

## Prioritized List of Power Flow Model Shortcomings

---

WECC staff's prioritized list of power flow model shortcomings for 2024 is:

1. Reduce the amount of generators dispatched at their reactive power limits.
2. Reduce the amount of generators above the modeling threshold without models.
3. Address natural gas generators whose summer Pmax value is equal to or greater than their winter Pmax values.
4. Address generators with inconsistent time constants.
5. Address generators with inconsistent speed damping coefficients.
6. Address generators with inconsistent DC exciter self-excitation parameters.

The targets for achieving the goal of 20% reduction are shown below.

24HS3b.sav	Metric
Gens at reactive power limits	113
Gens without models	320
Natural gas gens Pmax summer/winter	780
Gens with inconsistent time constants	241
Gens with inconsistent speed damping coeffs.	207
Gens with inconsistent DC self-exciter params.	26
TOTAL	1687
25HS3a.sav Goal	1349