

PCDS Meeting

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PCDS Items



2036 ADS V2.0 Definitions

- 2LnR – L&R Based, Only LnR units enabled
 - “2036 ADS PCM V2.0 LnR (2LnR)”
- 2PF – Only PF enabled
 - “2036 ADS PCM V2.0 PF Only (2PF)”
- 2PF-LnR – PF units enabled with some L&R units turned on to relieve USE
 - “2036 ADS PCM V2.0 PF Only with L&R for USE (2PF-LnR)”

Proposed Dev Status

| Applied Cases | | | |
|---------------|----------|-------------------------------------|---|
| Case PF | Case LnR | DevDefinition | Definition |
| Yes | Yes | Existing | Mapped Existing units that are matched in PF and LnR |
| Yes | Yes | T1 - Under Construction | Mapped T1 units that are matched in PF and LnR |
| Yes | Yes | T2 - Future-Planned | Mapped T2 units that are matched in PF and LnR |
| Yes | Yes | T3 - Future Conceptual | Mapped T3 units that are matched in PF and LnR |
| Yes | Yes | Retired | Mapped Retired units that are matched in PF and LnR |
| Yes | No | Power Flow Unit - Not in LnR | In power flow, but not matched in LnR |
| Yes | No | Power Flow Active - LnR Retired | Active in Power Flow, but is retired in LnR |
| Yes | No | Power Flow Active - Canceled in LnR | Active in Power Flow, but is canceled in LnR |
| Yes | Yes | Added EIA Projects | Added EIA Units, not in LnR or PF |
| Yes | Yes | Other Added Projects | Ex. Other added projects |
| No | Yes | 26LnR Existing | LnR Existing only, not matched to the PF |
| No | Yes | 26LnR T1 | LnR T1 only, not matched to the PF |
| No | Yes | 26LnR T2 | LnR T2 only, not matched to the PF |
| No | Yes | 26LnR T3 | LnR T3 only, not matched to the PF |
| No | Yes | 26LnR Placeholder | Dummy gen list data for new LnR |
| Yes | Yes | CL - Canceled in LnR | CL units in LnR |
| Yes | Yes | Agg - Disabled | Sub-components of an aggregated unit set. May or may not be matched in PF and LnR |
| Deleted | Deleted | NA - Not Applicable | Not Applicable to case, to be deleted |



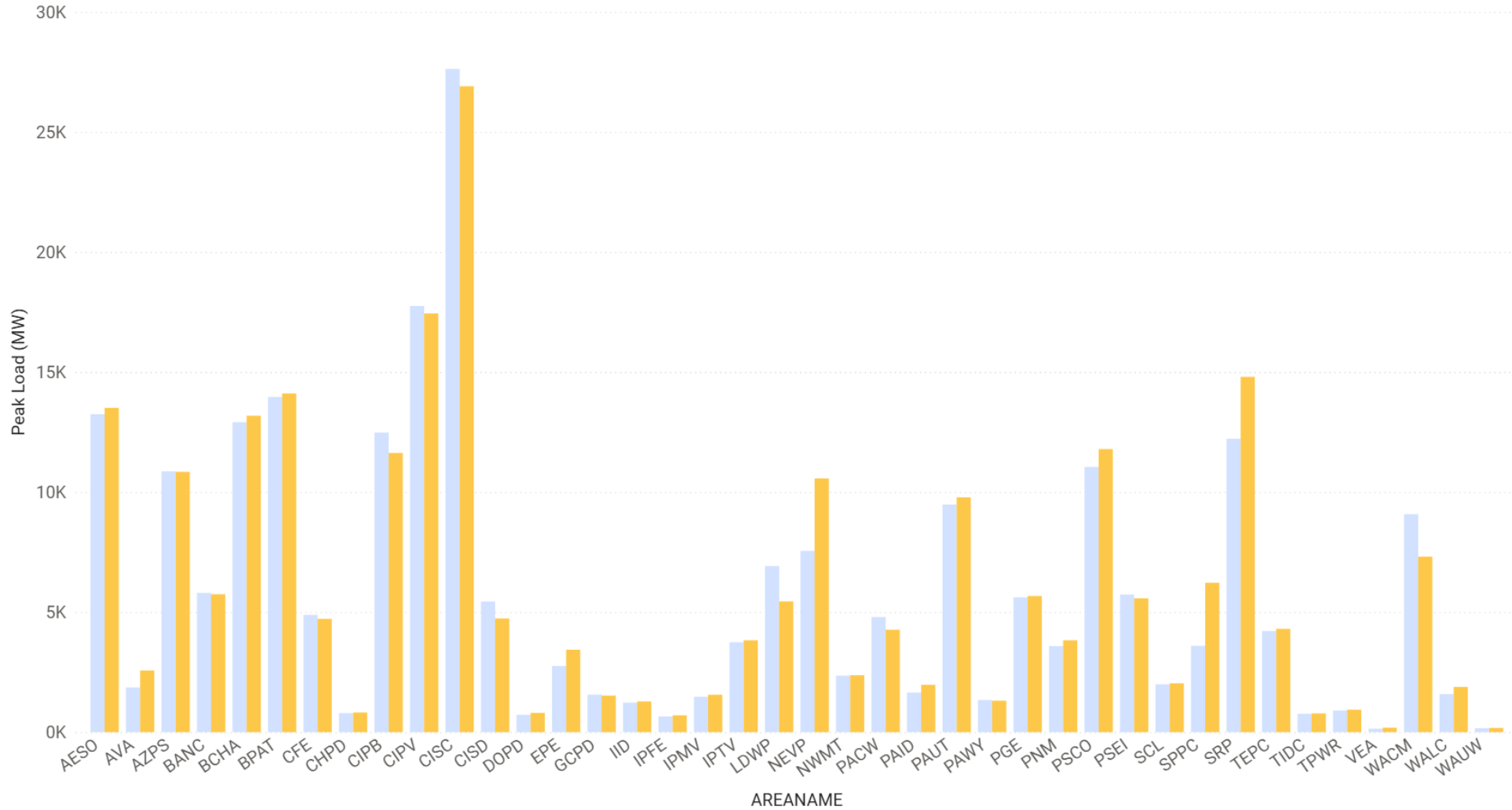
2036 ADS PCM V1 vs V2 (PF units only comparisons)



