**Western Demand Gathering V4**

* **Input:**

--Hourly time series demand profile for each Balancing Authority (BA) from EIA in 2016

--County-wise population profile from Census 2010

--Western Interconnect (WECC) BA map from EIA, 01/05/2017

* **Output:**

--Hourly time series demand profile for 16 loadzones in WECC

* **Methodology**

1. Get BA-County mapping via utility companies’ info from EIA (as we did in v3).
2. Run a geographical check on the BA-County mapping with the BA map (*Balancing\_Authorities\_JAN17.pdf*) **manually**, to fix the inaccurate mapping we get in step 1.
3. Come up with a County-BA one to one mapping.
4. Split BA profiles in related loadzones proportional to the total population of the covered counties in the corresponding loadzones.
5. Assemble final profiles in each loadzone based on the list of related Bas.
6. Apply adjustment based on external sources/reports in *Demand Numbers for Reference.xlsx.*