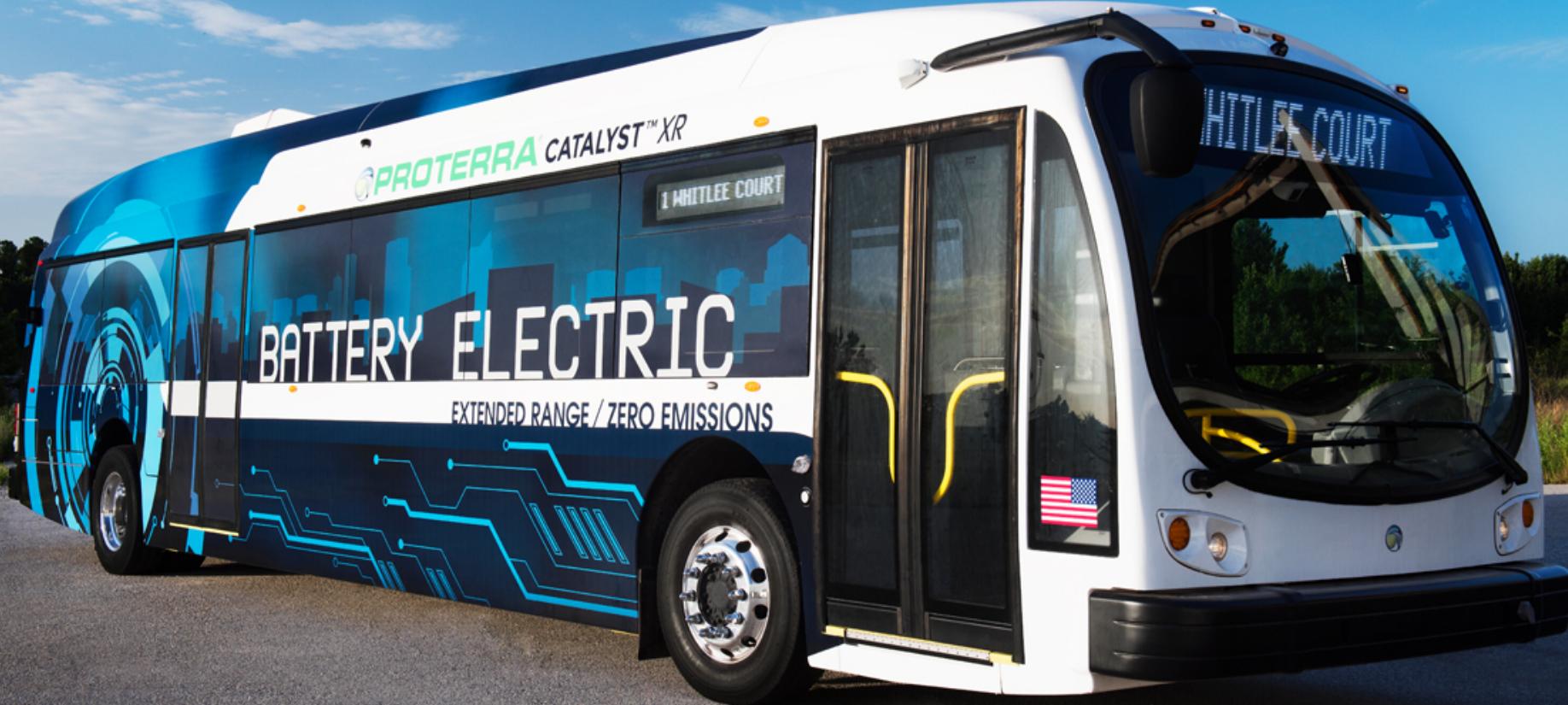
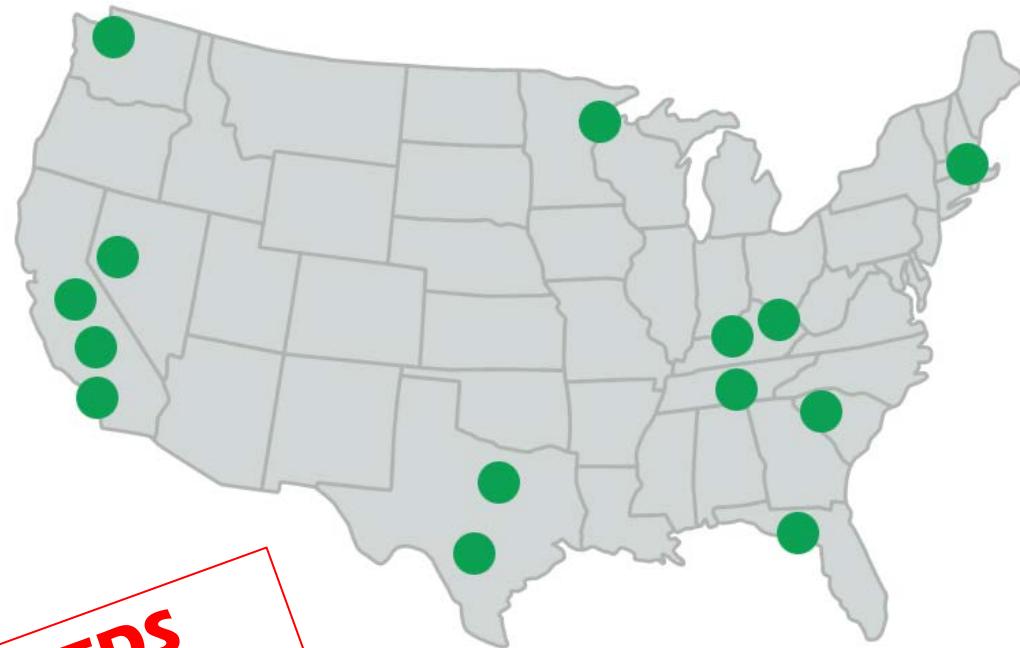