Peak Load

Peak Load by Area

CASENAME ● 2036_V1.1_PF_Units_Only_(1a)_2026-04-27 ● 2036_V2.x_DRAFT_2026-05-08

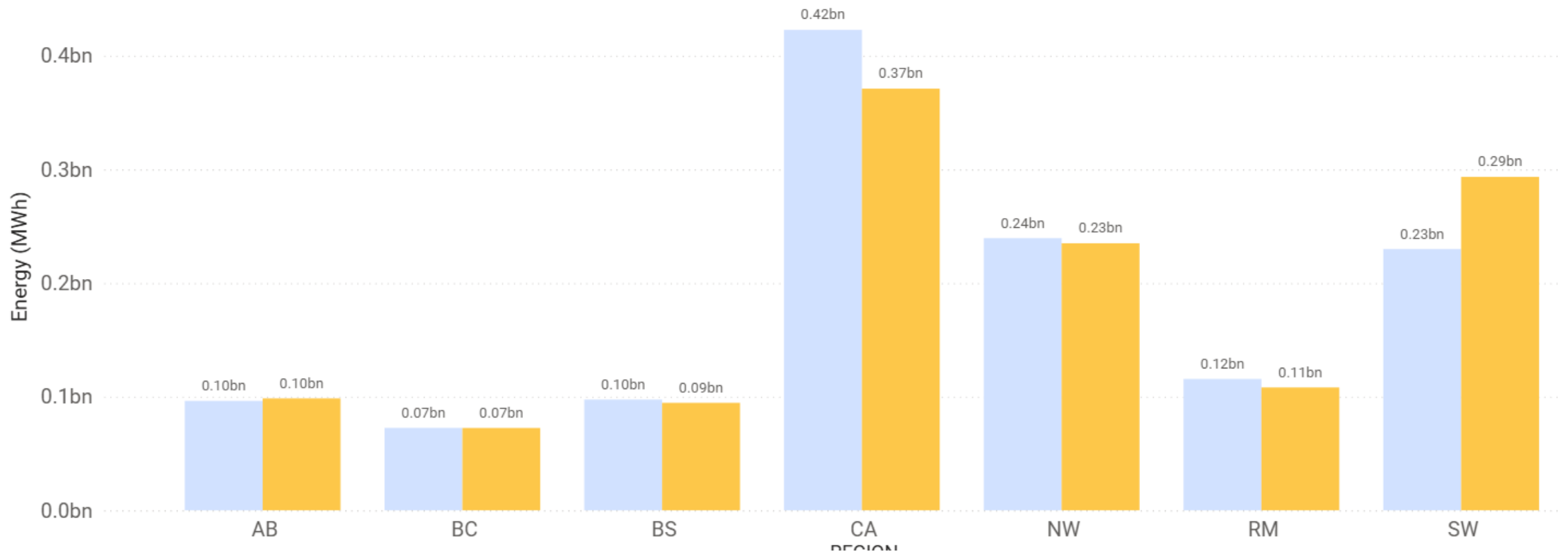




Annual Energy

Annual Energy by Subregion

CASENAME ● 2036_V1.1_PF_Units_Only_(1a)_2026-04-27 ● 2036_V2.x_DRAFT_2026-05-08

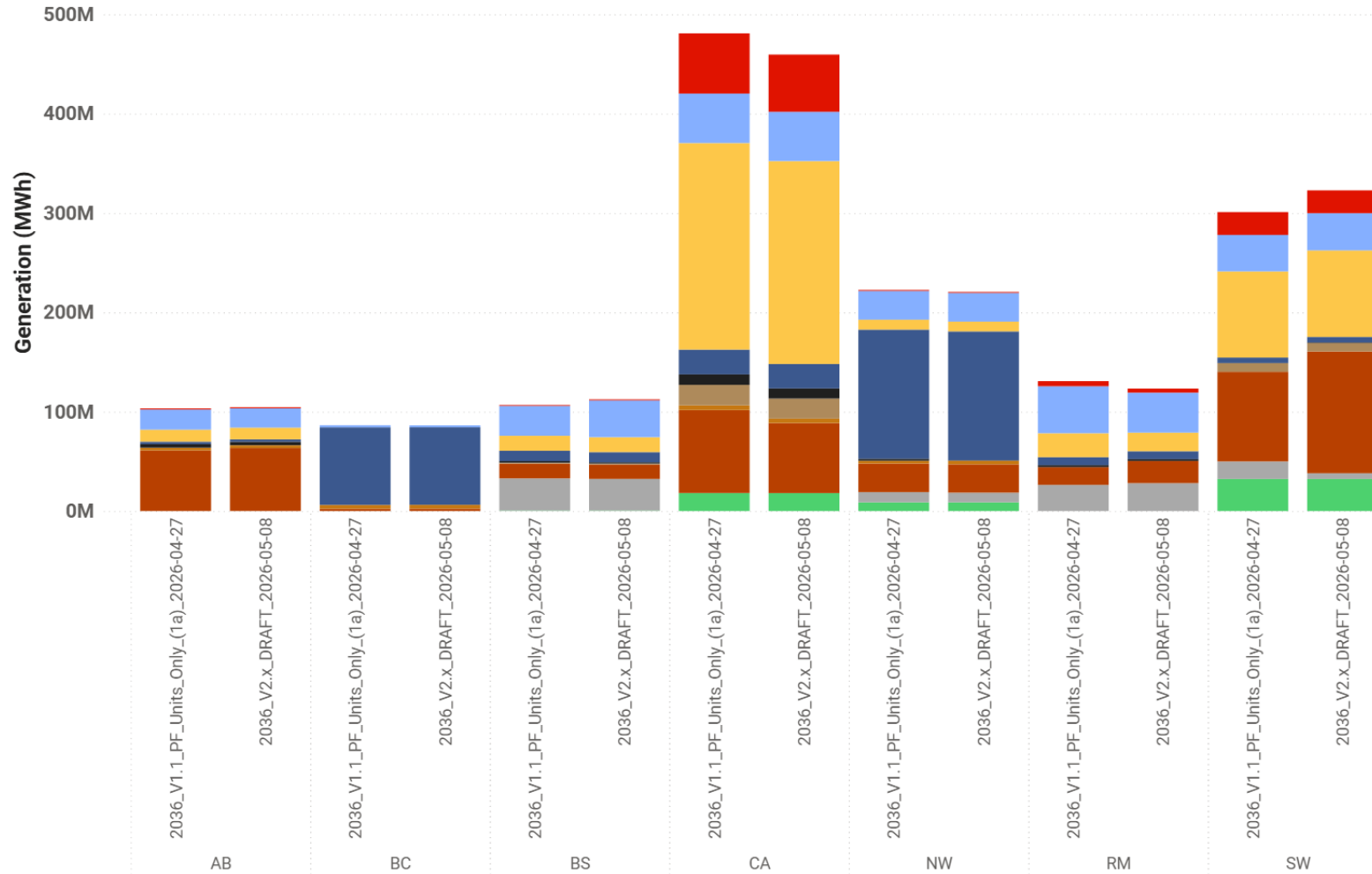




Annual Energy

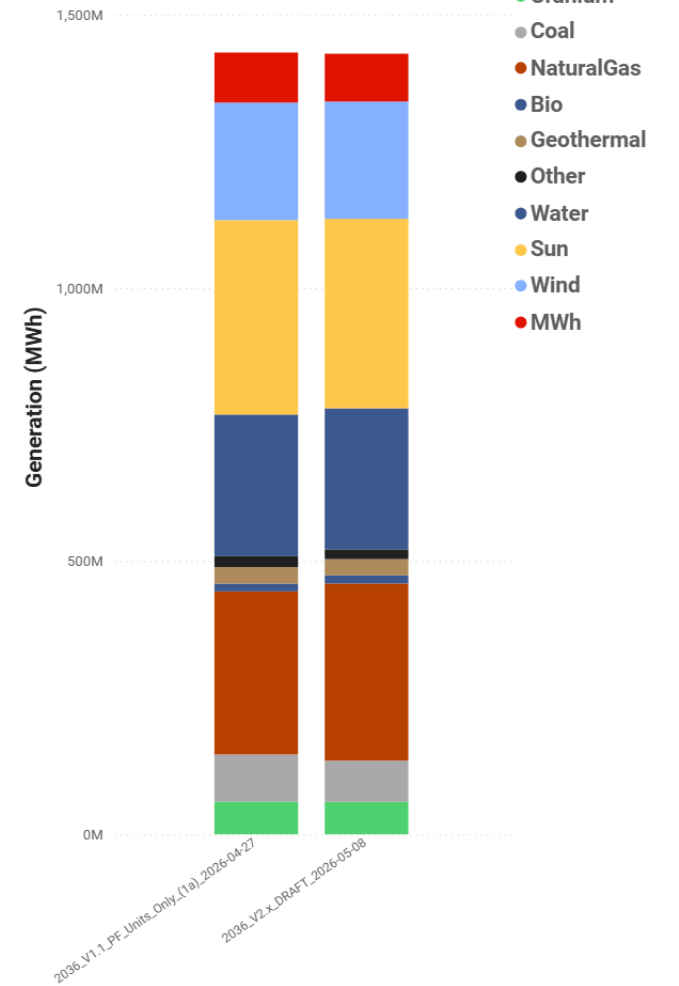
Generation by Fuel Type

Fuel Type ● Uranium ● Coal ● NaturalGas ● Bio ● Geothermal ● Other ● Water ● Sun ● Wind ● MWh



