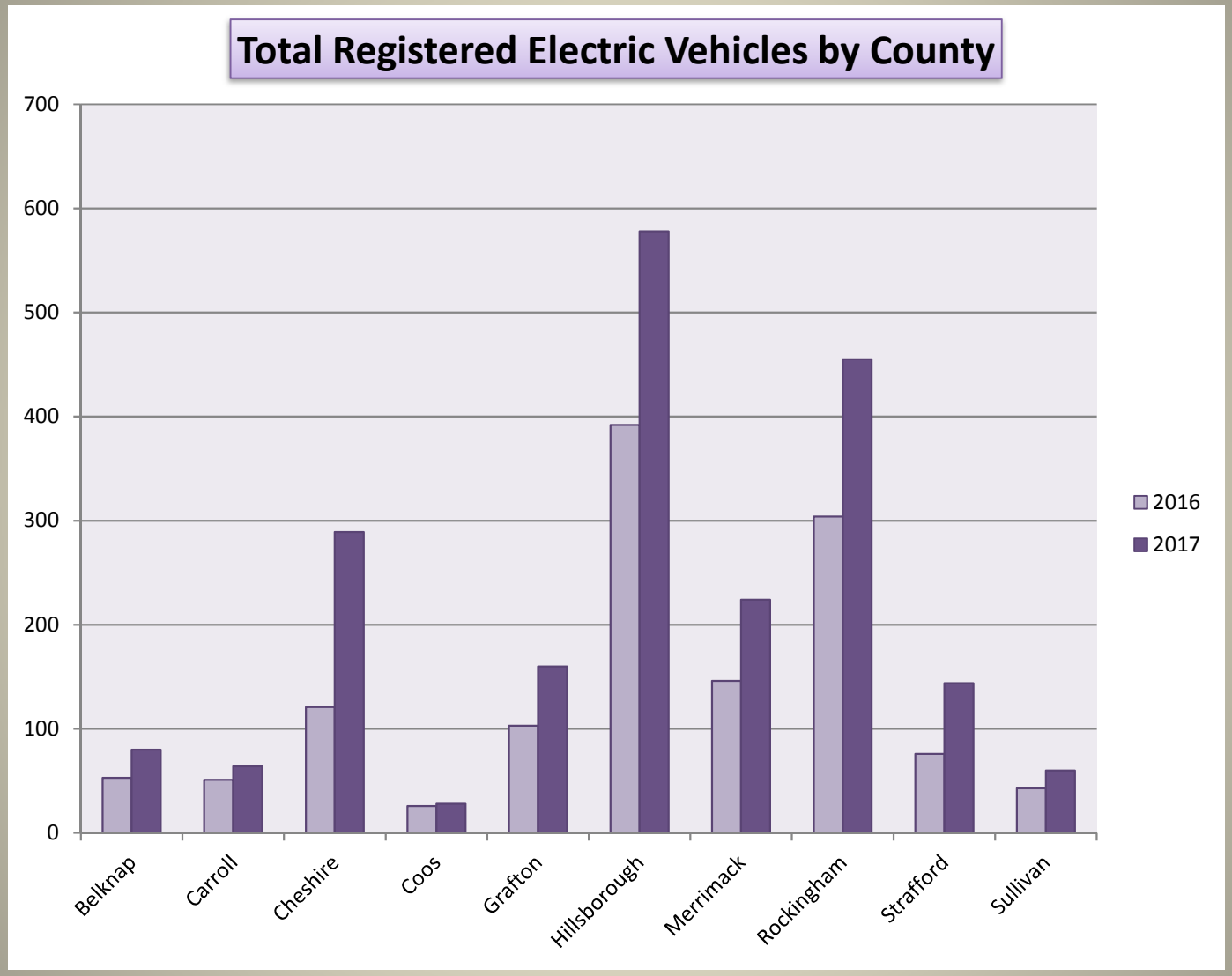
# The Future of EV Charging in NH Towns


Total Registered Electric Vehicles by County
700
600
500
400
300
200
100
0
Belknap
Carroll
Cheshire
Coos
Grafton
Hillsborough
Merrimack
Rockingham
Strafford
Sullivan
2016
2017

