Aptera Solar Electric Vehicle Exceeds Daily Solar Energy Target in Independent TÜV Rheinland Testing

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More than 4 kWh delivered to the battery on each of three test days

CARLSBAD, Calif., Aug. 27, 2026 (GLOBE NEWSWIRE) -- Aptera Motors Corp. (Nasdaq: SEV), a solar mobility company advancing ultra-efficient transportation, announced today that TÜV Rheinland has independently measured the daily solar energy generation of Aptera's solar electric vehicle. Over three consecutive days of on-site testing in Southern California in July, the vehicle delivered more than 4 kilowatt-hours (kWh) of usable solar energy into its battery pack on every test day.

TÜV Rheinland is one of the world's leading independent testing and certification organizations, founded in Germany in 1872 and operating from roughly 500 locations in more than 50 countries. It has tested and certified solar technology since 1982, and its findings are relied upon across the global solar industry by investors, lenders, and buyers.

Aptera is an electric vehicle that can be charged from any standard outlet or charging station. What sets it apart from other electric and hybrid vehicles are integrated solar panels capable of providing meaningful range by charging from the sun. Aptera has long stated a target of achieving up to approximately 40 miles of solar range per day at 100 watt hours per mile, or 4.0 kWh of useable energy, under favorable conditions. Now TÜV Rheinland's tests have exceeded this metric on three separate test days.

The bar TÜV Rheinland measured against was 4.0 kWh of usable energy delivered to the battery in a single calendar day. Their solar expert Dr. Giorgio Bardizza was on site at Aptera's final assembly facility in Carlsbad, California for three separate days in July, each day testing a different scenario at Aptera's request, measuring from sunrise to sunset with their own calibrated instruments. In each case the energy was measured where it entered the battery, after conversion losses, rather than at the panels. The solar range figures below are calculated from that measured energy, assuming Aptera's targeted 100 watt-hours per mile vehicle efficiency.

- **Parked and untouched.** Fixed position, hatch closed, left completely alone all day. 4.23 kWh, roughly 42 miles estimated of solar range.
- **Repositioned once at solar noon.** Turned a single time when the sun was highest, the way an owner might park facing the other direction after lunch. 4.40 kWh, roughly 44 miles of estimated solar range.
- **Solar maxxed.** Rear hatch raised and angled toward the sun through the day. 4.75 kWh, roughly 47 miles of estimated solar range, achieved on the day with the least available sunlight of the three.

Even without repositioning the vehicle at all, the measured energy exceeded Aptera's stated daily solar target. Every additional condition tested widened the margin. These results reflect clear July conditions in Southern California; actual daily solar contribution will vary with weather, geographic location, parking orientation, and season.

Aptera and TÜV Rheinland have published the complete test report so anyone can review the methodology, instrumentation, and full data set. The full report is available here, and a video documenting the testing is available on Aptera's YouTube channel .

"When American innovation turns sunlight into miles, independent testing helps turn that promise into confidence," said Jonathan Kotrba, Vice President of Products at TÜV Rheinland North America. "TÜV Rheinland is proud to help advance the next generation of solar technology."

"The most exciting result is the day we simply parked the vehicle in the sun and let it do the work," said Steve Fambro, Co-Founder and Co-CEO of Aptera. "We built this system because we believed the sun could do this much work, and now an independent lab has measured it. Solar mobility is here."

This tested solar power system is Aptera's own work end to end, spanning the compound-curved panel architecture, a proprietary multi-channel solar charge controller with custom firmware, and the vehicle's power distribution architecture. That full-stack ownership is what allowed the system to be optimized and verified as a complete power production unit.

"A technology that can reshape how the world moves has now been independently verified," said Chris Anthony, Co-Founder and Co-CEO of Aptera. "For drivers in sunny climates, that means everyday driving powered by the sun instead of fuel or the grid. This is the high standard we're holding ourselves to as we move toward production."

Aptera's validation program continues, with further independent validation work planned on a range of vehicle performance metrics.

About Aptera Motors Corp.

Aptera Motors Corp. (Nasdaq: SEV) is a solar mobility company driven by a mission to advance the future of efficient transportation. Its flagship vehicle is conceived to be a paradigm-shifting solar electric vehicle that leverages breakthroughs in aerodynamics, material science, and solar technology to pursue new levels of efficiency. As a public benefit corporation, Aptera is committed to building a sustainable business that positively impacts its stakeholders and the environment. Aptera is headquartered in Carlsbad, California. For more information, please visit www.aptera.us.

Forward-Looking Statements

This press release contains “forward-looking statements” within the meaning of the “safe harbor” provisions of the Private Securities Litigation Reform Act of 1995. Words such as “expect,” “anticipate,” “believe,” “target,” “intend,” “plan,” “will,” “may,” “could,” “should,” and variations of these terms or the negative of these terms and similar expressions are intended to identify forward-looking statements. These statements include, without limitation, statements regarding the expected solar energy generation and efficiency of Aptera’s vehicles, the anticipated daily solar range of those vehicles, Aptera’s targeted 100 watt-hours per mile energy efficiency, the expectation that daily solar generation can power a meaningful portion of everyday driving for owners in sunny climates whose daily mileage falls within the solar contribution, the potential for solar energy to displace fuel or grid electricity in everyday driving, the progress of Aptera’s validation program, the timing of start of production, and the timing of customer deliveries.

Forward-looking statements are based on Aptera’s current expectations and inherently involve significant risks and uncertainties, many of which involve factors or circumstances beyond Aptera’s control. Actual results could differ materially from those stated or implied due to a number of factors, including without limitation: the results described in this release reflect a single validation vehicle tested on three specific days at a single location and may not be representative of vehicles Aptera intends to produce or of performance in other locations, seasons, or weather conditions; solar energy generation varies with irradiance, shading, ambient temperature, vehicle orientation, and parking behavior; individual driving patterns vary and daily solar generation may not cover a given owner’s typical driving; Aptera may not achieve its targeted 100 watt-hours per mile energy efficiency in production vehicles, and range figures derived from that target are estimates rather than measured driving range; the testing described in this release was an on-site witnessing service and does not constitute certification of the vehicle, of any component, or of compliance with any regulatory standard; risks related to design changes between validation vehicles and production vehicles; manufacturing, tooling, supply chain, and supplier performance risks; the need for substantial additional capital to complete development and commence production, and the substantial doubt about Aptera’s ability to continue as a going concern described in its filings with the SEC; potential dilution to existing shareholders from sales of shares under Aptera’s equity line of credit and from other equity financings; regulatory and homologation requirements; competition; and the other risks detailed in Aptera’s filings with the SEC, including the “Risk Factors” sections of its Annual Report on Form 10-K and subsequent Quarterly Reports on Form 10-Q. The forward-looking statements included in this press release represent Aptera’s views as of the date of this press release. Aptera anticipates that subsequent events and developments will cause its views to change. Aptera undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, future events, or otherwise, except as required by law. These forward-looking statements should not be relied upon as representing Aptera’s views as of any date subsequent to the date of this press release.

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