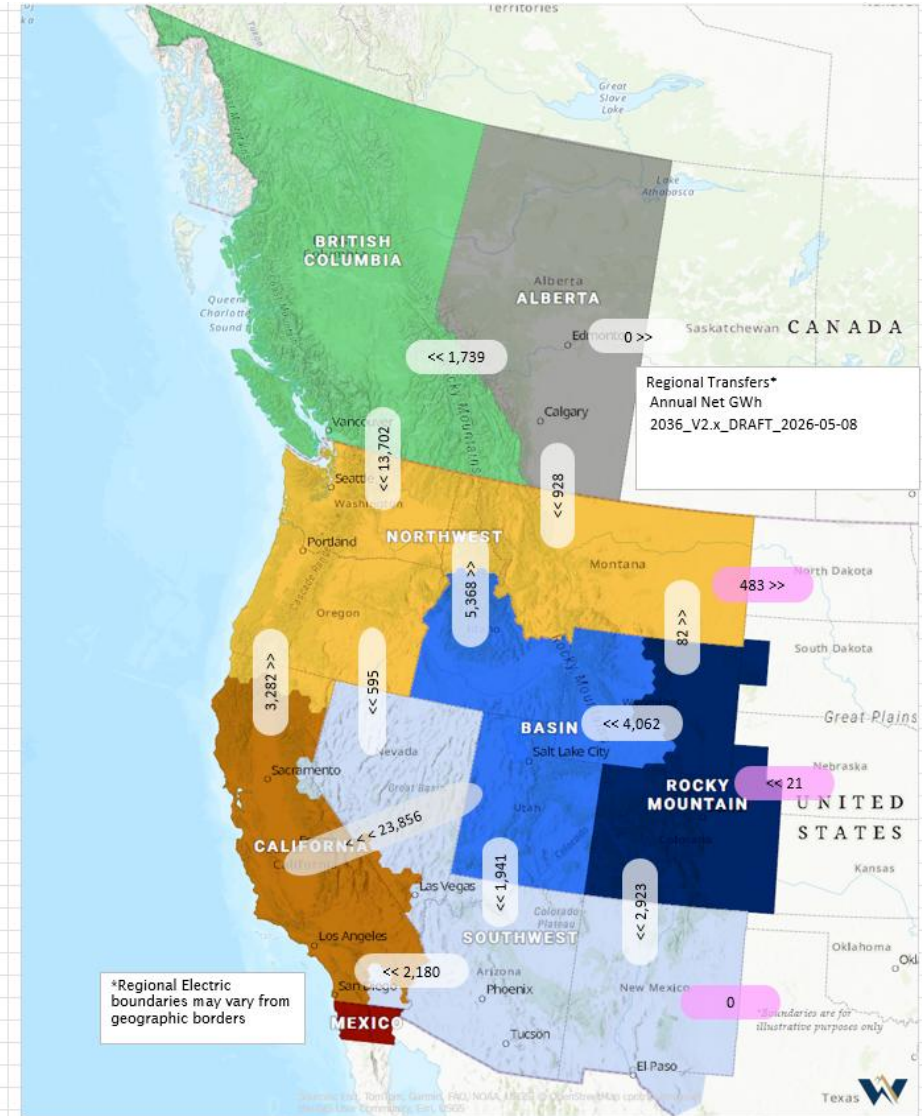
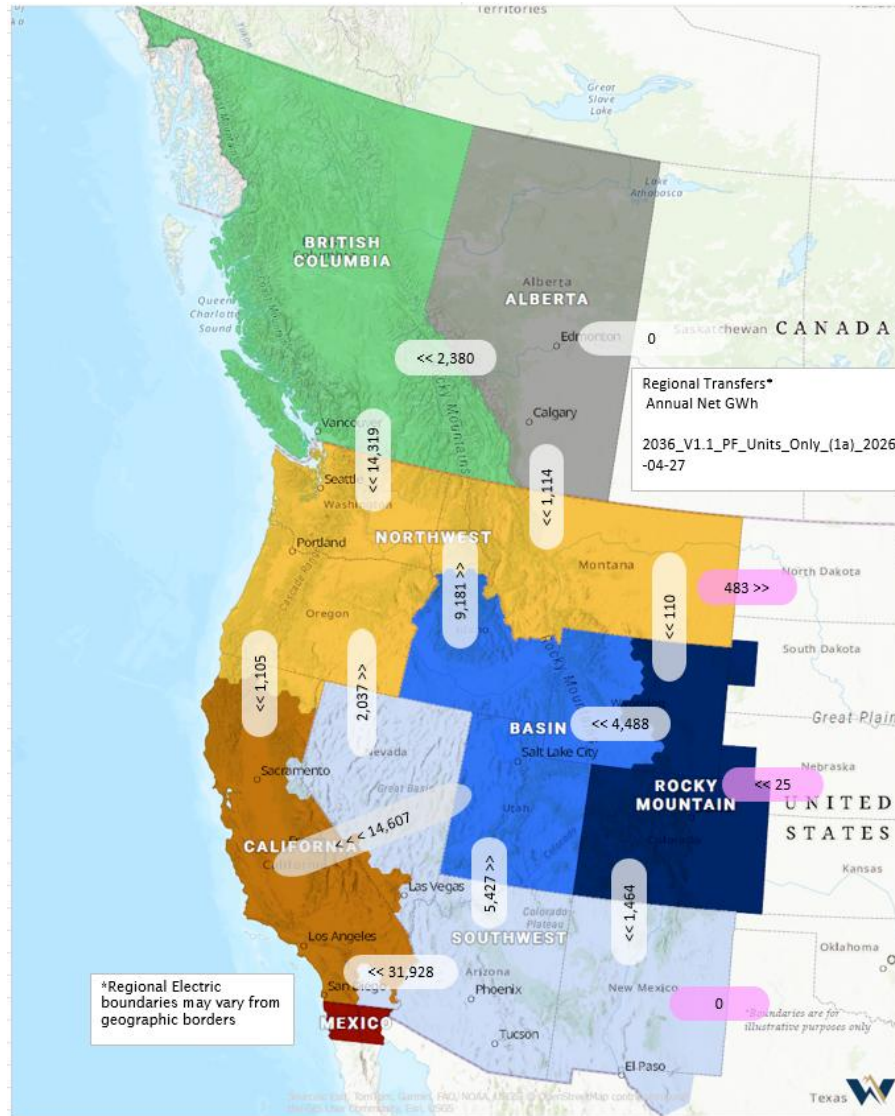
Generation by Fuel Type

Fuel Type ● Uranium ● Coal ● NaturalGas ● Bio ● Geothermal ● Other ● Water ● Sun ● Wind ● MWh





