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# By the Numbers: DOE's Electric Car Spending & Targets

By [Josie Garthwaite](#) Jul. 14, 2010, 5:00pm PDT [No Comments](#)

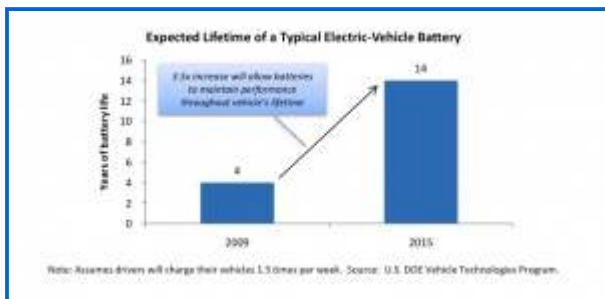
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The Obama administration has kicked off its [electric car and battery offensive](#) with a report from the Department of Energy laying out the facts and figures for its investments in advanced vehicles and batteries so far under the Recovery Act.

Job figures (“tens of thousands,” “hundreds”) are somewhat vague — given that this is a progress report on spending that’s meant to stimulate economic growth, coming from an administration that has been [touting the green jobs created through Recovery Act investments](#). But the 8-page document does provide a snapshot of where these funds are going and what kind of changes the feds are hoping they’ll bring about. You can read the full report [here](#), and check out our digit-by-digit highlights below.

- 1: Number of times that DOE mentions Ford and LG Chem in its report.
- 2: The number of factories producing advanced vehicle batteries in the U.S. in 2009. (Also the number of times that DOE mentions battery maker A123 Systems, Tesla Motors, Fisker Automotive and Nissan in its report.)
- 4: The number of new battery plants that the DOE expects to be operational by year’s end.
- 5: Number of times that DOE mentions General Motors in its report.
- 9: The number of new battery plants slated to open in the U.S. in total with Recovery Act funds.



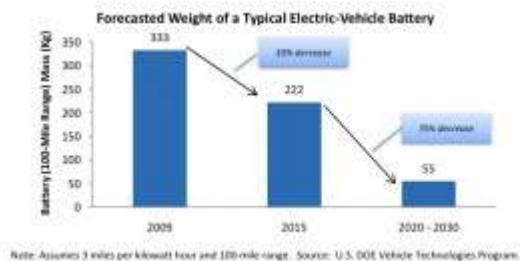
**14:** Number of years that the DOE expects electric vehicle batteries to last by 2015 (if recharged 1.5 times per week), compared to an estimated 4-year lifespan for batteries produced in 2009.

**20:** Percentage of the world's production capacity for advanced vehicle batteries that will reside in the U.S. by 2012 as a result of Recovery Act investments. The DOE expects this to grow to 40 percent by 2015.

**21:** The number of plants helped along by stimulus grants that are expected to make components for batteries or electric vehicles.

**26:** Number of battery and component plants that have started construction, either breaking ground on new facilities or installing new equipment at an existing factory.

**30:** Number of factories that the DOE expects to come online producing advanced vehicle batteries in the U.S. by 2012.

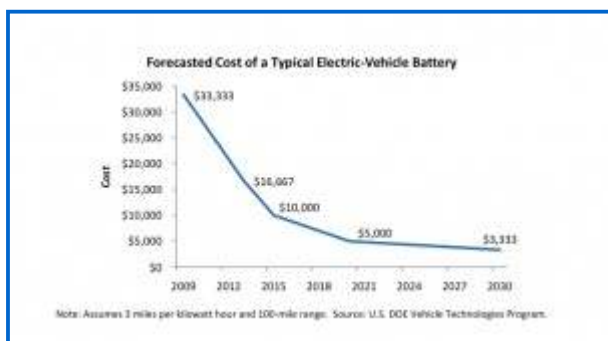


**33:** Percentage by which the DOE expects the typical weight of an electric vehicle battery to drop by 2015 compared to 2009 batteries, thanks to improved energy density.

**>50:** Percentage of oil consumed in the U.S. that's imported.

**95:** Percentage of power used to move cars, trucks, ships, trains and planes in the U.S. that comes from oil.

**<500:** The number of electric vehicle charging locations available in the U.S. prior to stimulus investments.



**4,000:** The DOE's estimate of the dollar cost for a battery delivering 40 miles of electric range (in a plug-in hybrid, for example) in 2015, compared to an estimated \$6,700 in 2013 and more than \$13,000 in 2009.

**5,000:** The number of charging stations that Coulomb Technologies plans to deploy at residential and commercial locations in nine metro areas using a \$15 million stimulus grant.

**10,000:** The DOE's estimate of the dollar cost for the battery needed to give an electric car 100 miles of range by the end of 2015, compared to an estimated \$16,000 in 2013 and \$33,000 in 2009.

**20,000+:** The number of new electric vehicle charging stations expected to be available in the U.S. at residential, commercial and public locations by December 2013.

**80 million:** Number of additional square meters of separator materials for lithium-ion batteries that Celgard will be able to produce at its plant in North Carolina each year following completion of a factory expansion supported with a \$49.2 million DOE grant.

**5 billion:** Amount in dollars that the DOE is investing in electric vehicle batteries, components, charging infrastructure and other efforts to “electrify America’s transportation sector” through the Recovery Act and the Advanced Technology Vehicles Manufacturing loan program.

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