

# United States Electric Vehicle Battery Manufacturing/Demand: Environmental Defense Fund Analysis



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The Environmental Defense Fund (“EDF”) announced issuance of a report titled:

*U.S. Electric Vehicle Battery Manufacturing on Track to Meet Demand (“Analysis”)*

The EDF *Analysis*’ objective was to determine whether United States electric vehicle (“EV”) battery production capacity could meet projected demand for EV batteries driven by the United States Environmental Protection Agency (“EPA”) proposed emission standards for light- medium- and heavy-duty vehicles.

EDF states that the results of the *Analysis* indicate:

- \$92 billion of investment in batteries have been announced in the United States
- Over 1,000 gigawatt hours per year of United states battery production capacity has been announced to come online by 2028
- Announced capacity is sufficient to meet EPA’s projected demand in 2030 and 85% of the projected demand in 2032.

The vehicle categories for EV battery demand are described as follows:

- 90% from light-duty passenger vehicles
- Medium-duty and heavy-duty vehicles will be much smaller

The *Analysis* states that United States EV battery demand is projected to be 576 gigawatt hours per year in 2017 and 1,151 – 1,225 gigawatt hours in 2032.

The EDF *Analysis* evaluates battery demand that could result if manufacturers choose to sell battery electric vehicles to meet both EPA’s Multi-Pollutant Emission Standards for light- and medium-duty vehicles and EPA’s Phase 3 Greenhouse Gas Emissions Standards for Heavy-Duty Vehicles.

A table in the *Analysis* lists the states with the highest announced battery manufacturing which include:

- Michigan
- Georgia
- Tennessee
- Kentucky
- Indiana
- Ohio
- South Carolina

- Arizona
- California
- Illinois

A copy of the *Analysis* can be downloaded [here](#).