

The leader in clean electric transportation

Corporate Overview NASDAQ: ECTY April 20, 2011



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Overview

- Electric Vehicles are here and more coming
- Standards on evse are in place
- Grid needs to adapt and solutions (clustering)
- EV Micro Climate
- Blink
- The EV Project
- ABB and ECOtality
- Concluding remarks.





Early Electric Vehicles

By 1900, 38% of vehicles in the U.S. were electric.
Primitive battery technology & electric grid
EVs needed to be close to power plants
Oil was cheap and becoming more widely available.
ICE's had a mobile "self contained power plant"



Thomas Edison and an EV (1913)



Thomas Edison in an EV (1914)



EVs resurfaced the 1990s



TEV electric - 1993



Chrysler Epic - 1992



GM EV 1, circa 1996



Toyota RAV4 EV, 1997-2003



Why it failed

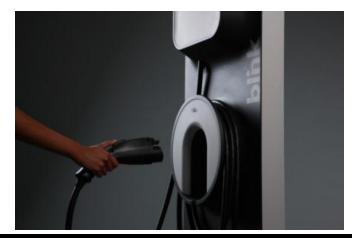
- 1990-2010: No official EVSE inlet/connector standard
- Inability to create universal public charging networks
- DC Fast Charge limited to fleet trials
- Relatively low gasoline prices
- Limited battery technologies (lead Acid)





Why it will succeed

- Better battery technologies (lithium based)
- 2010: SAE J1772 standard established (240V/ 32A)
- Adopted by every major EV manufacturer
- Allows for universal Level 1 & 2 EVSE infrastructure
- Consumer demand for EVs at all time high
- High gasoline prices
- National security & environmental considerations







North American Standards

- DC Fast Charge standard still undefined
- All Japanese OEMs have adopted the CHAdeMO
- SAE also working on DC Fast Charge Standard
- Physical limitations effect ability for higher speed







Different Charging Levels

	Level 1	Level 2	DC Fast Charge	
SPECIFICATIONS	120VAC; 12Amps	240VAC; 40Amp	480VAC/ 3Phase 30kW - 250kW	
CHARGE TIME (10-30kWh)	8-24 hours	4-8 hours	10-30 minutes	
APPLICATION	Emergency Use, Remote Areas	Residential, Commercial, Public Areas	Commercial, Fleet use	





EVs Are Here...

THE MAJOR MANUFACTURERS

Vehicle	Manufacturer	Туре	Electric Range (Mi)	Battery Size (kWh)	Model Year
LEAF	Nissan	BEV	100	24	2011
VOLT	GM	PHEV	40	16	2011
ActiveE	BMW	BEV	120	32	2011
Transit Connect	Ford	BEV	80	28	2011
Focus Electric	Ford	BEV	100	24	2011
i-MiEV	Mitsubishi	BEV	75	16	2011
Prius PHEV	Toyota	PHEV	14.5	5.2	TBD
Smart EV	Daimler	BEV	70	16	2012
RAV4-EV	Toyota	BEV	100	35	2012



blink

And Fiat, Chrysler, Volkswagen, Audi, Hyundai, Kia, Jaguar, Porsche, Tata, and even Bentley are all coming as well...!

... And More Are Coming

NEW MARKET ENTRANTS								
Vehicle	Manufacturer	Туре	Electric Range (Mi)	Battery Size (kWh)	Model Year			
Roadster	Tesla	BEV	245	53	2010			
Karma	Fisker	PHEV	50	20	2011			
Coda Sedan	Coda	BEV	100	37	2011			
F3DM	BYD	PHEV	62	13.2	2011			
e6	BYD	BEV	250	72	2011			
Think City	Think!	BEV	120	24	2012			
Model S	Tesla	BEV	160-300	42-95	2012			