Ryan Popple (@rcpopple)
CEO of Proterra (@Proterra_Inc)



Proterra® Catalyst™ EV Transit Bus Record Breaking (Accel, Climb, Efficiency, Weight)

This is Happening:



NEEDS
UPDATING

U.S. EV Transit Deployments already exceed all previous Zero Emission Transit programs.

DEPLOYMENTS NATIONWIDE – HOT & COLD WEATHER



Foothill Transit



NEEDS
UPDATING



15 U.S.
CITIES

4 MILLION LBS.
EMISSIONS
ELIMINATED

1.5M REVENUE
MILES

SMART CITIES ARE DEVELOPING EV PROGRAMS **NOW**



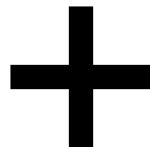
CUSTOMER REQUESTED DEMOS



Silver Springs, MD	Santa Cruz, CA
Largo, MD	Visalia, CA
Washington, DC	Santa Barbara, CA
Baltimore, MD	Montebello, CA
Philadelphia, PA	Culver City, CA
Albany, NY	Santa Clarita, CA
Boston, MA	San Bernardino, CA
Worcester, MA	San Diego, CA
Amherst, MA	Palm Springs, CA
Hartford, CT	Las Vegas, NV
Salt Lake City, UT	Los Angeles, CA
Pomona, CA	Orange, CA
Portland, OR	
Eugene, OR	
Sacramento, CA	
Stockton, CA	
Oakland, CA	
Modesto, CA	
San Jose, CA	

