

# Visionary bulk buys in Texas created electric car market VW settlement \$ can do the same for HD vehicles



In 2005 a number of publicly owned electric utilities realized their sales were declining with more efficient appliances and houses.

They began to look for ways to increase electric sales-and began to look at electric vehicles

They put together 13,000 soft orders and 5 years later the Volt was on the street. 3

**Today there are 18 companies making 38 models of electric cars**

- By 2022 Ford Motor Company will roll out 16 fully electric cars within five years, the first of which would arrive in 2020.
- GM has said it plans to roll out at least 20 new electric cars by 2023
- There are 7 electric HD trucks and 8 models that have been announced



**Let's set aside \$100 million to pull new zero emissions technologies into the market in 5 years**

## By 2030 More Electric vehicles will sold than ICEs



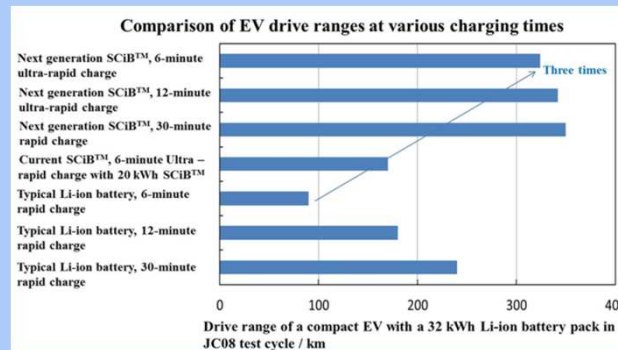
- Electric vehicles (EVs) will cost less than internal combustion engines (ICEs) between 2022 and 2025.
- The **majority** of vehicles sold in the U.S. by 2029-2040 will be electric vehicles (EV)
- **6.2 million electric vehicles will be sold annually in Texas in 2033 and 21.3 million electrified vehicles will be on the road by 2033 in Texas.**
- **10.5 million autonomous vehicles will be on the road by 2035 in Texas**

# Will Electric Vehicles be Built in Texas ?

Will GM Beat Tesla To Market For An Electric Pickup Truck? Will Toyota play?



- Manufacturers such as Toyota, GM, and Peterbilt have manufacturing already located in Texas. A sufficient number of bulk orders could induce them to begin manufacturing electric versions of their heavy duty vehicles in Texas.
- Electric vehicle components are already being manufactured here:
  - electric motors and batteries by Toshiba and Actacell
  - KLD systems controllers,
  - variable speed transmissions by Turbo-Track-Systems.



# Using VW funds as an investment can create a market for new electric technologies, create local jobs and reduce ozone by 75%



**Set aside \$100 million for five years and fund new Texas manufactured zero emissions technology**

**10,000 vehicles at \$10,000 per incentive**

**For examples:**

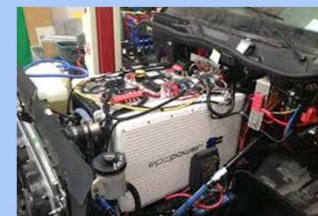
**Autonomous electric passenger shuttles or delivery trucks**

Why not build "Last Mile" shuttles here?  
Or delivery vehicles on similar chassis

**Batteries**

- Goodenough II
- Toshiba vehicle batteries made in Houston

**Electric vehicles engines at Toyota, GM or Peterbilt**



# Texans Working Together Have Made Big Things Happen

## Together we can Create New Transportation Options



### We created the nation's largest renewable energy boom and reduced electricity costs

Texas now leads the nation in wind production



- More than 21,000 MW of wind
- Wind Industry Employment: 22,000
- Wind Manufacturing Facilities: 40

### Solar is expected to grow

- from 14,500 megawatts (MW) to 28,100 MW by 2031



Data AWEA Texas state facts  
ERCOT LTSA Dec 2016

### We created the Texas Emissions Reduction Program and reduced diesel pollution

- Spent of \$1 billion
- Replaced 17,692 old dirty diesels
- Reduced 171,945 tons of NOx
- At a fraction of the cost of adding top of the stack emissions controls at industrial facilities



Biannual TERP report  
[https://www.tceq.texas.gov/assets/public/comm\\_exe/pubs/sfr/079-16.pdf](https://www.tceq.texas.gov/assets/public/comm_exe/pubs/sfr/079-16.pdf)

# Together We Can:



- Create a vision for a cleaner future
- Make big emissions reductions
- Set tough but attainable goals for using VW funds
- Set tougher 5 year goals
- Do bulk buys to reduce costs
- Work to lure new manufacturers and create jobs to Texas