SE2

2007 $1000/kW-h

2017 < $200/kW-h

Decrease in battery price

+ Increase in miles per charge

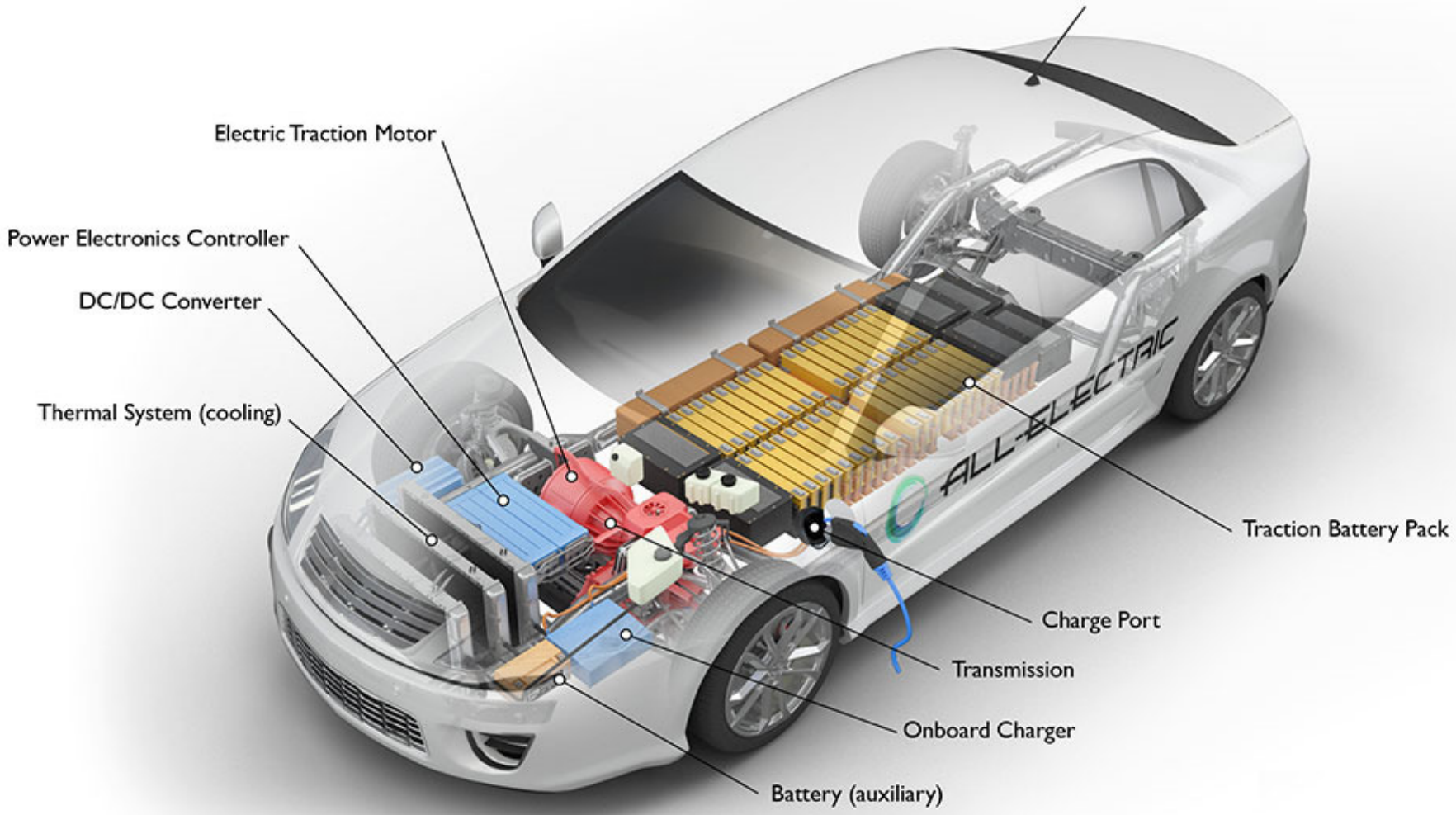
= Convenient and Affordable

**Slide 3**

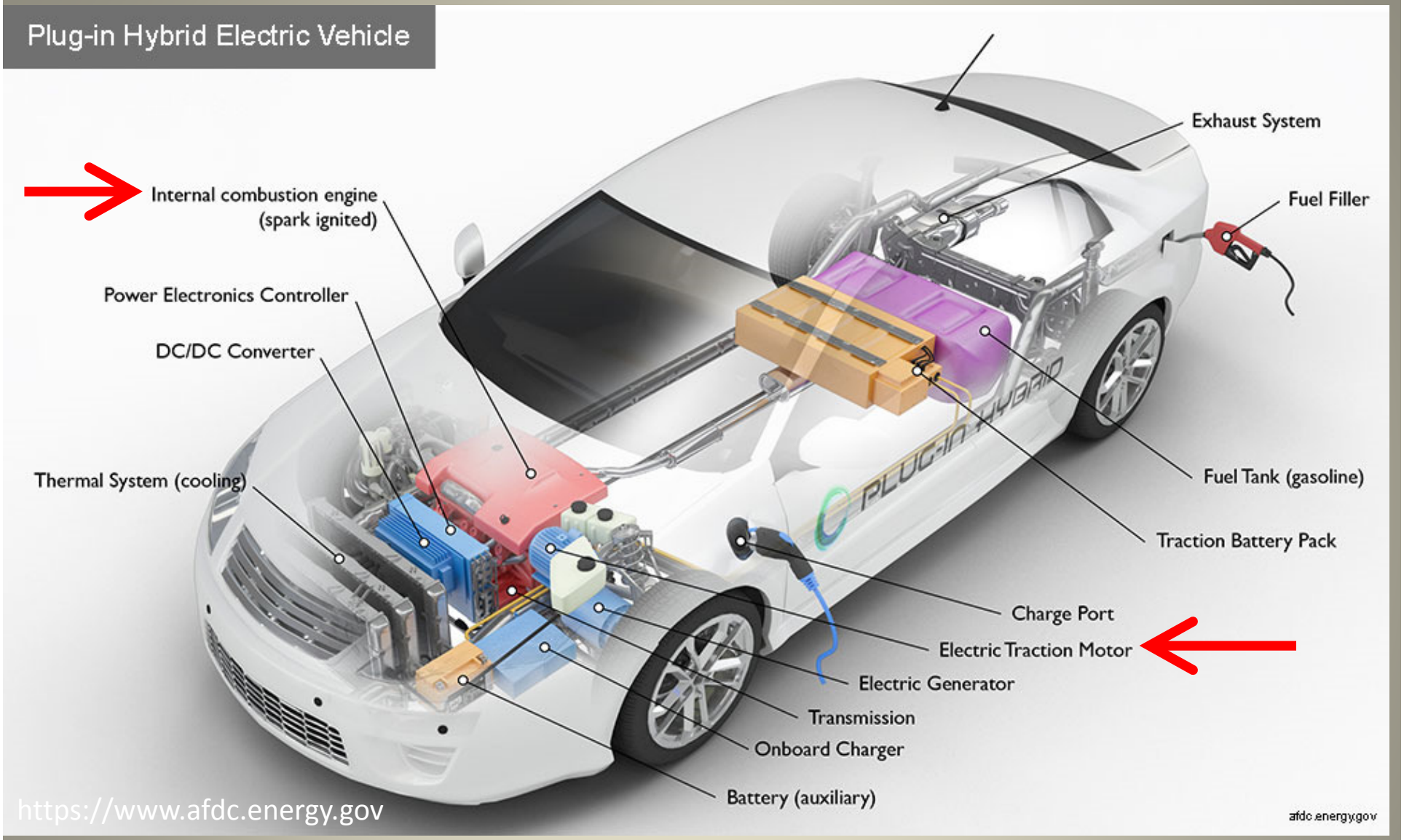
**SE2** wanted to have a photo of a battery from 2007 and a current battery to show the change in size as well as cost, but I cna't find any free photos. Let me wodk on finding something and maybe we will just need to reference the website we get it from