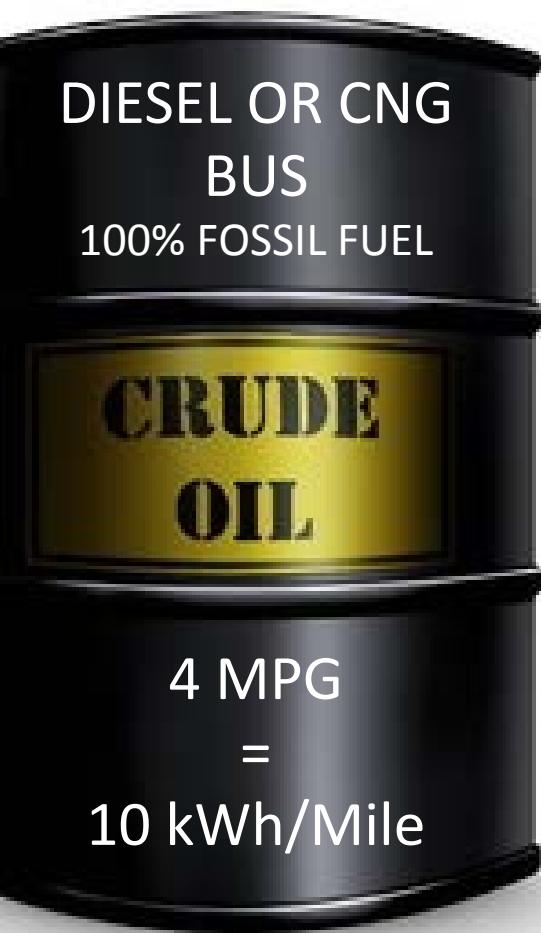
Bremerton, WA
Spokane, WA
Richland, WA
Reno, NV
Missoula, MT
Roaring Fork, CO
Vail, CO
Steamboat Springs, CO
Denver, CO
Houston, TX
San Antonio, TX
Austin, TX
Fort Worth, TX
Dallas, TX
Orlando, FL
Tallahassee, FL
Atlanta, GA
Greenville, SC
Charlotte, NC

