

# Range Rover Electric 2025

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**Range Rover Electric 2025** The Range Rover Electric is set to debut in 2025 as the first all-electric vehicle in the Range Rover lineup. It represents a significant step for Land Rover into the electric vehicle (EV) market, combining the brand's legendary luxury and off-road capability with zero-emission driving. Here's what we know so far:

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## Platform:

- Built on Jaguar Land Rover's **Modular** Longitudinal Architecture (MLA), which is designed to accommodate both electric and internal combustion engine (ICE) vehicles.

## Design:

- Expected to retain the iconic Range Rover design language, with a focus on luxury, refinement, and a commanding presence.
- Aerodynamic enhancements to improve efficiency and range.

## Performance:

- Likely to offer impressive power and torque, consistent with Range Rover's performance heritage.
- Dual-motor all-wheel-drive configuration expected for enhanced off-road capability and on-road performance.

## Range and Charging:

- Targeting a range of over 300 miles (480+ km) on a single charge, depending on driving conditions.
- Support for fast charging, potentially enabling a 10-80% charge in under 30 minutes with compatible chargers.

## Luxury and Technology:

- State-of-the-art interior with premium materials, advanced infotainment, and cutting-edge driver-assistance systems.
- Likely to feature Land Rover's latest PIVI Pro infotainment system with over-the-air updates.

## Off-Road Capability:

- Advanced terrain response systems tailored for electric vehicles.

## Sustainability:

- Emphasis on sustainable materials and manufacturing processes, aligning with Jaguar Land Rover's Reimagine strategy.

## Competition:

- The Range Rover Electric will compete with other luxury electric SUVs like the Mercedes-Benz EQS SUV, BMW IX, Tesla Model X, and RIVIAN R1S.
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## **Development and Engineering**

### **JLR's Electrification Strategy:**

- The Range Rover Electric is part of Jaguar Land Rover's (JLR) broader Reimagine strategy, which aims to make Jaguar an all-electric brand by 2025 and have 60% of Land Rover sales be electric by 2030.
- JLR has invested heavily in EV technology, including battery development, electric drivetrains, and software integration.

### **Battery Technology:**

- The Range Rover Electric is expected to feature a large-capacity battery pack (likely 100 kWh or more) to deliver its targeted 300+ miles of range.
- JLR is working on next-generation battery chemistries, including solid-state batteries, but the 2025 model will likely use advanced lithium-ion technology.

### **Modular Longitudinal Architecture (MLA):**

- The MLA platform is designed to be flexible, supporting hybrid, plug-in hybrid, and fully electric powertrains.
- For the Range Rover Electric, the platform will be optimized for weight distribution, structural rigidity, and off-road durability.

### **Towing and Payload Capacity:**

- Despite being an EV, the Range Rover Electric is expected to maintain strong towing and payload capabilities, consistent with the brand's utility heritage.
- Electric motors provide instant torque, which could make it an excellent vehicle for towing heavy loads.

## **Design and Interior**

### **Exterior Design:**

- The Range Rover Electric will likely retain the brand's signature design elements, such as the floating roof, clamshell hood, and bold grille.
- Expect subtle aerodynamic tweaks, like a smoother front fascia, flush door handles, and underbody panels to improve efficiency.

### **Interior Luxury:**

- The cabin will feature premium materials, including sustainable options like vegan leather and recycled materials.

- Expect a minimalist design with a focus on digital interfaces, including a large touchscreen, digital instrument cluster, and possibly a heads-up display.

### **Advanced Technology:**

- The latest version of JLR's PIVI Pro infotainment system with seamless connectivity, over-the-air updates, and integration with smartphones.
- Enhanced driver-assistance systems, including adaptive cruise control, lane-keeping assist, and semi-autonomous driving capabilities.

### **Customization:**

- Range Rover is known for its bespoke options, and the Electric model will likely offer extensive customization, including interior trims, colors, and tech packages.

### **Performance and Capability**

#### **Powertrain:**

- Dual electric motors (one on each axle) for all-wheel drive, delivering instant torque and precise power distribution.
- Expected output could be in the range of 500-600 horsepower, with a 0-60 mph time of around 4.5 seconds.

#### **Off-Road Capabilities:**

- Electric motors allow for precise control of torque to each wheel, enhancing off-road performance.

#### **Driving Dynamics:**

- The low center of gravity (thanks to the battery pack) will improve handling and stability.

### **Charging and Infrastructure**

#### **Speed:**

- Slower AC charging will also be available for home or destination charging.

#### **Network:**

- JLR may partner with third-party charging networks (like Electrify America or LONITY) to provide seamless access to fast chargers.
- Integration with JLR's app for locating chargers, monitoring charging status, and pre-conditioning the battery.

### **Battery Warranty:**

- Expect a robust battery warranty, likely 8 years or 100,000 miles, to reassure buyers about long-term reliability.
- Market Positioning and Competition

### Target Audience:

- The Range Rover Electric will appeal to luxury SUV buyers who want to transition to electric vehicles without sacrificing performance, luxury, or capability.
- It will also attract environmentally conscious consumers who value sustainability and cutting-edge technology.

### Competitors:

- **Mercedes-Benz EQS SUV:** A tech-heavy luxury electric SUV with a focus on comfort and innovation.
- **BMW iX:** A sporty and futuristic electric SUV with strong performance and range.
- **Tesla Model X:** Known for its tech-forward approach and impressive acceleration.
- **RIVIAN R1S:** A rugged, adventure-focused electric SUV with strong off-road credentials.

### Price:

- The Range Rover Electric will likely start at \$100,000+, positioning it as a premium offering in the luxury EV market.
- Higher trims and customization options could push the price well above \$120,000.

### Sustainability and Environmental Impact

#### Sustainable Manufacturing:

- JLR has committed to reducing its carbon footprint, and the Range Rover Electric will be produced using sustainable practices, including renewable energy in manufacturing facilities.

#### Recycled Materials:

- The interior will feature recycled and eco-friendly materials, such as recycled aluminum, plastics, and vegan leather.

#### End-of-Life Recycling:

- JLR is investing in battery recycling programs to ensure that end-of-life batteries are repurposed or recycled responsibly.

### What We're Still Waiting to Learn

- **Charging Speeds:** Details on maximum charging rates and compatibility with different networks.
- **Off-Road Features:** Specific enhancements for electric off-roading, such as waterproofing and thermal management.

### Technical Specifications and Innovations

### **Battery and Range:**

- The Range Rover Electric is expected to feature a 100-120 kWh battery pack, providing a range of 300-400 miles (480-640 km) on a single charge, depending on driving conditions and trim level.
- Advanced thermal management systems will ensure optimal battery performance in extreme temperatures, whether in hot deserts or cold winters.

### **Electric Motors:**

- Dual permanent-magnet synchronous motors (one on each axle) will deliver all-wheel drive and precise torque vectoring for enhanced performance and off-road capability.

### **Performance Metrics:**

- **0-60 mph:** Estimated at 4.0-4.5 seconds, making it one of the quickest luxury SUVs on the market.
- **Top Speed:** Likely limited to 130-140 mph for efficiency and safety reasons.

### **Regenerative Braking:**

- Advanced regenerative braking systems will allow for one-pedal driving, where lifting off the accelerator slows the vehicle and recaptures energy to recharge the battery.
- Multiple regenerative braking modes will cater to different driving styles and conditions.

### **Weight and Efficiency:**

- Despite the heavy battery pack, the Range Rover Electric will use lightweight materials like aluminum and high-strength steel to keep weight in check.
  - Aerodynamic optimizations, such as active grille shutters and a flat underbody, will improve efficiency and range.
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