Strachan, Elizabeth, 12/1/2017

# All-Electric Vehicle




www.afdc.energy.gov




**15-25 miles just on electric**

**Over 50 miles per gallon**

**Conventional engine for longer trips**

SE1

# Types of charging stations

**Level 1 Charging**

Level 1 Charging - Standard House Outlet

2-5 miles/hour of charging,
or 22 hours for full charge

**Level 2 Charging**

ChargePoint/Coulomb Level 2 Charging Station

10-20 miles/hour of charging
Cost: $1,000 - $20,000

60-80 miles/hour of charging
Cost: $25,000 - > $100,000

**DC Fast Charging**

Blink DC Fast Charge Station
photo by ECOtality

**Slide 6**

**SE1** check these charging numbers with the ones in report, which are more accurate.  This slide is from soemthing Becky put togethe
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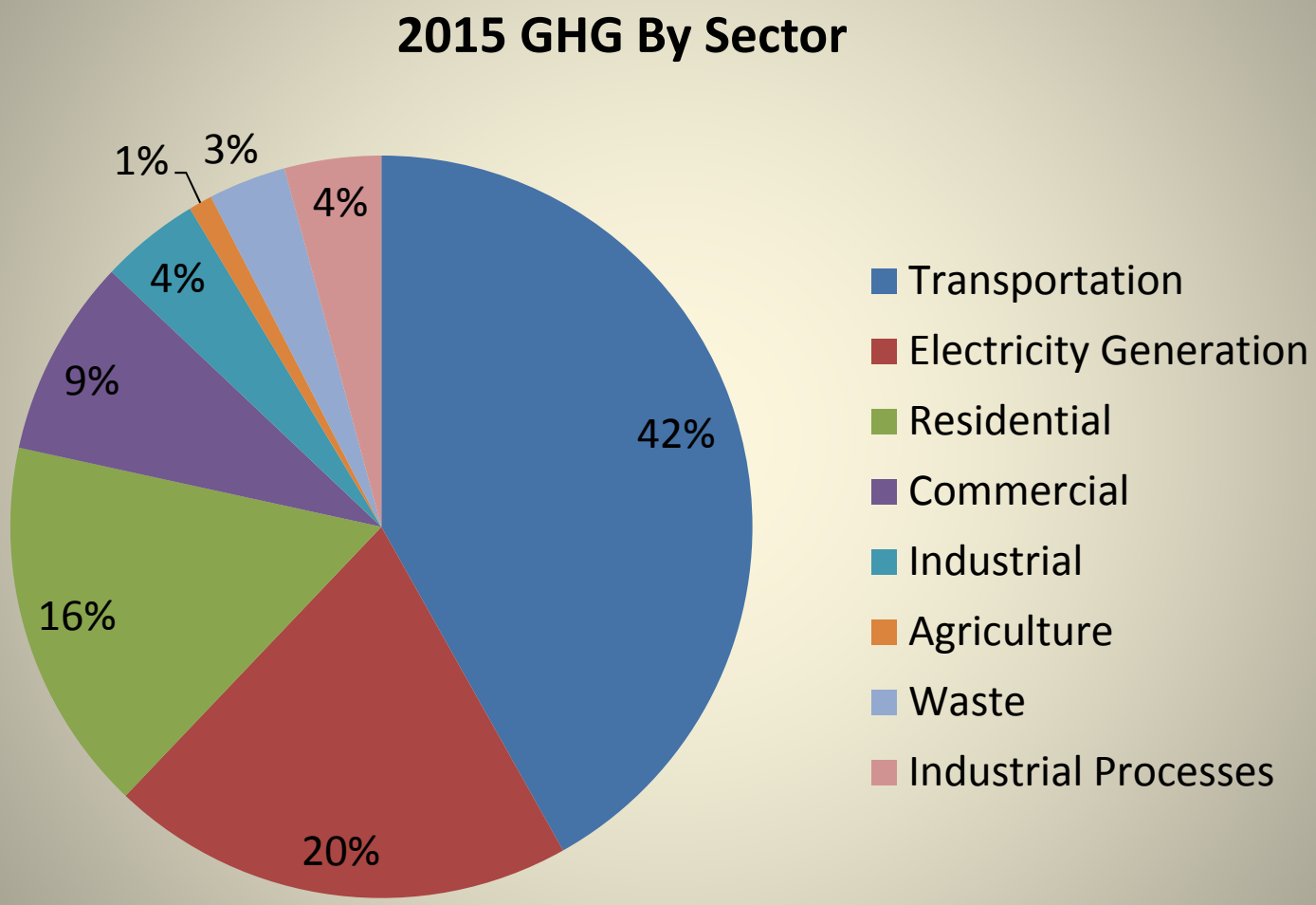
# How to Charge for Charging?