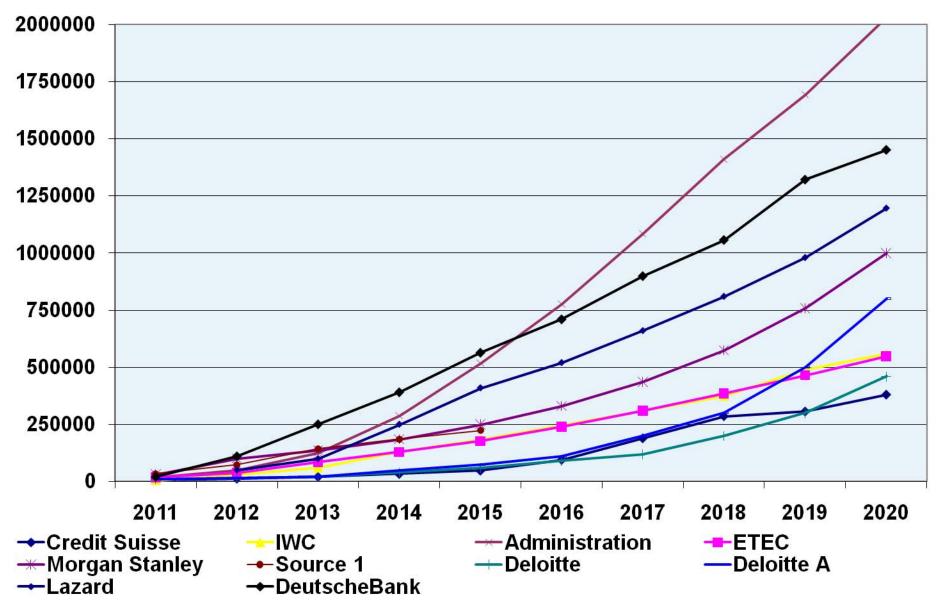


There are over 35 new E – Car new companies worldwide...!

blink

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...And More Are Coming



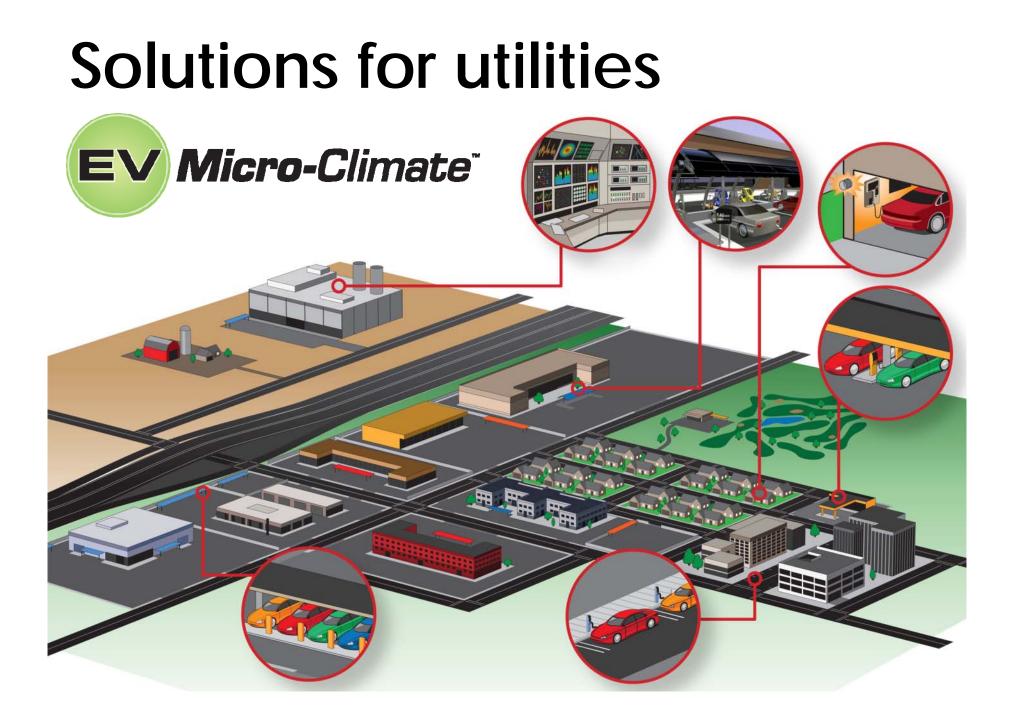
EVs will impact the grid (if not managed correctly)

