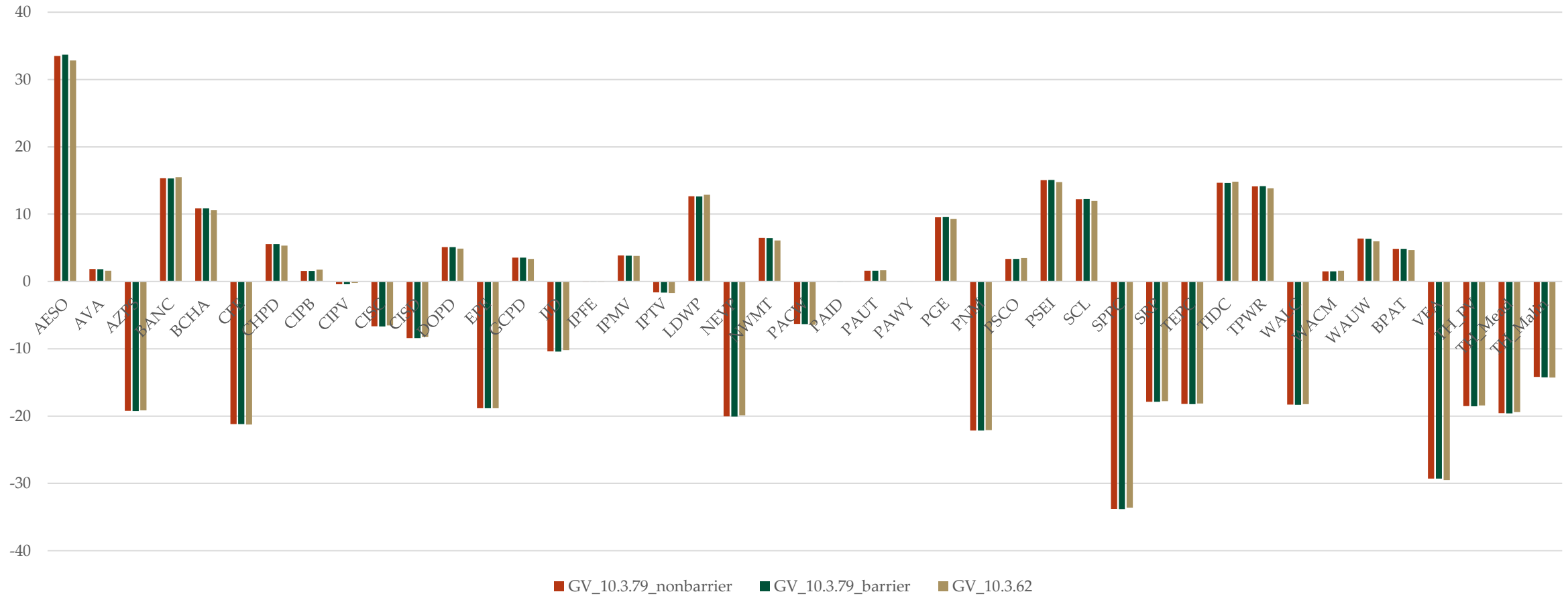


Unserved Load

No unserved load observed in any of these cases.

Average LMP Congestion (\$/MWh)

