



### **Coulomb** The business of Charging





- Coulomb's mission is to ensure people don't hesitate to buy electric because of fueling concerns
- We realize our mission by providing a toolkit of everything a company needs to offer charging services to drivers
- We are a business model company our toolkit gives station owners what they need to maximize revenue and minimize cost
- We do that by offering cloud services and charging station hardware products



## The State of EVSE Networking

• What people are getting from it today

- Real time station status no use searching for stations that might be in use
- Reservations Not many station owners have enabled it
- Billing by KWH, time, or session
- Authentication keeping your neighbor from charging
- Record-keeping providing data to station owners, governments, and drivers
- Reliability providing station owners and drivers knowledge of broken stations
- Utilization tells station owners when they need more charging spaces
- Driver notifications when cars are charged up, when they're interrupted, when you forgot to plug in
- What is just starting to be used
  - Demand Response
  - TOU Price signaling
  - Employee compensation measurement

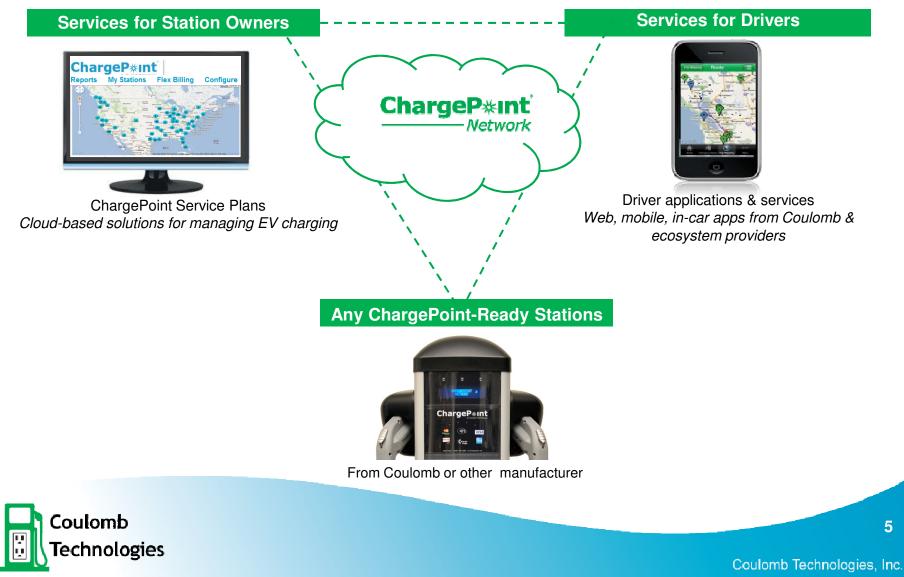


# Charging Service Models

Business	Cost Plan	Value Prop
Workplace	Subsidized	\$550/year to retain an employee
Workplace	Paid	Employee pays \$2 a day
City	Cost recovery	Resident pays \$1 a charge
Apartment building	Vending Machine	6 year payback, then \$1000 a year income
Pure service provider	Subscription business	\$60/month, 6 year payback
Hotel	Amenity	\$550/year to attract guests
Retail	Amenity	\$1 subsidy to bring in a customer