- A typical home consumes 2-5 kW
- Residential EVSE will use 3.3-6.6 kWs (@ 240V/32A)
- DC Fast Charging will use up to 60 kW for passenger cars.
- Consumer demographics will lead to neighborhood clustering









EV Micro-Climates

Structured program to make regions <u>& utilities</u> "plug-in ready"

1) Community Planning

- Deployment Guidelines & Stakeholder Coordination
- Long Range Plan (10 years)
- Micro-Climate Plan (1-3 years)

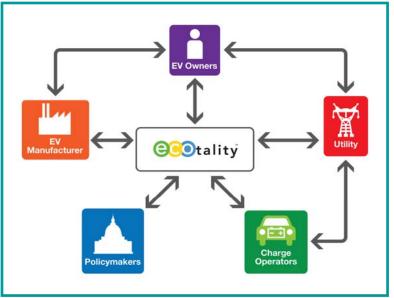
2) Road Mapping

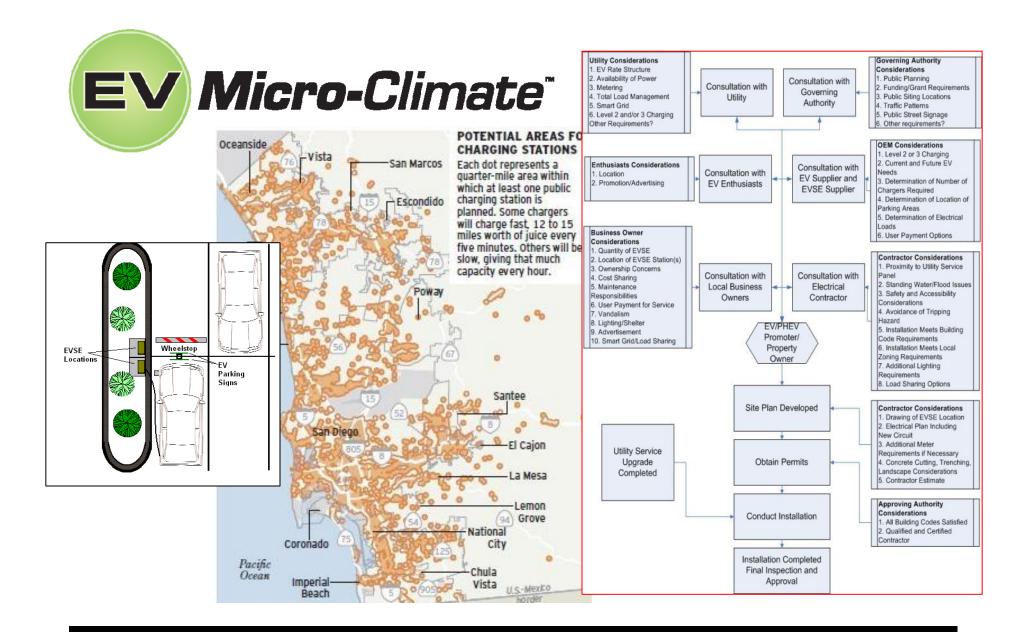
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- 1-3 year action plan
- Systematic GIS mapping

3) Infrastructure Implementation

- Deployment of EV charge stations
- Targets scalable national accounts
- Implement sustainable business models