ECONOMIC & SUSTAINABLE



■ ■ Lowest Cost, Lowest Environmental
■ ■ Impact for Urban Transportation

ENERGY EFFICIENCY GAINS AND CLIMATE BENEFITS



86%

88%

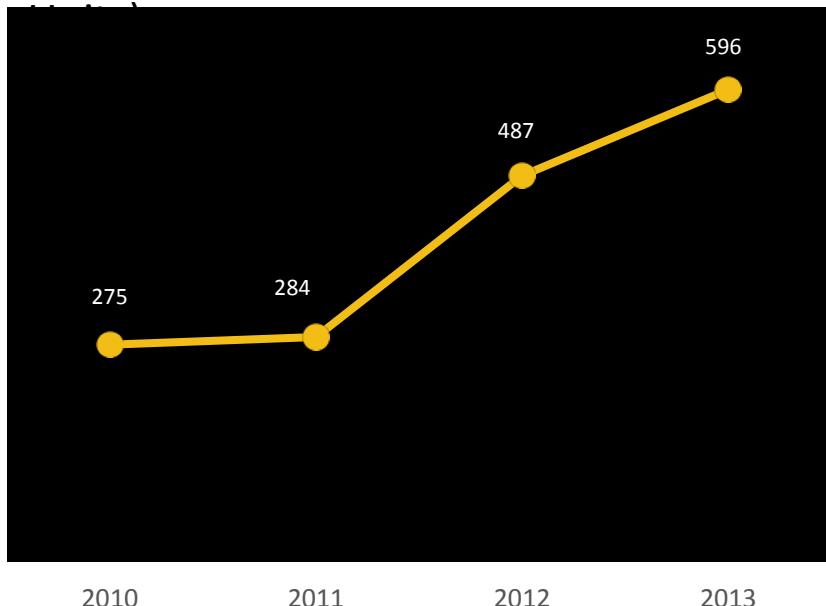
90%

Net Fossil Fuel Reduction

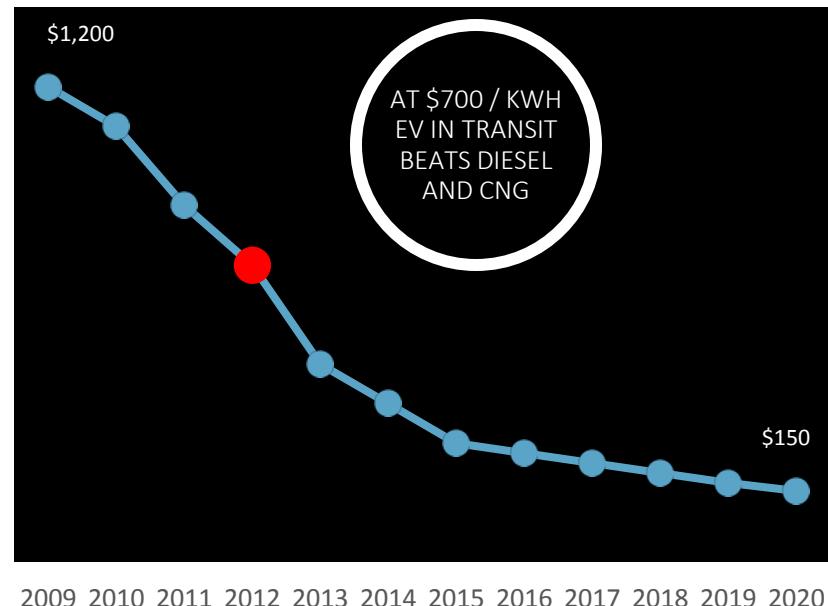
EV MARKET PROVIDED THE SCALE AND COST REDUCTIONS



U.S. HYBRID & EV SALES (000s)



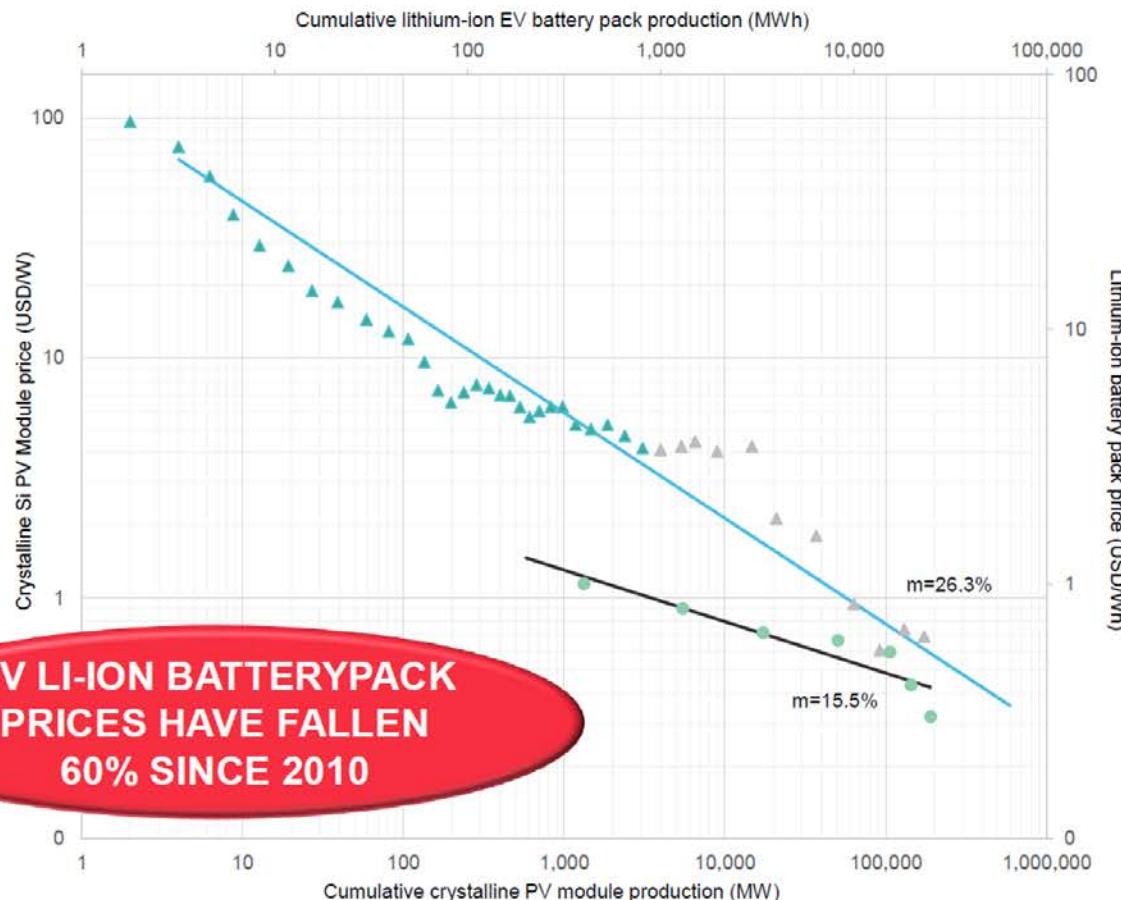
BATTERY PACK COST (\$/kWh)



