Emissions Avoided Calculation Method

This figure is calculated by using actual or projected data for Total Net Energy Generated or Stored [MWh], multiplying by the most recent data provided by the EPA for State Output Emission Rates [lb/MWh][i] for CO_2e based on which state the operational site resides in, converting to metric tons, and then aggregating data across all relevant sites. For this calculation, LRE assumes that emissions rates and GRID boundaries are consistent across the state.

Equivalent Homes Powered for a Year Calculation

This figure is calculated using actual or projected data for Total Net Energy Generated or Stored [MWh], obtaining the relevant state-level average monthly residential energy consumption data from US EIA[ii], making necessary unit conversions, dividing the data for total net energy in that year by the residential energy consumption to find the site's equivalent homes powered calculation, and aggregating all site data across the relevant time span. For this calculation, LRE assumes energy consumption is consistent across the entire state.

Emissions Avoided Equivalent to Carbon Sequestered by US Acres of Forest in One Year Calculation

This figure is calculated using actual or projected data for Total Emissions Avoided and multiplying by the relevant GHG equivalency factor provided by the US EPA.

Estimated Generation/Output

This figure is calculated using the installed MWac of the project, multiplying by the relevant US average capacity factor, making necessary unit conversions, and multiplying by the relevant timeframe of the metric.

LRE has not obtained independent third-party verification for carbon avoidance and reduction claims.

---

[i] egrid2022_summary_tables.pdf (epa.gov)
[ii] table_5A.pdf (eia.gov)