Regional Net Transfers

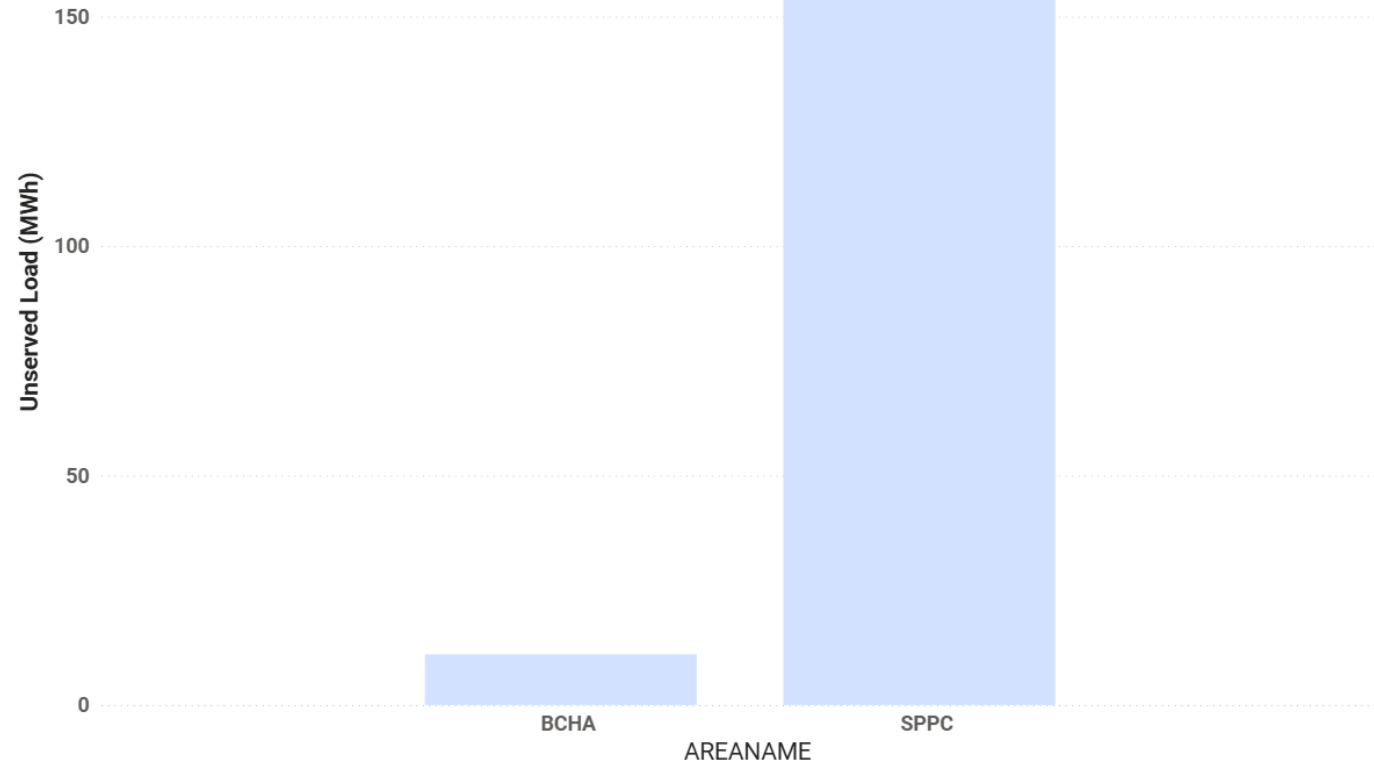




Unserved Load

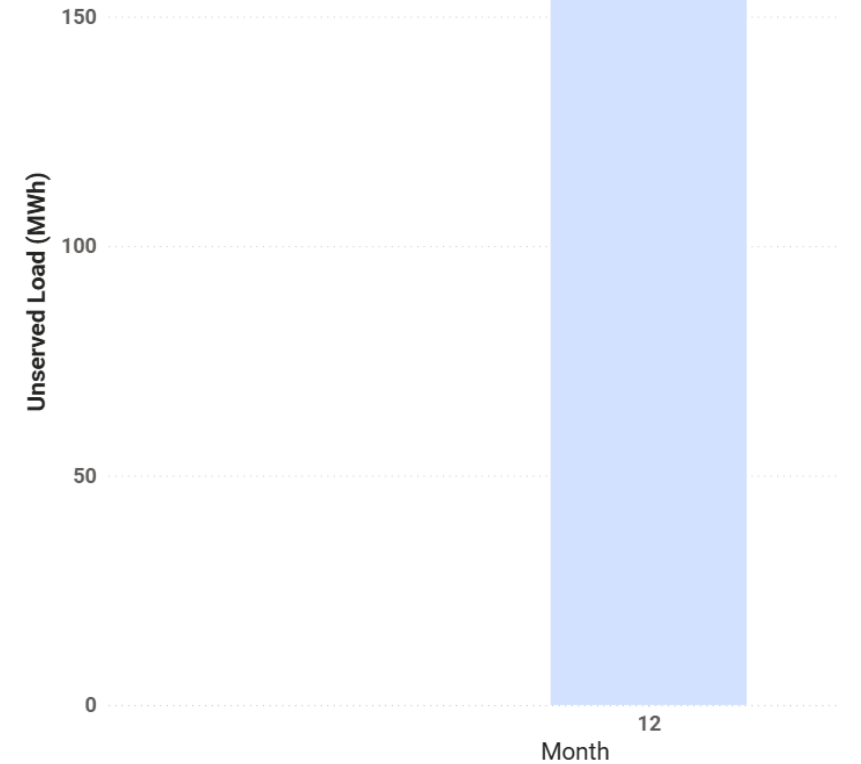
Unserved Load by Area

CASENAME 2036_V2.x_DRAFT_2026-05-08



Unserved Load by Month

CASENAME 2036_V2.x_DRAFT_2026-05-08

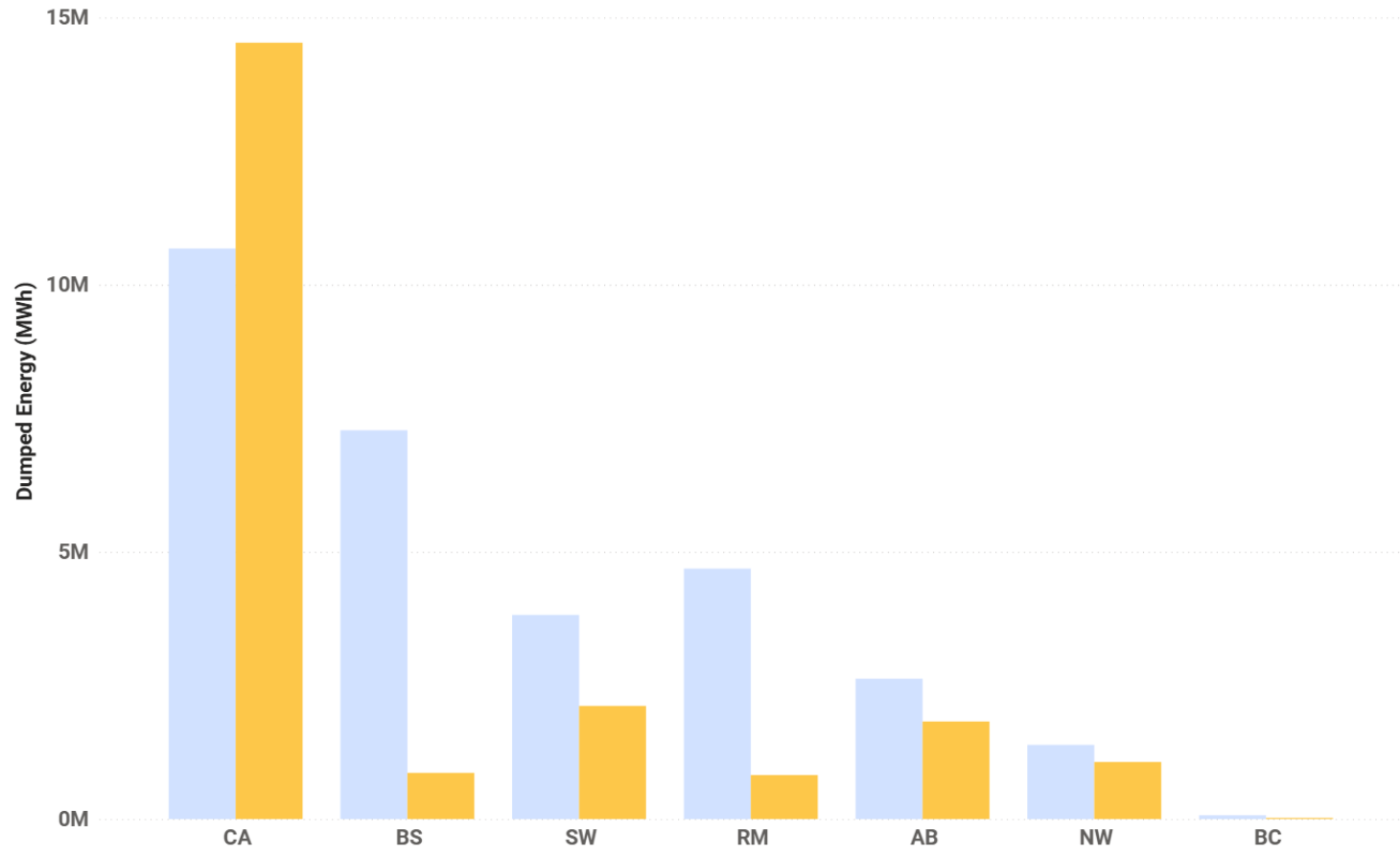




Dumped Energy