ADVANCED BATTERY TECHNOLOGY HAS DECLINED IN COST TO THE POINT OF DISRUPTION IN THE TRANSIT MARKET

EV LITHIUM-ION BATTERY PACKS & CRYSTYALLINE SI PV MODULES: HISTORICAL COST REDUCTIONS

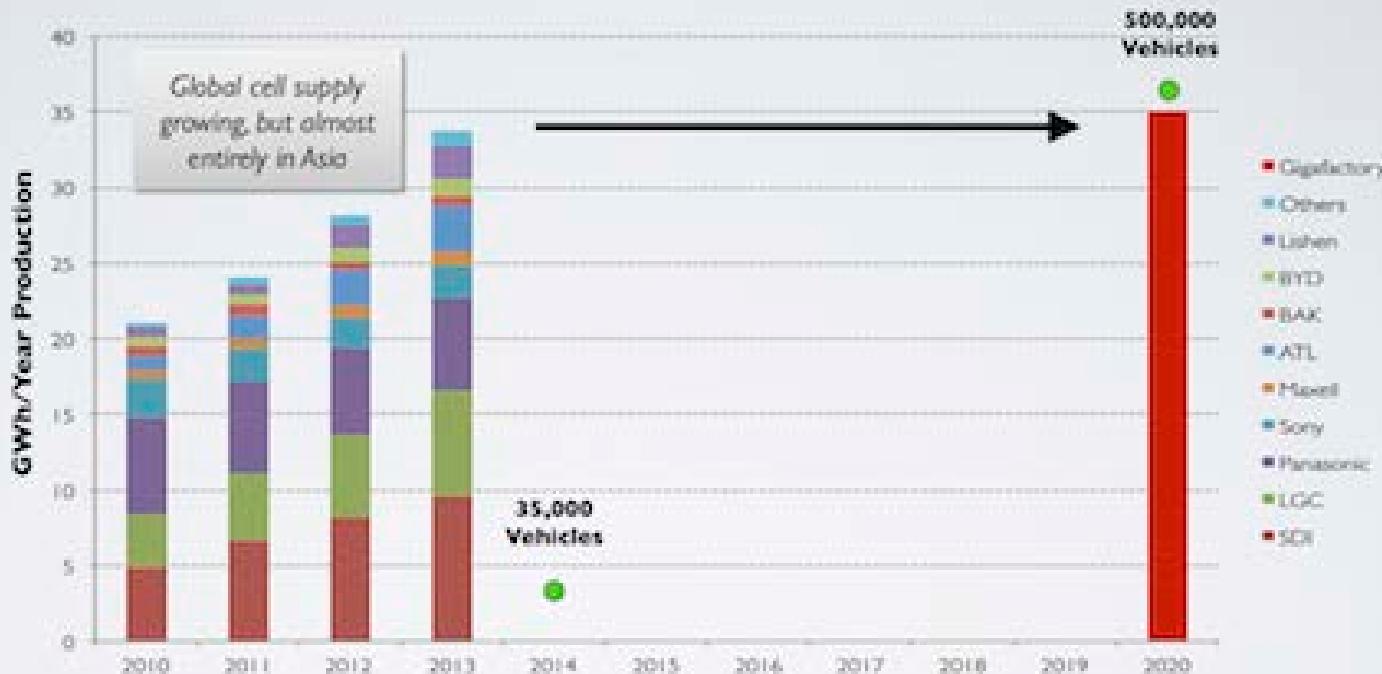
Bloomberg
NEW ENERGY FINANCE



Note: Values from 2010-2014 are based on BNEF's annual battery