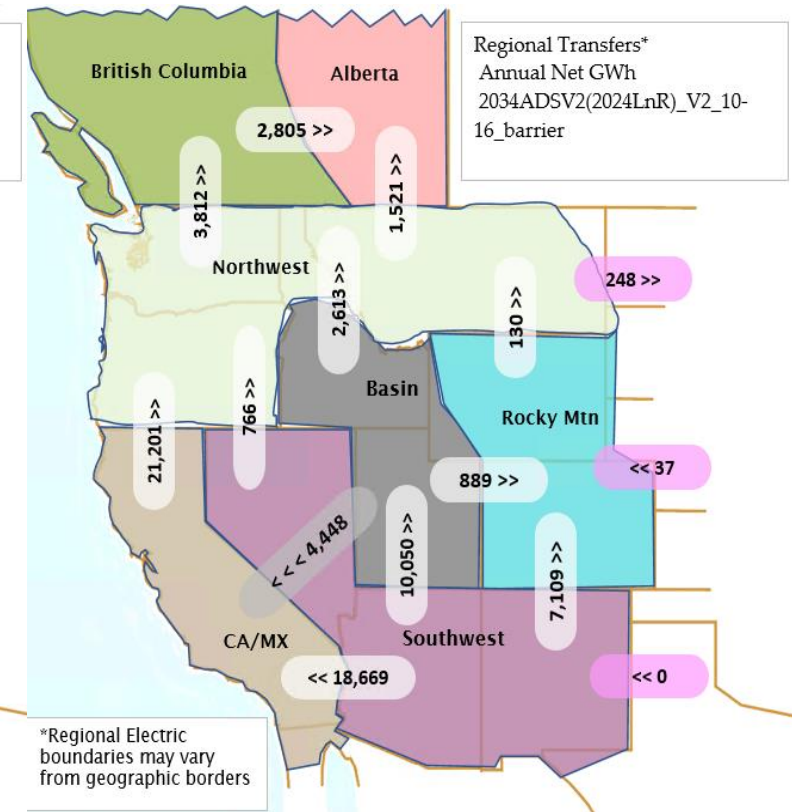
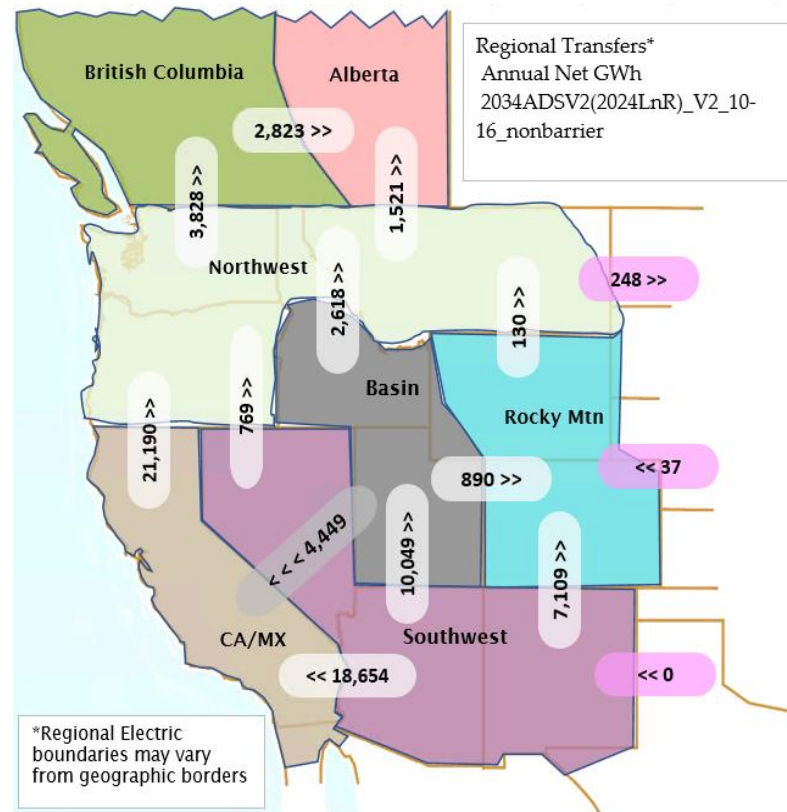
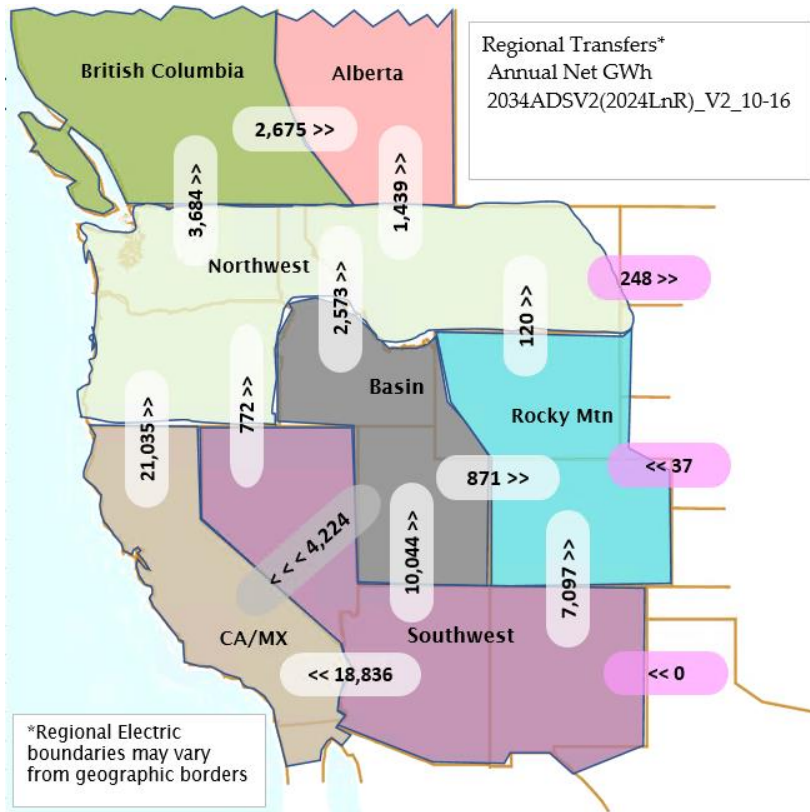
Average LMP Congestion (\$/MWh)



