THE FUTURE OF
ELECTRIC TRANSPORTATION

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Energy, Environment, and Electrification
General Motors Public Policy
GM’S WORLD VIEW

GM is committed to a future of:

ZERO CRASHES

ZERO EMISSIONS

ZERO CONGESTION

TECHNOLOGY WILL HELP UNLOCK THIS FUTURE
On December 5, 2019, GM and LG Chem announced a new Joint Venture to mass-produce battery cells for Battery Electric Vehicles - “Ultium Cells LLC”

- Total investment of $2.3B on a greenfield manufacturing site in the Lordstown area of Northeast Ohio that will create more than 1,100 new jobs

- Annual capacity of over 30 GWh, with flexibility for expansion

- Site preparation started in May 2020
RECENT GM EV PRODUCT ANNOUNCEMENTS

January: Announced $2.2 B investment at Detroit-Hamtramck assemble plant to produce a portfolio all electric trucks and SUVs, as well as Cruise Origin Autonomous Vehicle

March: Hosted “EV Day” for investors and media to present our future strategy and a portion of our future EV portfolio, including the Cadillac Lyriq and GMC Hummer EV

April: Announcement of agreement to jointly develop two new all-electric vehicles for Honda, based on GM’s flexible global EV platform powered by Ultium batteries

July: GM Sustainability Report provides further details on our future EV portfolio

August 6th: Cadillac Lyriq virtual reveal – 7:00 EDT
GM + EVGO EV CHARGING ANNOUNCEMENT

• Over the next five years, GM will help EVgo add over 2,700 fast charging plugs nationwide

• The chargers are designed to meet the needs of increasingly powerful set of EVs coming to market, with charger power levels of 100 kW – 350 kW

• To drive towards a zero-emission future, all chargers powered by 100% renewal energy

• When complete, EVgo network will be 3x larger than it currently is and the total number of publicly available CCS DCFC will increase by over 50%

• All chargers will be public and available to owners of any make and model that use the CCS or CHAdeMO standards

• GM and EVgo will continue to work with local and federal governments, policy makers, utility companies, and other private investors to help build out charging infrastructure ahead of market demand

PUBLIC CCS FAST CHARGING PLUGS

Source: AFDC
ESTIMATES OF BEV MARKET GROWTH VARY WIDELY
MARKET ACCELERATION EXPECTED BETWEEN 2025 AND 2030

2025

- BCG
- Boston U./Cal
- Citigroup
- IHS
- LMC
- McKinsey
- Morgan Stanley
- Navigant

AVG. 1.3M ~8%

2030

- BCG
- Boston U./Cal
- Citigroup
- IHS
- LMC
- McKinsey
- Morgan Stanley
- Navigant

AVG. 3.0M ~17%

*Labels rounded to nearest 100K
REQUIREMENTS FOR BROADER EV ADOPTION

• Affordability
• Longer range
• Charging Infrastructure
  • Residential
  • Workplace
  • Public
• Performance & Utility
A WIDE VARIETY OF BEVS ARE COMING TO THE MARKET

Customers currently want over 300 miles of range.
By 2024, most new entries will have 250+ miles of range.

US EV Entry Count

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**Infrastructure**

- Workplace charging
- Multi-unit dwelling charging
- Public charging at **key destinations and along travel corridors**

**Policy**

- **Improve EV affordability and reward consumers**
  - Simple, reliable, and compelling vehicle purchase incentives
  - Ownership perks such as HOV lane access privileges or preferential parking
  - Preferential EV rates
- **Accelerate demand with commercial and government fleet purchase requirements**
- **Harness the power of markets** with LCFS-style policies