price index, *2015 based on H1 data. For more see here: <https://www.bnef.com/Insight/10299>. Cumulative production is based on total EVs sold and their respective battery pack size.

Bloomberg New Energy Finance

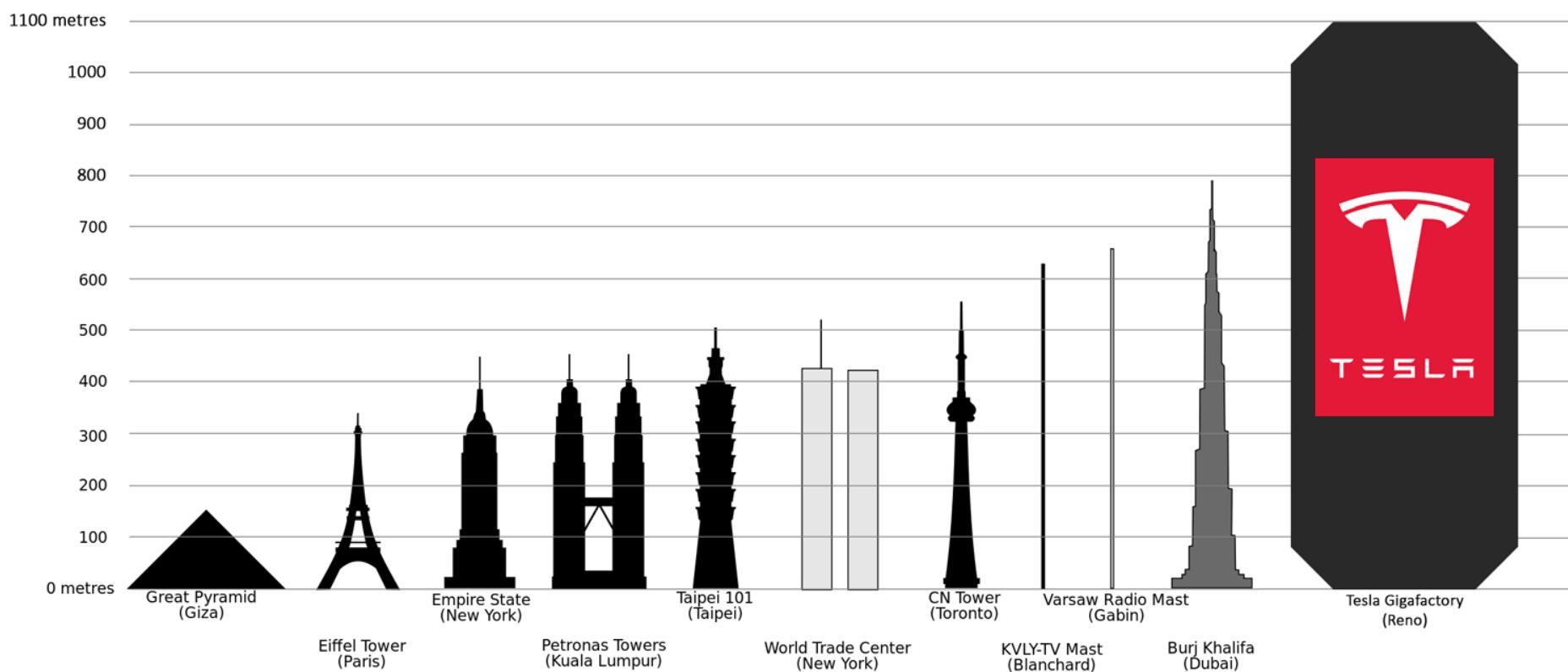
Planned 2020 Gigafactory Production Exceeds 2013 Global Production