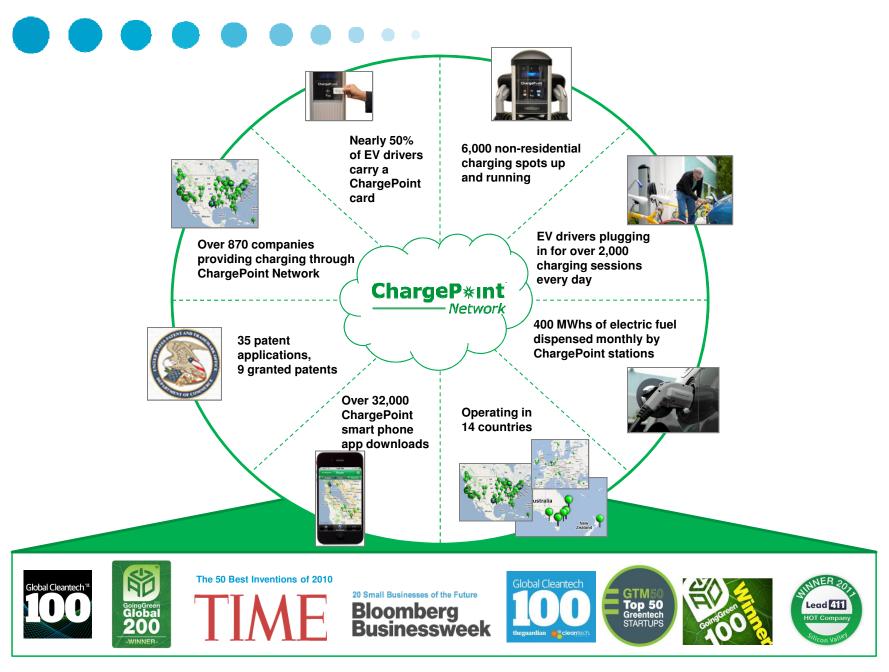
## ChargePoint Open Network Solution



## Over 870 Companies Providing EV Charging via ChargePoint Network

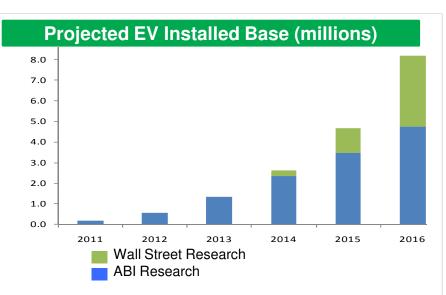


### ChargePoint Network: Open Charging Network Leader

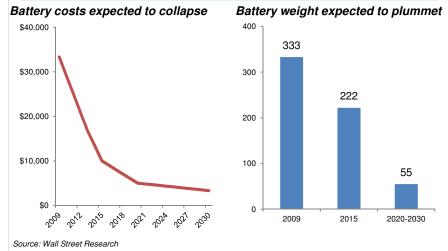


## Market Forces are Driving EV Adoption

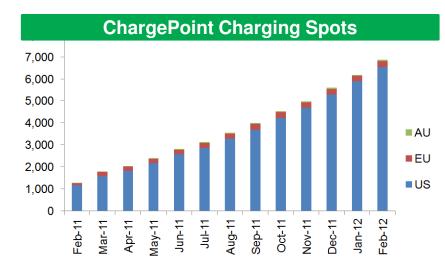


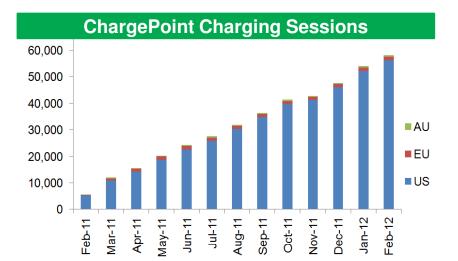


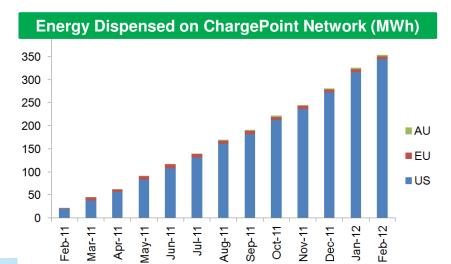
#### **Battery Technology Roadmap**



### First Mover Advantage in Establishing Network









### Coulomb Go To Market Strategy

#### 8 market segments

#### Motivations vary by segment

- Attract customers
- Attract tenants
- Pay charging
- Economic development
- Employee amenity
- Fleet optimization
- Convenience