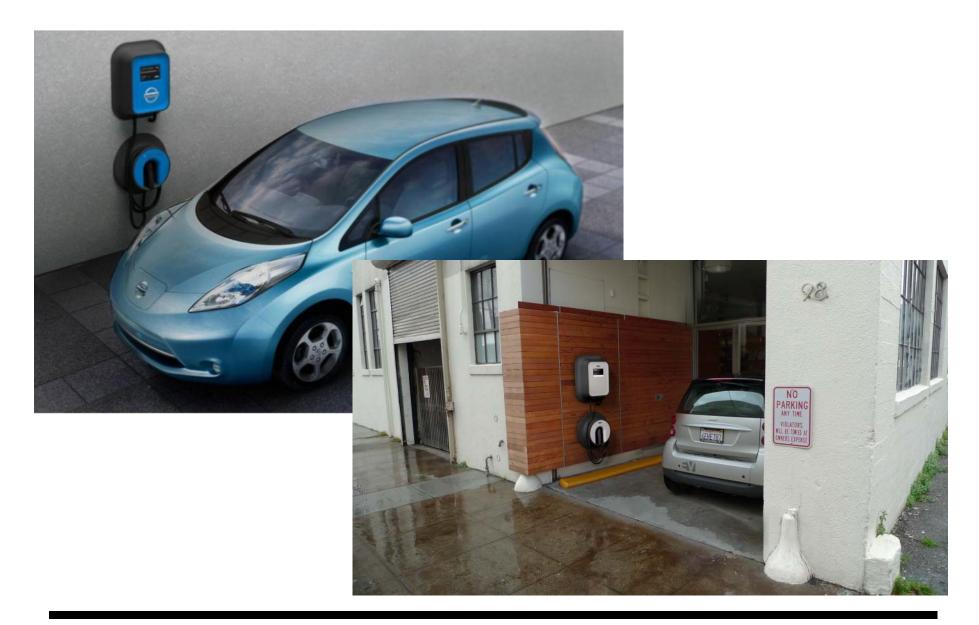


The smart solution for utilities

blick Residential Level 2

- •240VAC /32 Amps
 •Interactive color touch screen
 •Real time communications
 - LAN, CDMA, WiFi, AMI
- •Certified utility meter (ANSI-C.12)
- •Programmable charge time
- •Smart phone & internet controls
- •ADA compliant
- •Available in Plug-In and Hardwired Models
- •Designed for 10,000+ cycles







blink Commercial Level 2

•240VAC/ 32 Amps •Color touch screen Real time communications LAN, CDMA, WiFi, AMI •Certified utility meter •Reservation capable •Smart phone & web controls Host web portal •360° beacon light •ADA compliant Cord management





bink DC Fast Charger

- •3 phase/480VAC
- •42" Color Monitor (optional)
- •Color touch screens
- •Dual port dispenser design
- •Real time communications
 - LAN, CDMA, WiFi, AMI
- •Certified utility meter
- •CHAdeMo Connectors
- •Reservation capable
- •Smart phone & web controls
- •Host web portal
- •ADA2compliant