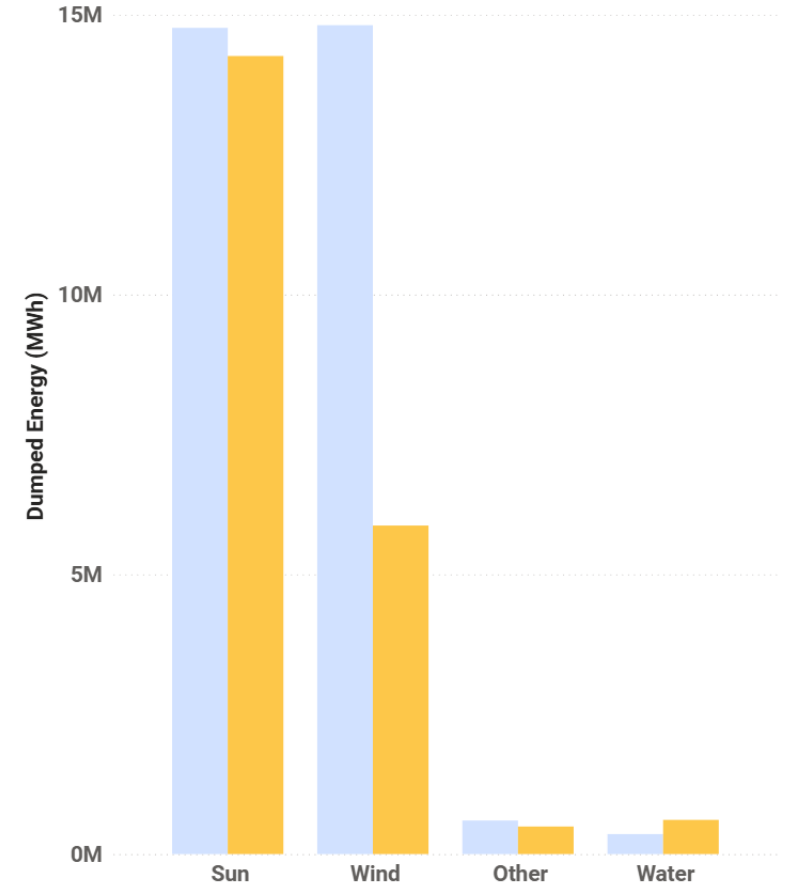
Dumped Energy by Sub Region

CASENAME 2036_V1.1_PF_Units_Only_(1a)_2026-04-27 2036_V2.x_DRAFT_2026-05-08



Dumped Energy

CASENAME 2036_V1.1_PF_Units_Only_(1a)_2026-04-27 2036_V2.x_DRAFT_2026-05-08

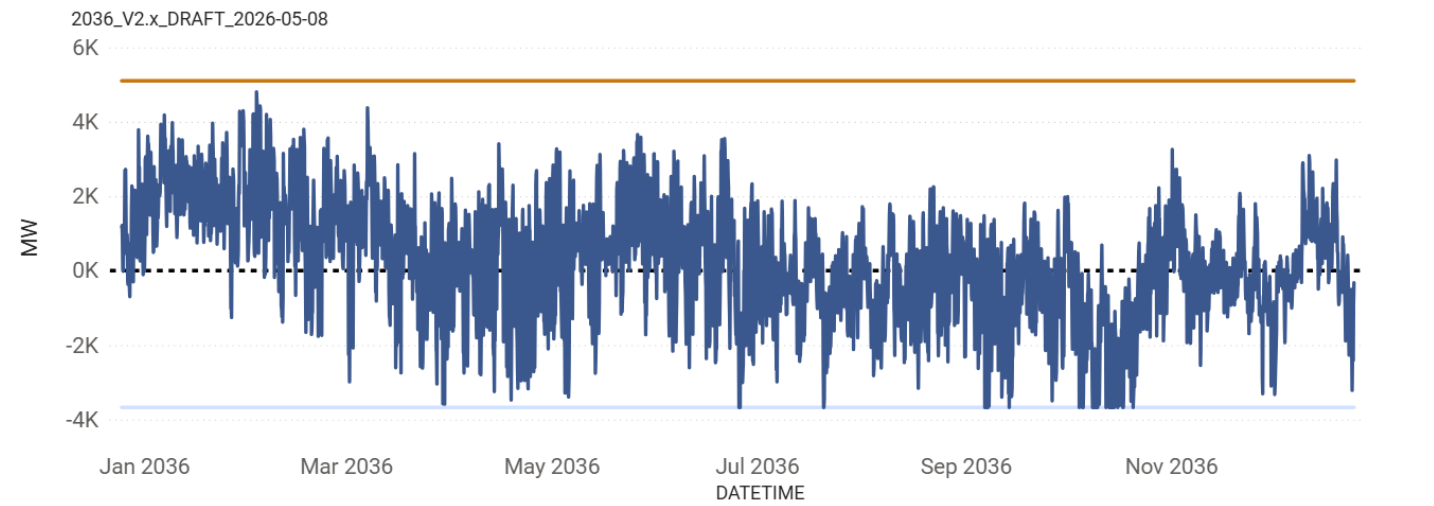
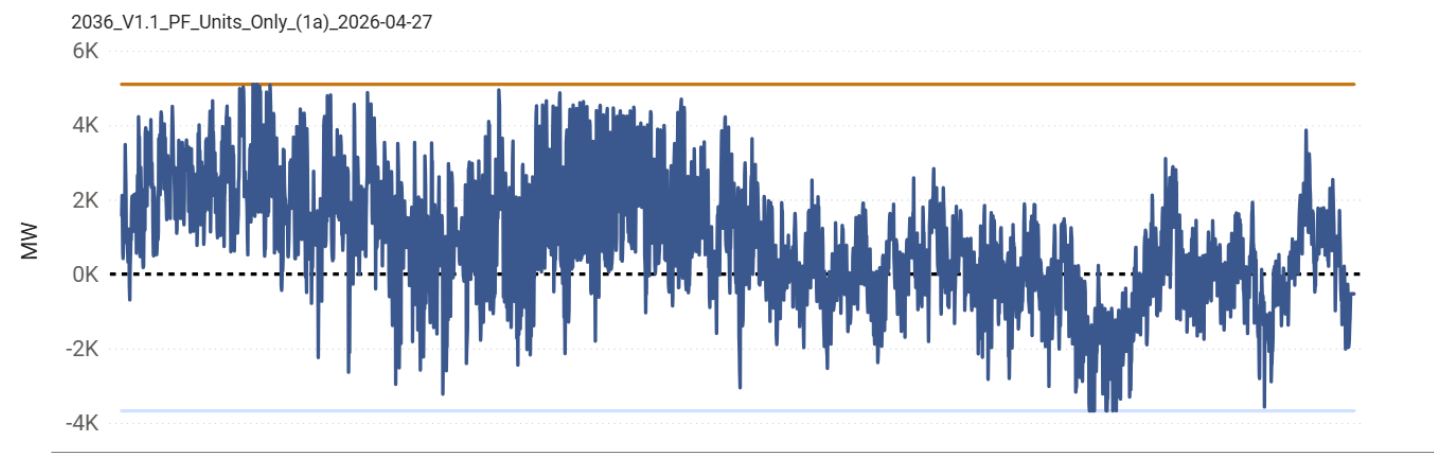