Battery pack cost/kWh reduced >30% by Gen III volume ramp in 2017

Source: IIT Takemoto 2013

BATTERY FORECAST - THE TESLA GIGAFACTORY

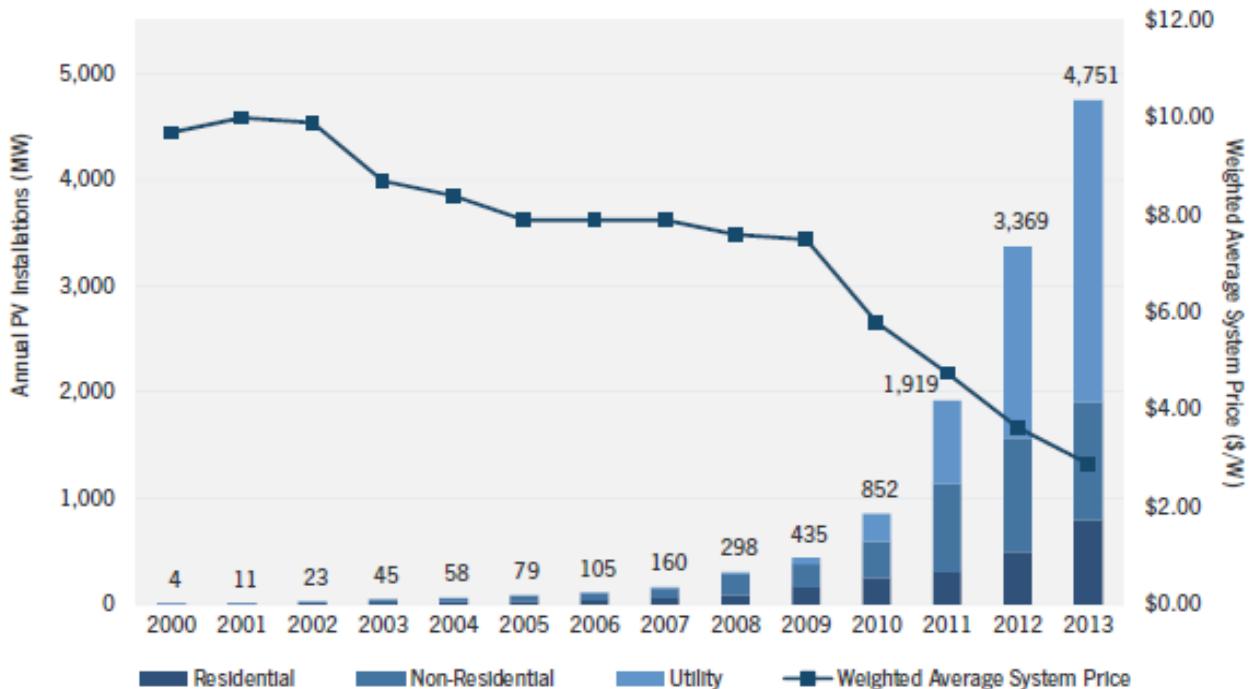


WE'VE SEEN THIS MOVIE BEFORE



SOLAR INDUSTRY ANALOG

Cost Reduction and Scale Lead to Massive Adoption

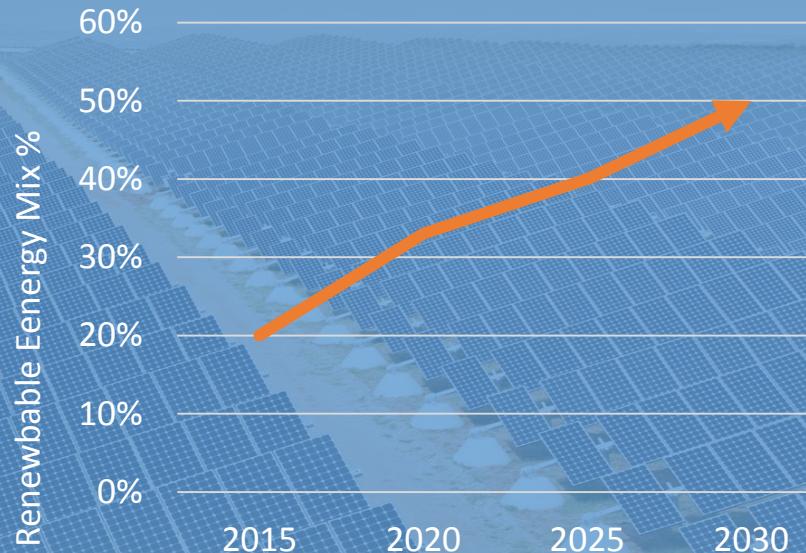


•-----> SOLAR REMAINED NICHE UNTIL ACHIEVING ATTRACTIVE USER ECONOMICS, THEN 10X GROWTH

Sources: GTM Research / SEIA and Lawrence Berkeley National Laboratory



California RPS Projection (SB350)



This is where your electricity will come from.



**In 2014, a new solar energy system
was installed every 2.5 minutes in the US.**