#### 4 channel approaches

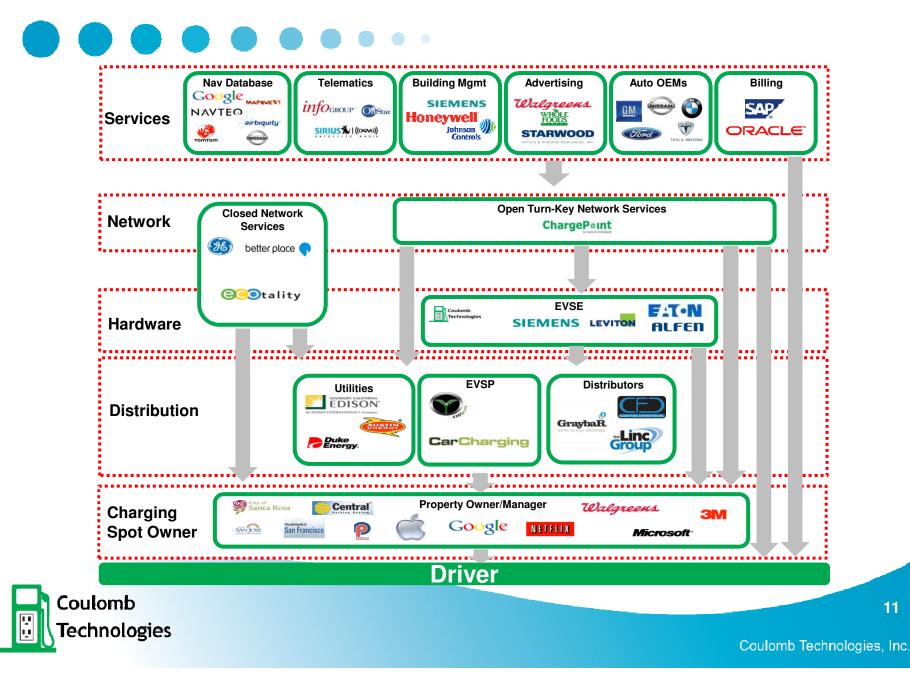




Coulomb Technologies, Inc.

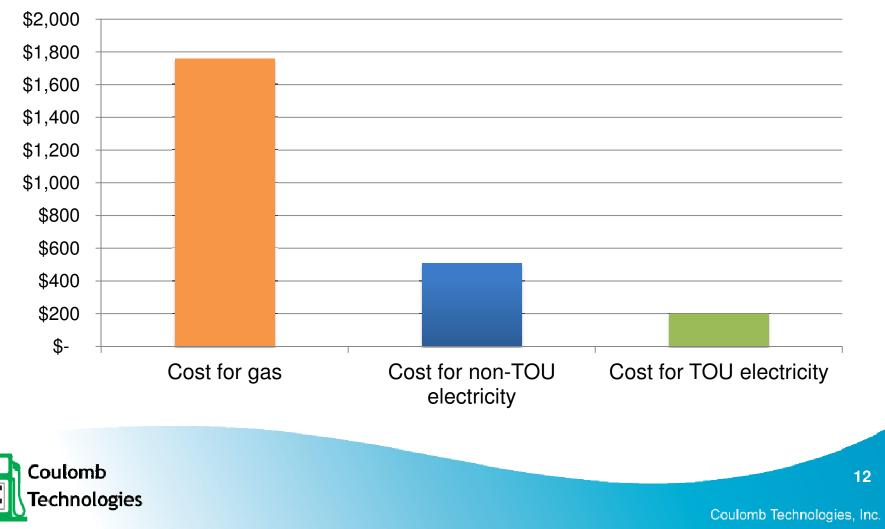
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### **Open Network Enables EV Charging Ecosystem**



### Smart Charging Saves You Money

#### **Annual Fuel Costs**



## Charging Stations

- Standard features:
  - Embedded on-board computer
  - Communications subsystem
  - Display
  - Standards-based RFID reader
  - Utility-grade power meter
- Minimize on-site maintenance with support of:
  - Over-the-air firmware upgrades
  - Remote real-time alarm monitoring
  - Remote diagnostics & servicing
- Enable the flow of power to be controlled in accordance with grid load
- Mature: First stations installed in 2008
- *Proven:* 5,300 non-residential charging spots up & running
- *Open:* ChargePoint service plans also work with stations from other manufacturers





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## Provide Convenient Electric Fuel Beyond the Depot

- Allow driver to roam from city to city
  - Regardless of charging 0 service or Utility provider
- Choose access options
  - Major credit card
  - ChargePass<sup>™</sup> card
  - 24/7 toll free telephone 0 number
- Drivers can locate available charging stations with ChargePoint Network Driver Portal or smartphone app



**Technologies** 

RUTHORIZING	Contractions of the con
ChargePoint	a Villan
mychargepoint.net 1-888-758-4389	
	VISA
F&M First & Mercha	7899 3430

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Myth	Reality
Because most charging will be done at home, shared charging isn't interesting	<ol> <li>31% of Americans live in MDUs</li> <li>20% of Charging will be public</li> </ol>
Plug-in Hybrids don't need charging stations	The smaller the battery the more people charge. PHEV drivers get gas anxiety
Better battery technology will mean cars will have enormous range	Better battery technology will mean cars will be affordable



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