Paths

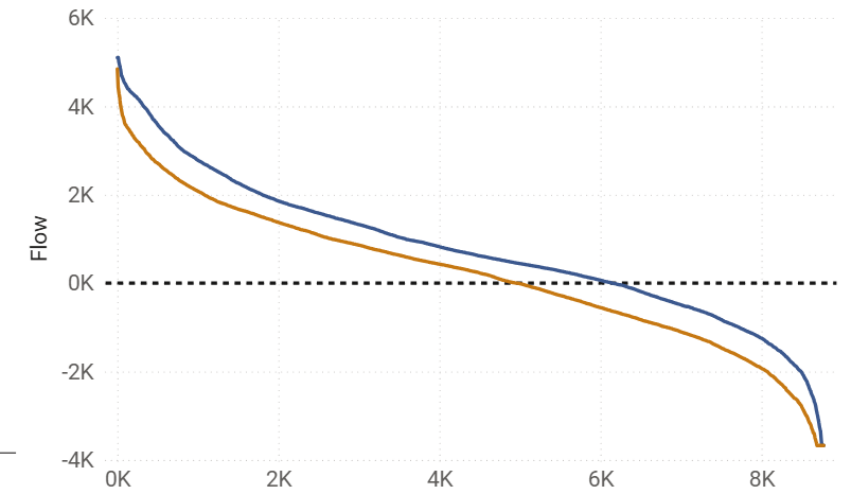
P66 COI N-S

● MAX_LIMIT ● MIN_LIMIT ● FLOW



P66 COI N-S

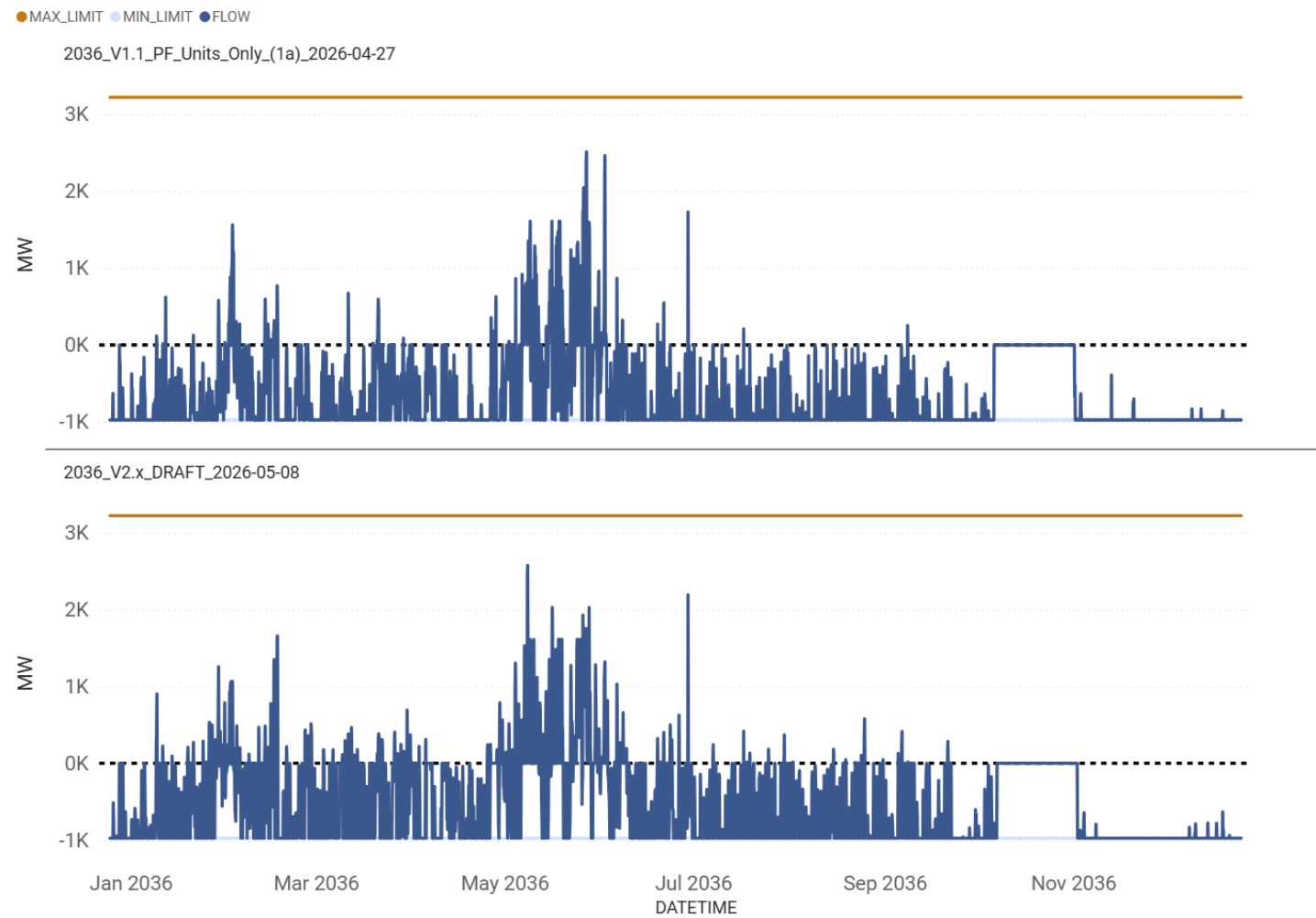
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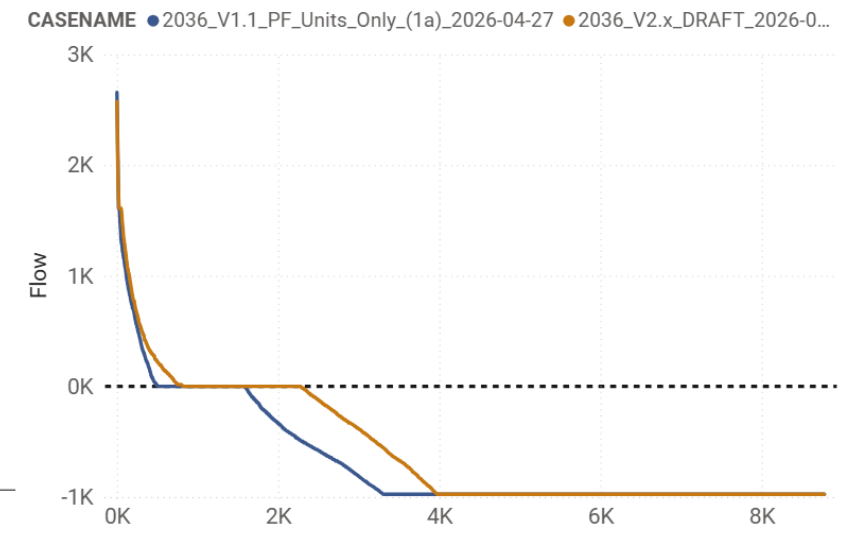


Paths

P65 Pacific DC Intertie (PDCI) N-S



P65 Pacific DC Intertie (PDCI) N-S

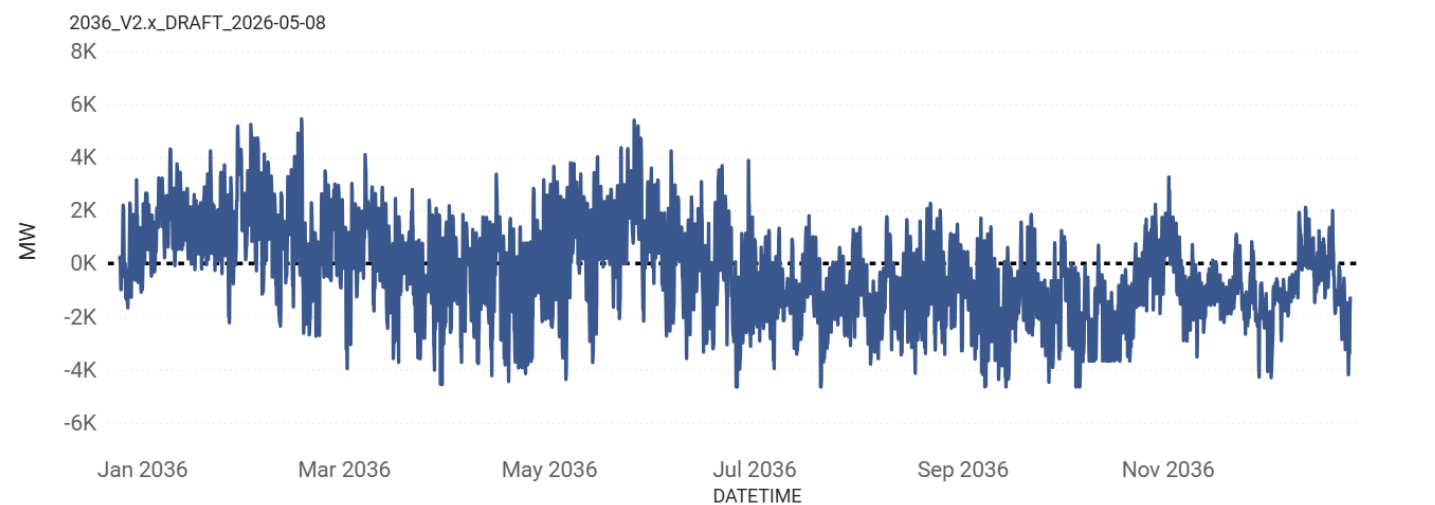
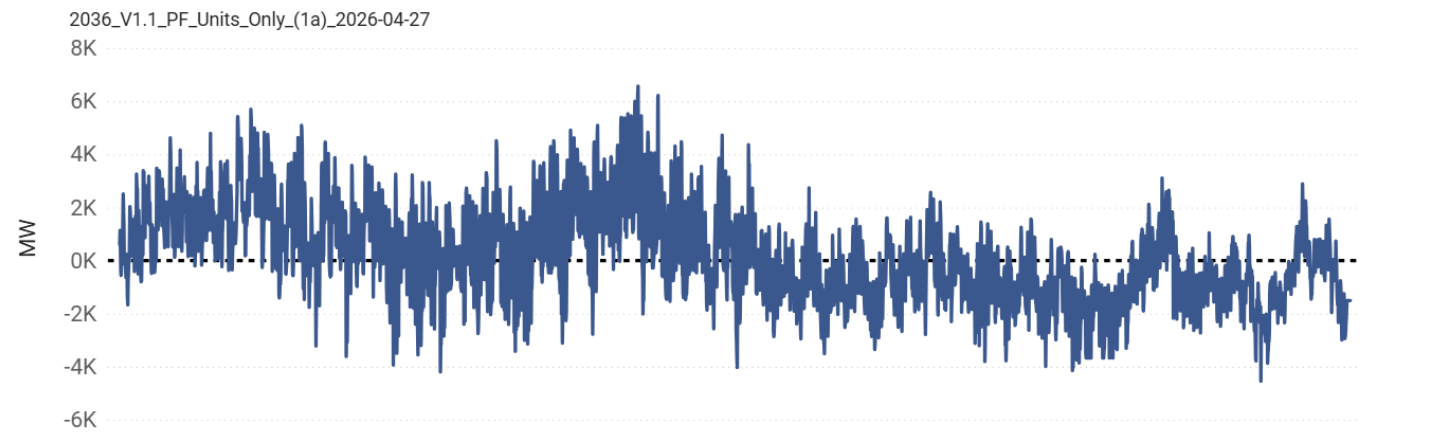