# NH Sources of Greenhouse Gas Emissions




Source: 2015 NH GHG Emissions Inventory (DRAFT)

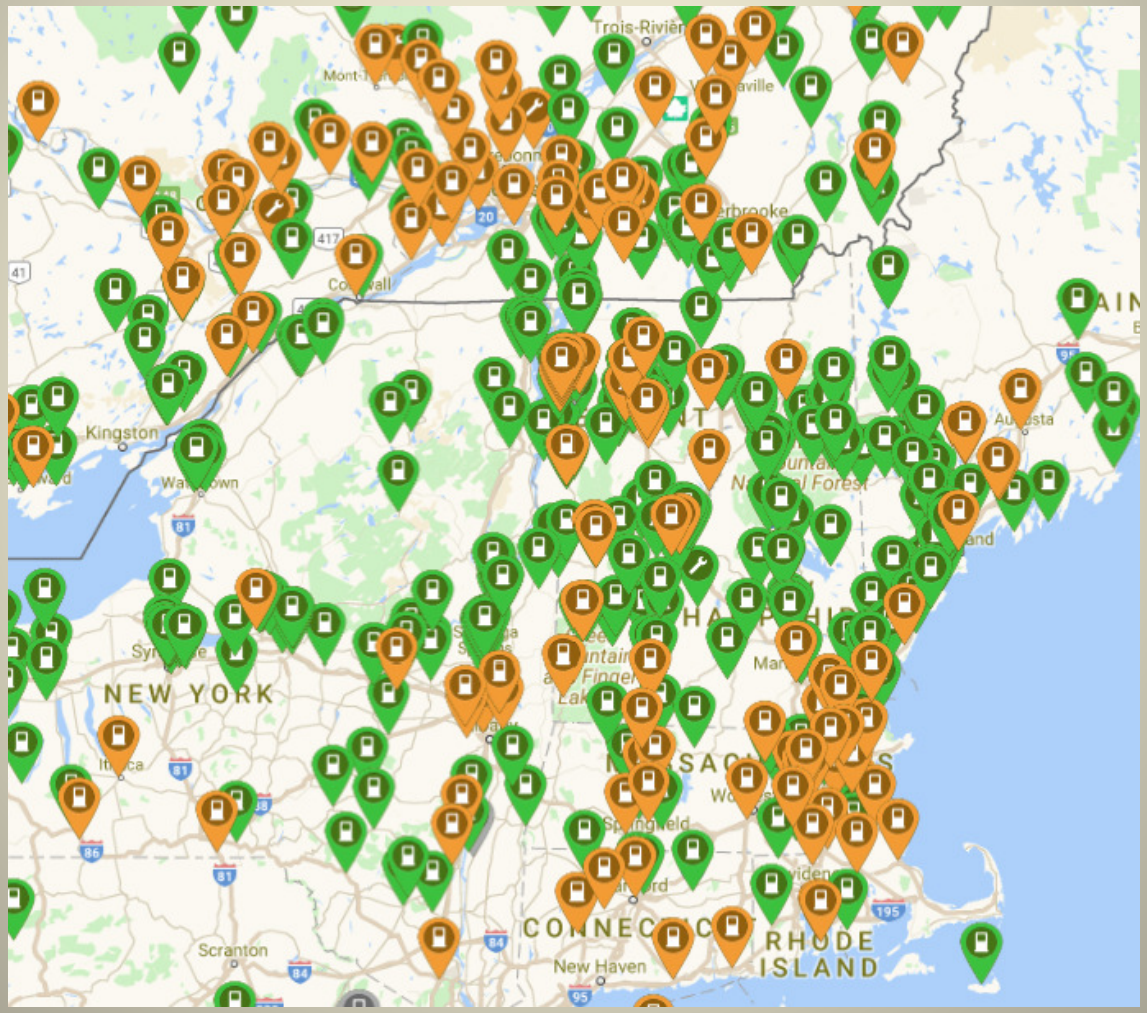
# Automakers are Listening!