Transmission Congestion hours

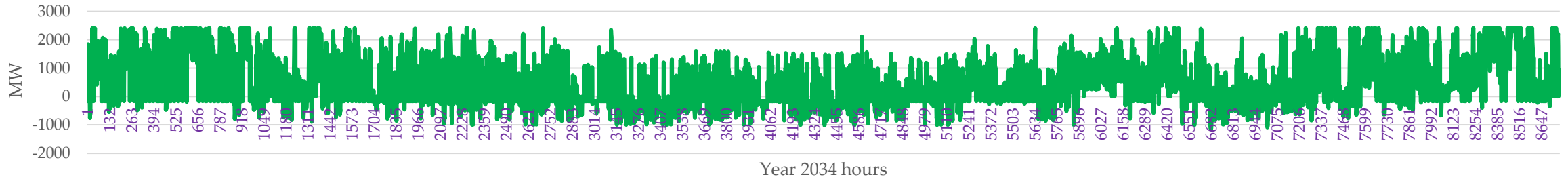
- GV_10.3.62
 - 90,338 hours
- GV_10.3.79_barrier
 - 91,411 hours
- GV_10.3.79_nonbarrier
 - 90,702 hours

Net Regional Transfers

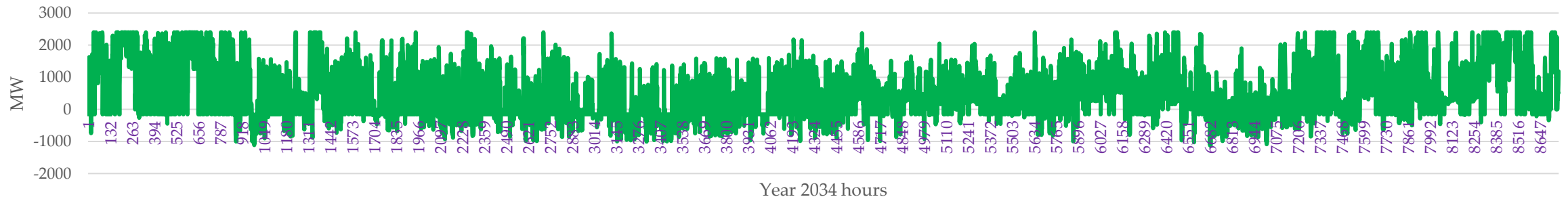


P27 Intermountain Power Project DC Line NE-SW

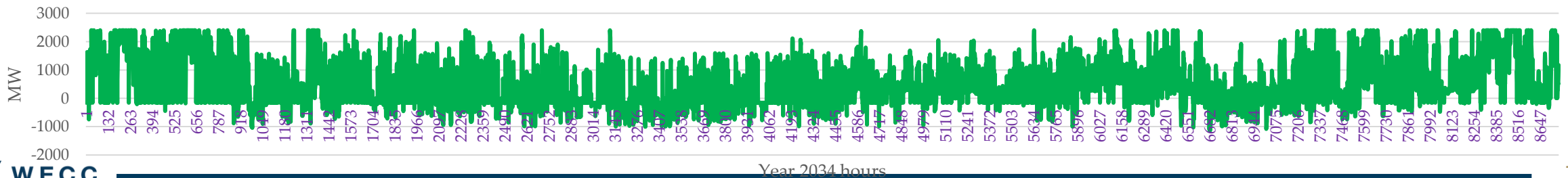