Paths

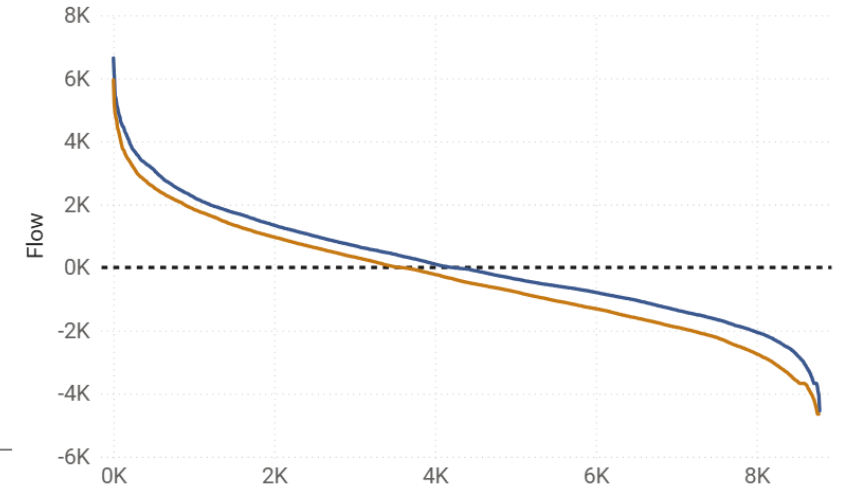
COI_and_PDCI (N-S)

● MAX_LIMIT ● MIN_LIMIT ● FLOW



COI_and_PDCI (N-S)

CASENAME ● 2036_V1.1_PF_Units_Only_(1a)_2026-04-27 ● 2036_V2.x_DRAFT_2026-0...

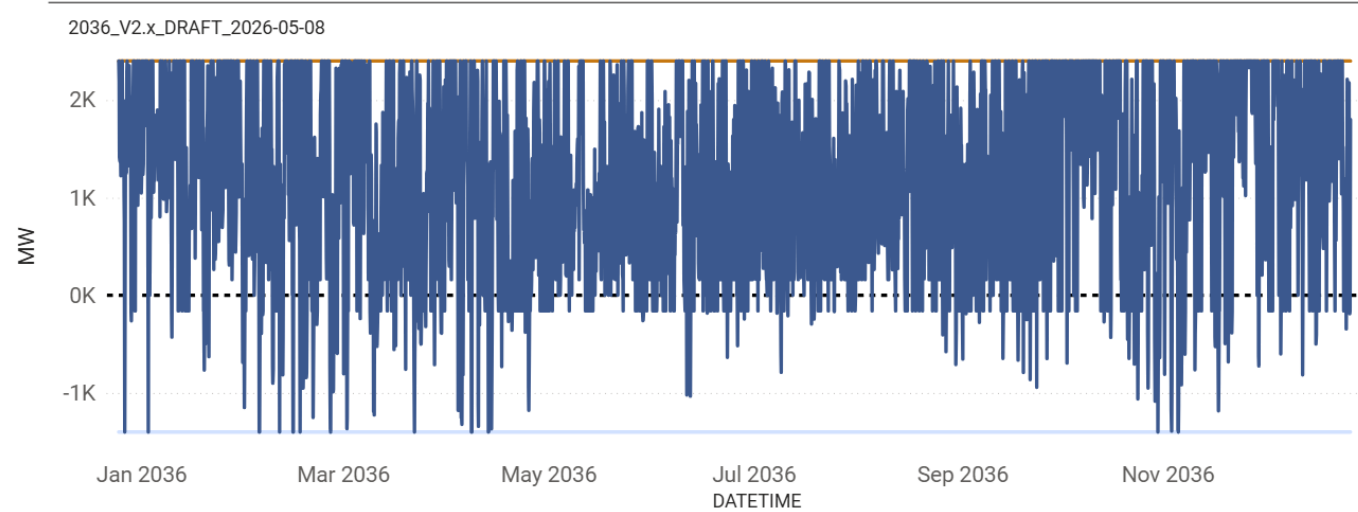
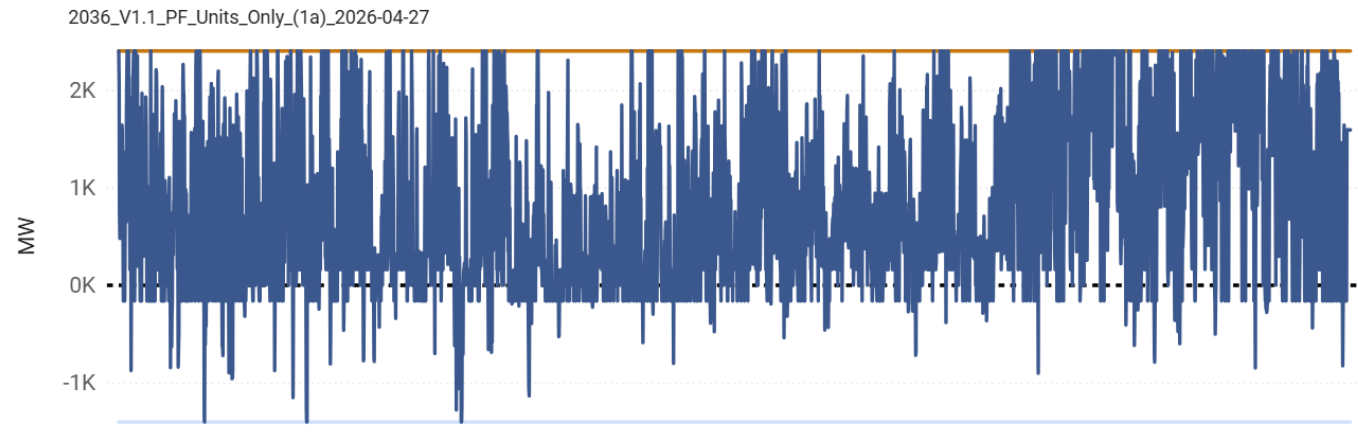




Paths

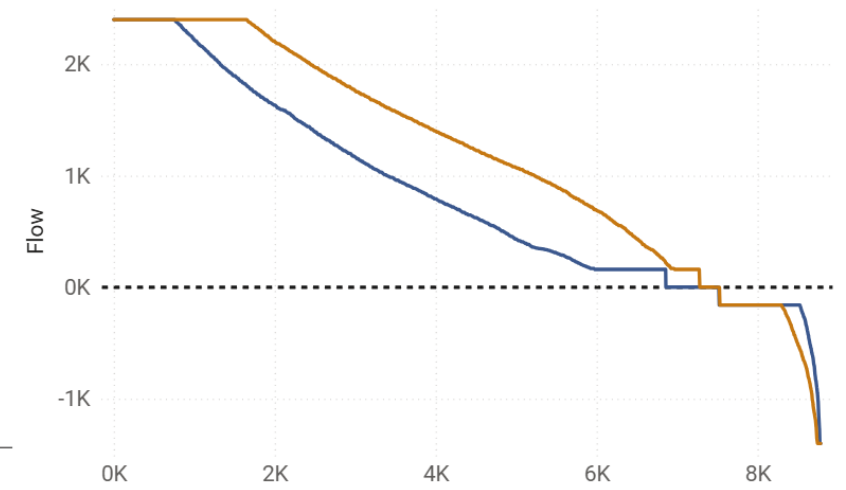
P27 Intermountain Power Project DC Line NE-SW

● MAX_LIMIT ● MIN_LIMIT ● FLOW



P27 Intermountain Power Project DC Line NE-SW

CASENAME ● 2036_V1.1_PF_Units_Only_(1a)_2026-04-27 ● 2036_V2.x_DRAFT_2026-0...