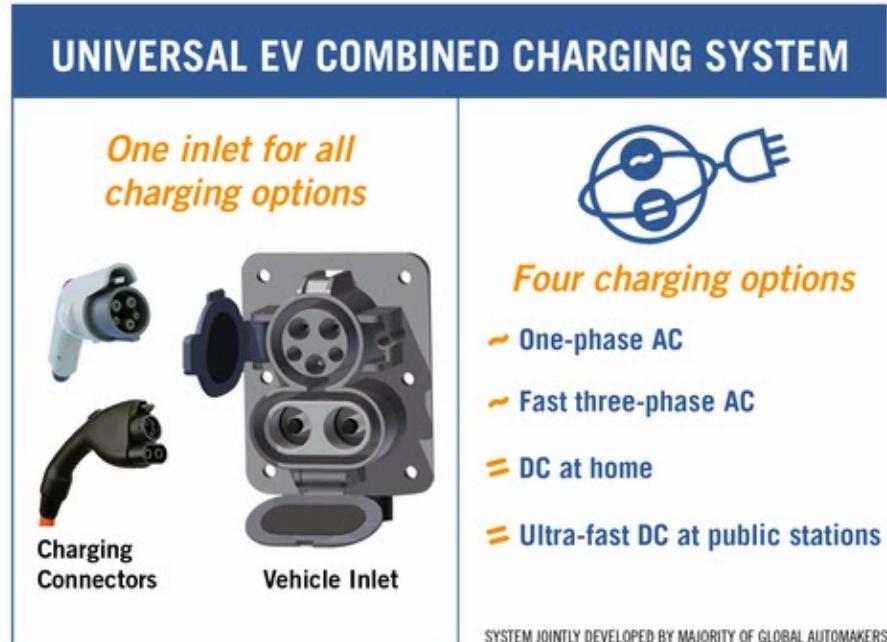
Standards & Infrastructure

Where standards exist, don't reinvent the wheel to attempt "network effects" – i.e. plug-in charging

We don't need Light Duty Vehicle Chargers and Heavy Duty Vehicle Chargers. We need Low Power, Medium Power and High Power Chargers. Vehicle category is an irrelevant distinction and one that will fragment the market.

J1772CCS is the High Power Charging Standard for U.S. Electric Vehicles. CCS can supply sufficient power for Heavy Duty depot charging.

Multiple Light Duty OEMs already funding CCS networks and equipment scale. Scale = reduced cost and high quality.



SYSTEM JOINTLY DEVELOPED BY MAJORITY OF GLOBAL AUTOMAKERS

