This spreadsheet provides the aggregate state level data, calculations and resulting renewable energy (RE) targets that inform the 111(d) state goals. The spreadsheets show two separate ways of implementing the calculations: one that calculates targets with RE expressed as megawatt-hour (MWh) generation and one with RE expressed as a percent of 2012 generation. Both methods derive the same results if 2012 generation is used as the basis of your percentages. The state annual RE targets expressed in megawatt-hours have been used as inputs to the proposed and alternative state goal calculation that is outlined in the Goal Computation TSI.

**Step Number**

1
2
3
4
5
6
7
Calculations to derive state RE targets

This spreadsheet provides the aggregate state level data, calculations and resulting renewable energy (RE) targets that inform the 111(d) state goals. The spreadsheets show two separate ways of implementing the calculations: one that calculates targets with megawatt-hour (MWh) generation and one with RE expressed as a percent of 2012 generation. Both methods results if 2012 generation is used as the basis of your percentages. The state annual RE targets expressed in MWh have been used as inputs to the proposed and alternative state goal calculation that is outlined in the Goal D and related materials. The steps of the RE methodology are as follows:

**Action**
- Calculate 2020 effective RE levels for states with RPS policies based on each state's RPS requirements
- Assign states to NERC-based regions
- Average 2020 effective RE levels present in each region, assign that to all states in the region as the RE Generation Target achievable by 2030
- Determine the annual growth factors required for each region to meet their respective regional RE targets by 2030
- Apply appropriate regional growth factor to each state's 2017 BAU RE generation levels (equal to 2012 generation levels) to derive 2017 RE generation targets under the proposed approach. Apply the growth factor annually in each state for all subsequent years through 2029. If the estimated RE generation is equal to or higher than the state's share of the regional RE target, apply the latter as their target in that year and all subsequent years.
- Interim and final RE targets are calculated in this spreadsheet for informational purposes, though the annual RE targets calculated in step 5 are the direct input to state goal calculation. The interim RE targets for the Proposed State Goal method are calculated by averaging each state's 2020-2029 annual RE targets. The 2029 annual RE target for each state is applied in 2030.
- Interim and final RE targets are calculated in this spreadsheet for informational purposes, though the annual RE targets calculated in step 5 are the direct input to goal calculation. The interim RE targets for the Alternative State Goal method are calculated by averaging each state's 2020-2024 annual RE targets. The 2024 annual RE target for each state is applied in 2025.
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**Alaska and Hawaii Historical RE Generation Data & Growth Rate Calculation**

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Growth Rate 2002-12: 9% 11%
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