Mercedes-Benz

# EV Infrastructure in New England

**Level 2 in Green DC Fast in Brown**

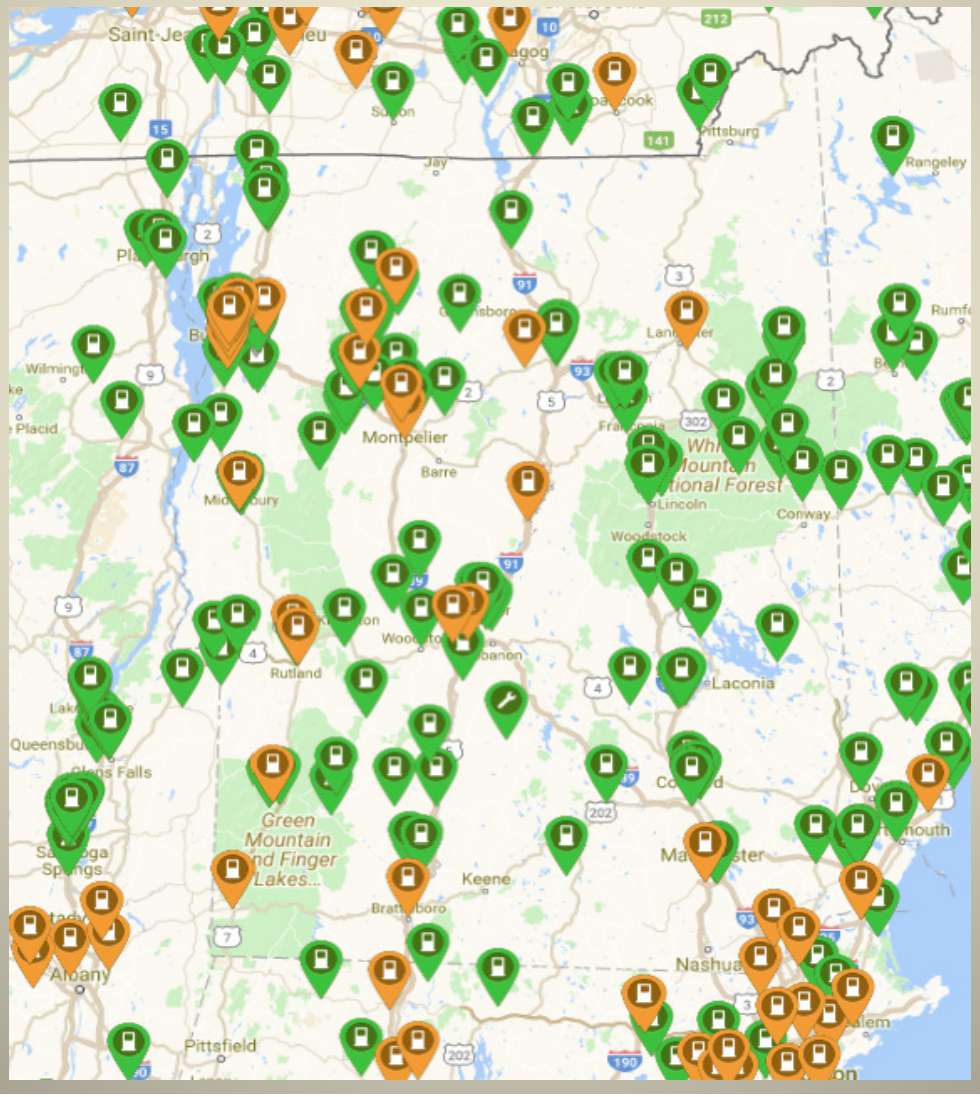
**Does not include Tesla**



# EV Infrastructure in New Hampshire

**Level 2 in Green DC Fast in Brown**

**Does not include Tesla**



SE3

# Municipal Fleets

**Slide 12**

**SE3** states around us - ZEV mandate states?  somehting.
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# Parking Lots and Garages