GV_10.3.62



GV_10.3.79_nonbarrier

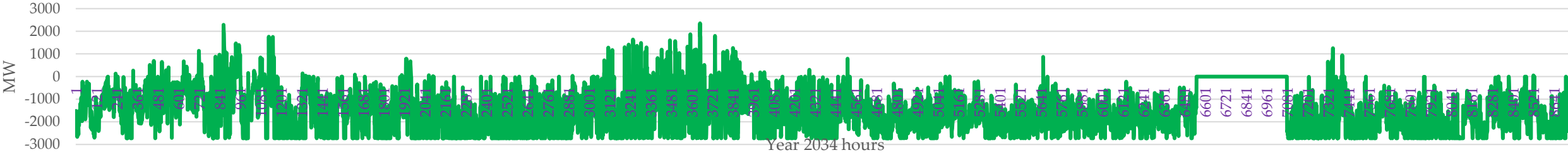


GV_10.3.79_barrier

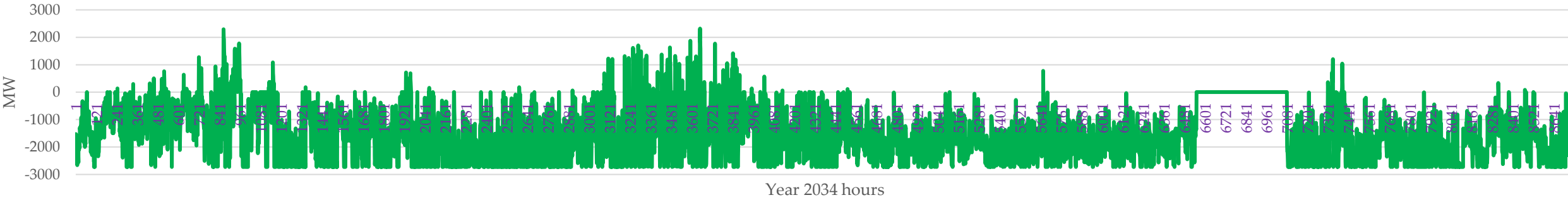


P65 Pacific DC Intertie N-S

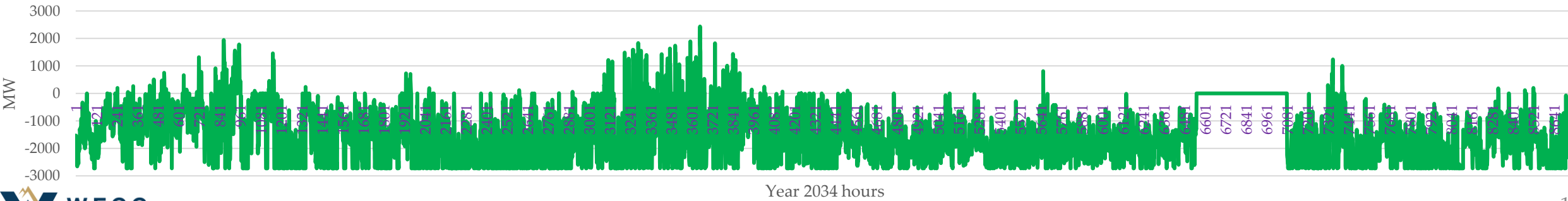
GV_10.3.62



GV_10.3.79_nonbarrier



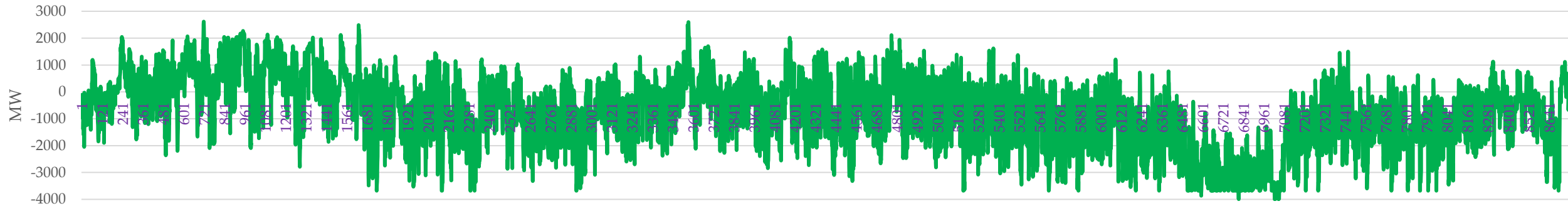
GV_10.3.79_barrier



P66 California Oregon Intertie