Next Steps

- Posting the 2036 ADS V2P case shortly for PCDS review



2036 ADS PCM V2L (LnR case)



Items in progress

- Generation placement feedback
- Case Cleanup
 - Double-check L&R units are correctly represented
 - Duplicates
 - Congestion
 - Gen placement
 - Gen distributions
 - Gens status
 - Hybrids
 - Ref Busses
 - Contracted units



Modeling Hybrid and Co-located Units

- Data from 2026 LnR Submittal
 - Hybrid Units: (109 units) 23.4 GW
 - Co-located Units: (335 units) 46.1 GW
 - Total Units: Hybrid and Co-located (444 units) 69.5 GW



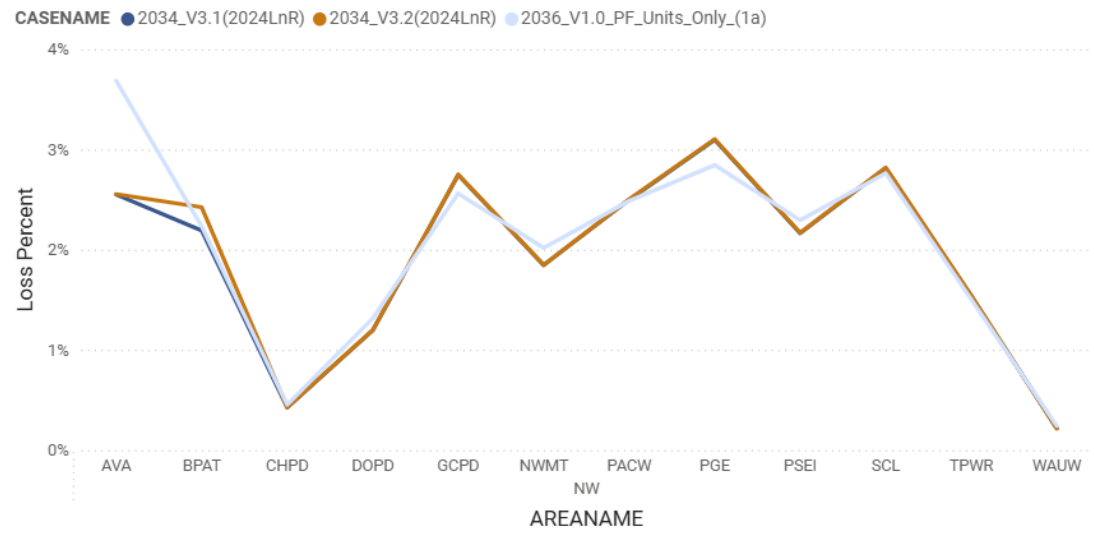
Summary of “Add-on” Transmission/Gen Projects

- Cascade Renewable (CRTP): V1 and V2
 - Not included, but a scenario to add in
- CrossTie: V1 and V2
 - In case, default to status off. Scenario to turn on
- SWIP (N/S): V1 and V2
 - In case, default to status online
- TransWest Express: V1 and V2
 - In case, default to status online
- SunZia Gen (on Bus 15080): V1 and V2
 - In case, default to status online
- GERP 1.0 and 2.0 (f.k.a. Evolving Grid): V2
 - 1.0-In case, default to status online
 - 2.0-In case, default to status online
- VEA (Sloan and Trout Canyon): V1 and V2
 - In case, default to status online
- North Plains Connector (as a generator turned off): V2
 - In case, default to status off

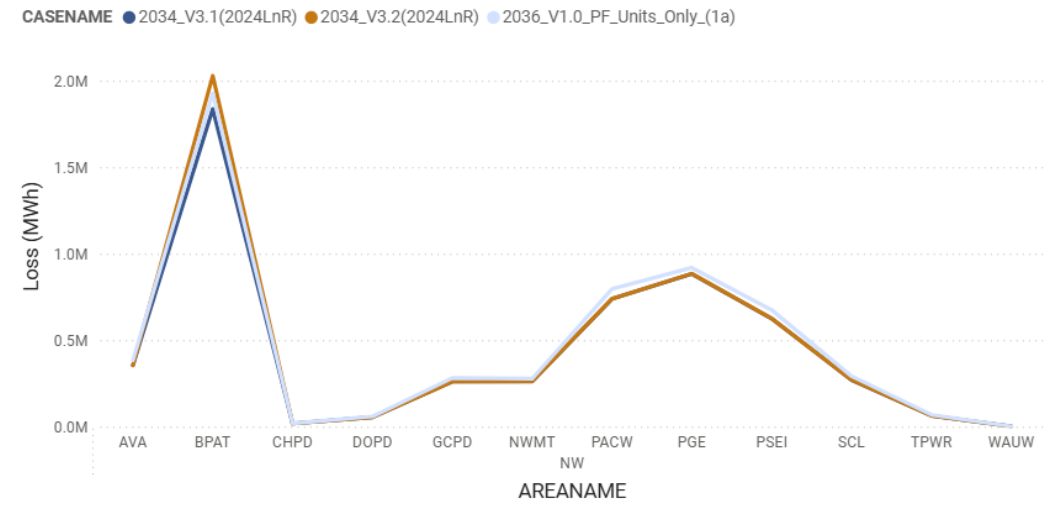


Losses

Loss Percent by Area



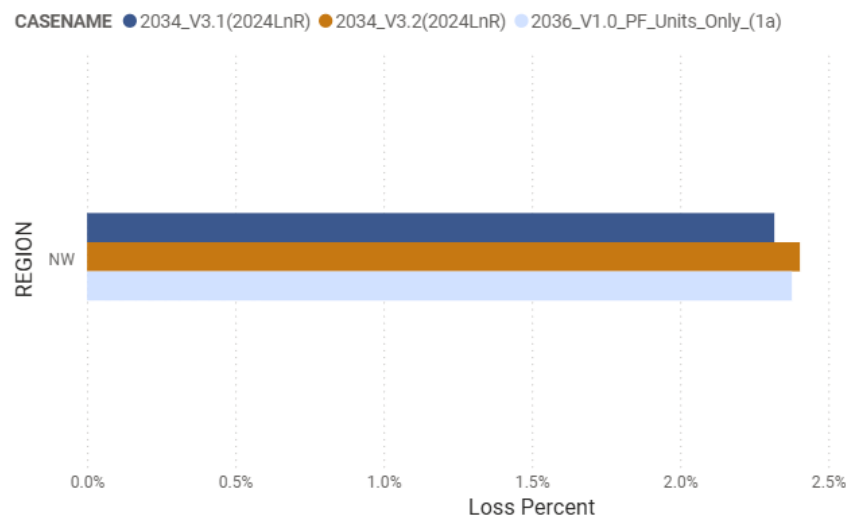
Loss (MWh) by Area



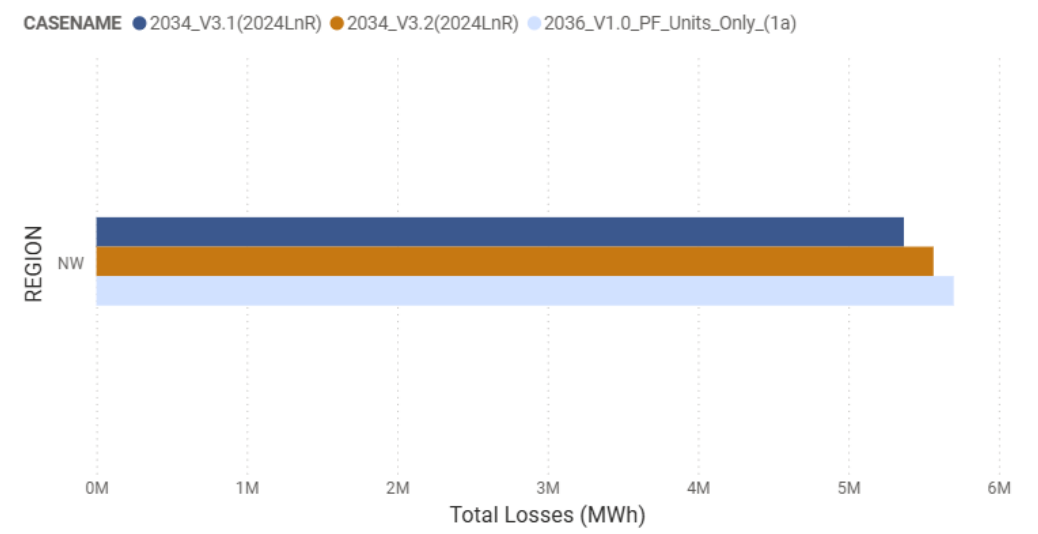


Losses – NW Region

Loss Percent of Load - NW



Loss Total - NW





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