# School Districts

# Workplace Charging

# Promote EVs in the planning processes!

- Parking incentives/tax credits
- Zoning/Building Codes

# Encourage Builders to Invest

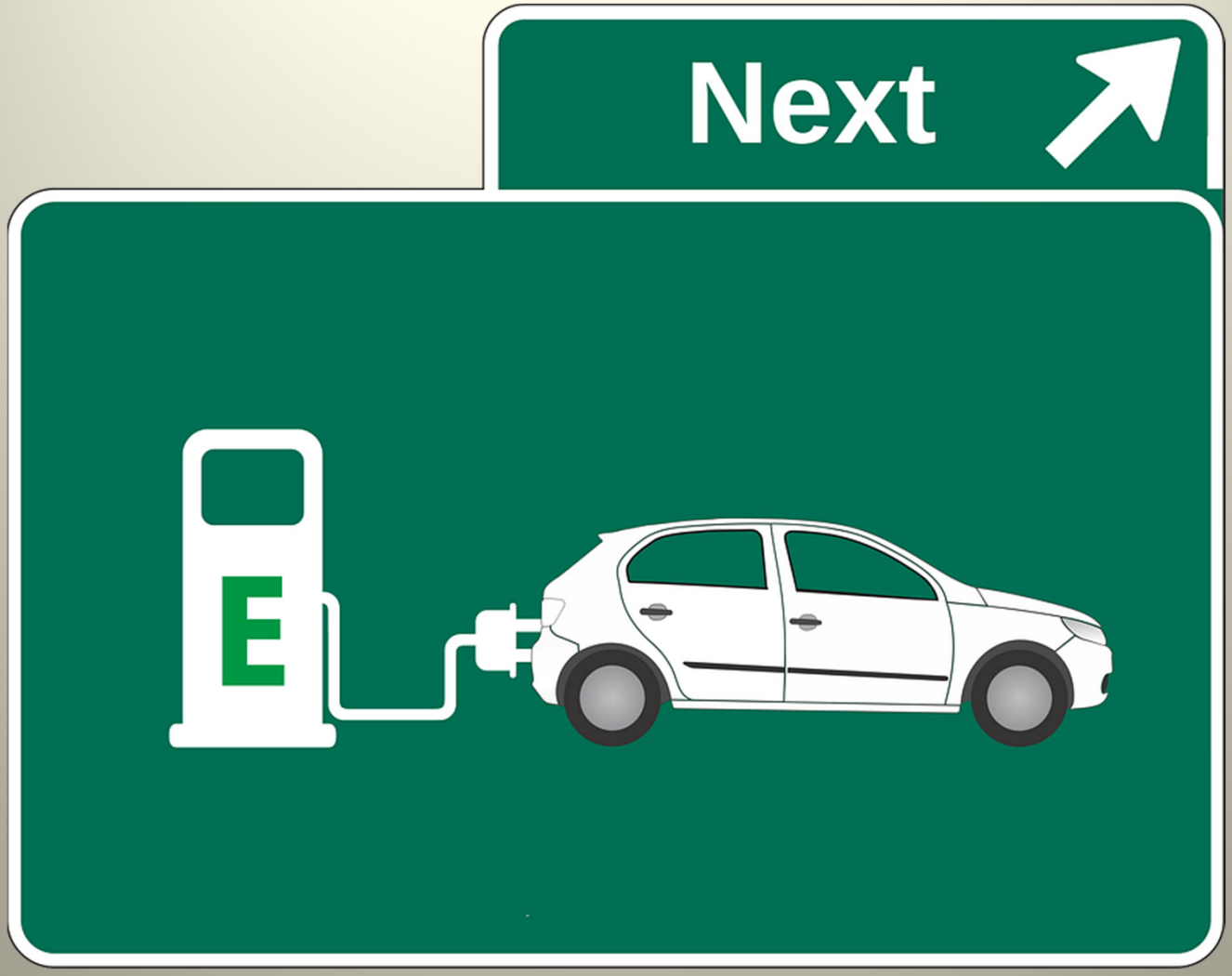
**Installation of electric conduits is easier and less expensive during initial construction**

# Become an EV Hotspot

# Pettee Brook Municipal Parking Lot
# In 2 Years: 61 drivers from 44 zip codes

# Hanover Parking Garage
# ~70% increase in usage!

# New Hampshire Department of Environmental Services leads by example!

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