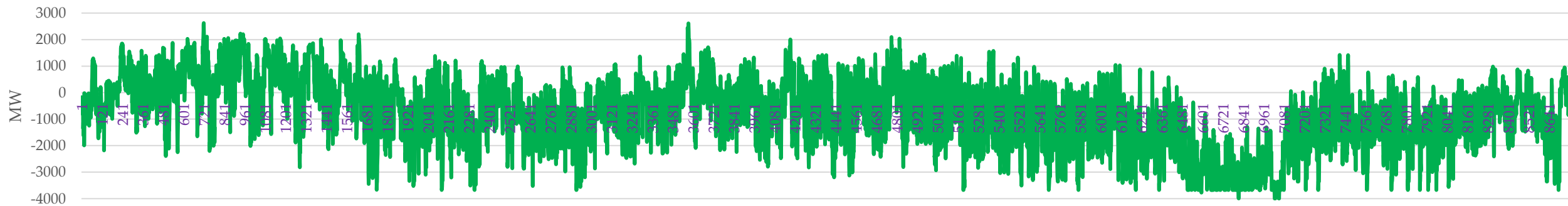
<Public>

GV_10.3.62



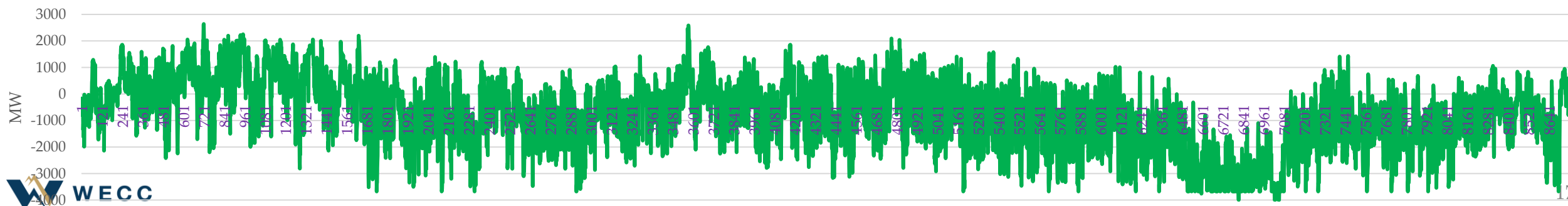
Year 2034 hours

GV_10.3.79_nonbarrier



Year 2034 hours

GV_10.3.79_barrier



Year 2034 hours

Run Time (Section with the longest runtime)

- GV_10.3.62
~20 hours
- GV_10.3.79_nonbarrier
~42 hours
- GV_10.3.79_barrier
~19 hours

