



Nevada New Energy Industry Task Force Technical Advisory Committee Presentation

May 2016



STORAGE SUPPORTS THE TASK FORCE'S GOALS

- Encourage development of clean energy sources and integrate renewable technologies into Nevada's energy sector
- 2. Foster the creation of a modern, resilient, and cost-effective energy grid
- Support distributed generation and storage, with a specific focus on rooftop solar and net metering



ENERGY STORAGE USES





PEAK SHAVING



CAPACITY FIRMING



LOAD SHIFTING



TRANSMISSION
& DISTRIBUTION SUPPORT



DEMAND RESPONSE



SELF CONSUMPTION



EMERGENCY BACKUP



MICROGRID



ANCILLARY SERVICES





RESIDENTAL INSTALLATION





COMMERCIAL BUILDING INSTALLATION



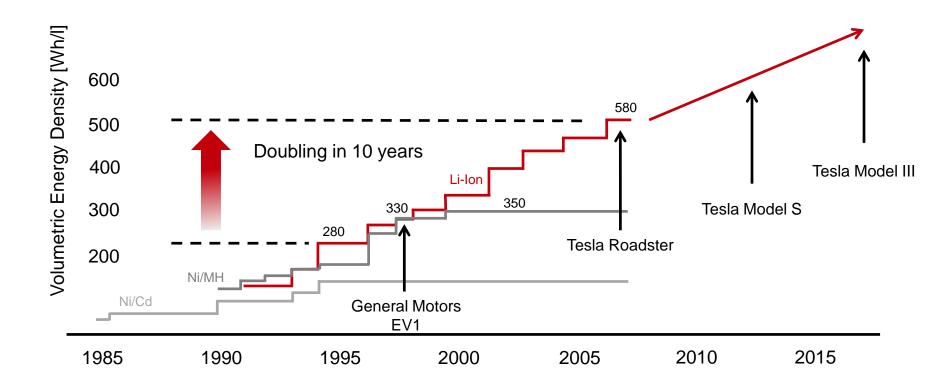


UTILITY-SCALE INSTALLATION



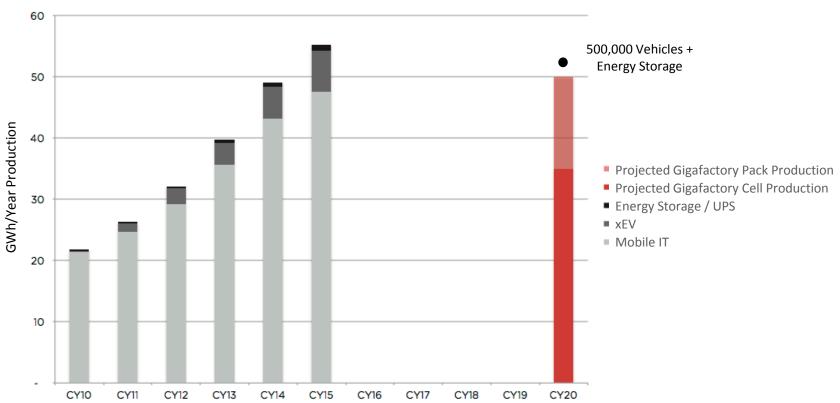


BATTERY CELL ENERGY DENSITY TREND





GLOBAL BATTERY CELL MARKET



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GIGAFACTORY



BARRIERS TO STORAGE DEPLOYMENT

Many utility processes and tariffs must be updated to accommodate storage:

- Planning (Generation, Transmission, & Distribution)
- Valuation
- Procurement
- Operations
- Rate design
- Interconnection

The first energy storage projects in a region have higher development costs because significant utility learning is required



LEARN BY DOING

The best way to uncover which detailed processes and tariff language must be updated is to proactively deploy commercial energy storage projects at all points of the grid:

- Customer-connected
- Distribution-connected
- Transmission-connected