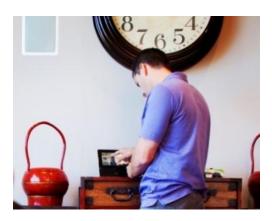




HAN/HEMS Integration

For Consumers

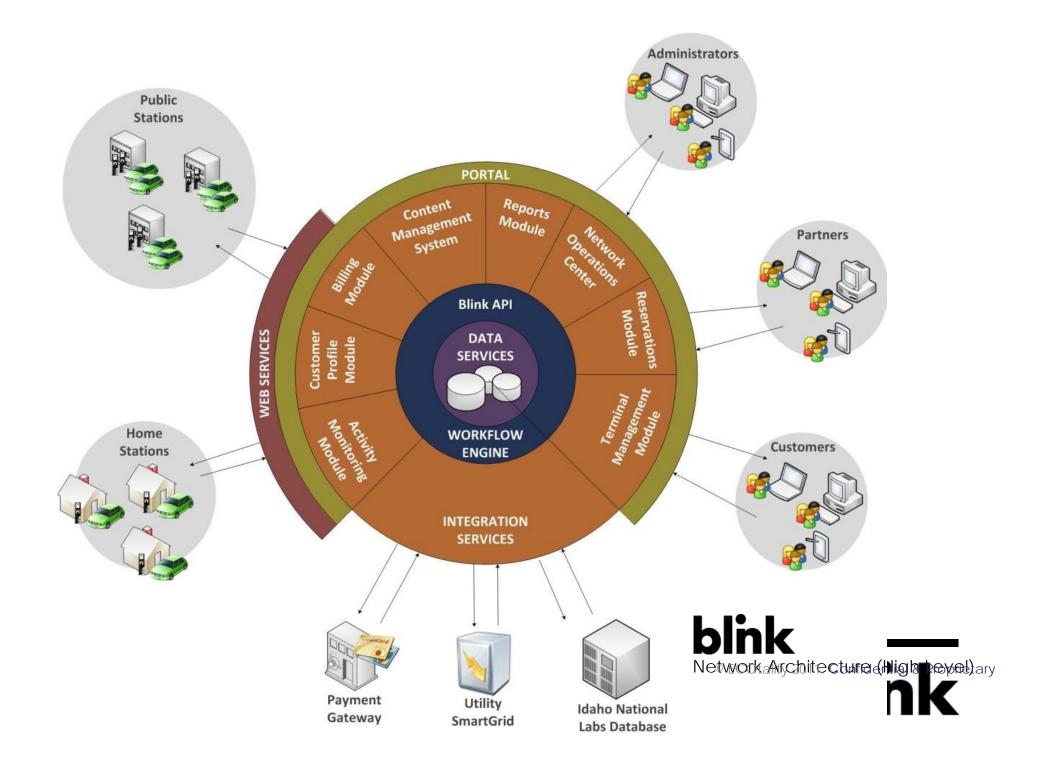
- Better understanding of energy use
- Optimizes charging behavior
- Remotely manages Blink EV charging
- Integrates with other smart appliances
- Lower up-front installation costs



For Utilities

- Integrate homes into DR and dynamic pricing programs
- Integrates with utility AMI and DRMS
- Helps utilities directly message to consumers
- Improved billing through direct communication with energy usage information





Hereit

The largest DOE EV Infrastructure Program

PROJECT MANAGER:ECOtality North AmericaPROJECT SCOPE:Approx. 14,000 Charging Stations8,300 Nissan LEAFs & GM VoltsTOTAL VALUE:\$245.6 million (\$122.8m Private match)





OBJECTIVES:

- Collect & analyze data on EV use & charging patterns
- Evaluate effectiveness of charge infrastructure
- Commercially test various revenue systems
- Establish a scalable & viable infrastructure model

www.TheEVproject.com

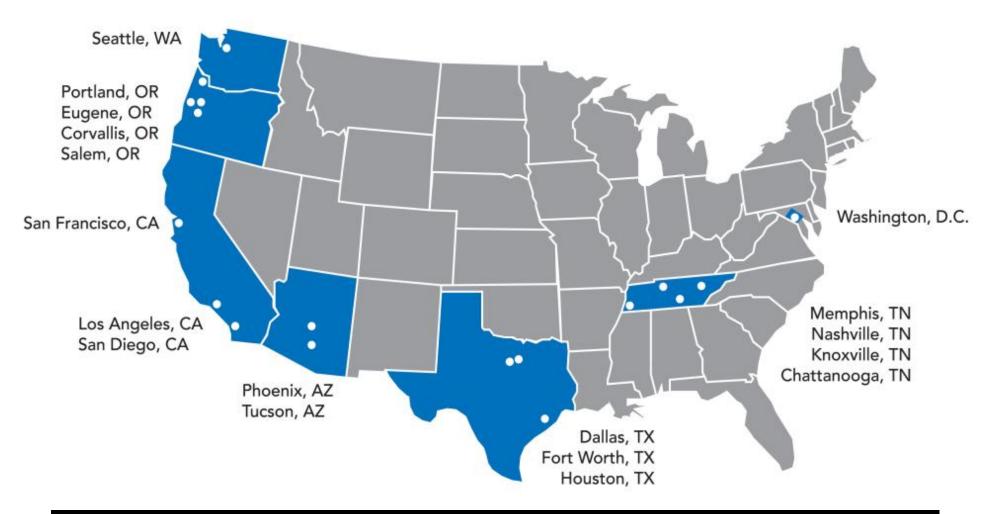
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50+ Project Partners



18 Major Cities





National Accounts

STRATEGY: Target leaders in various retail markets to host & retail EVSE to establish a scalable national solution.





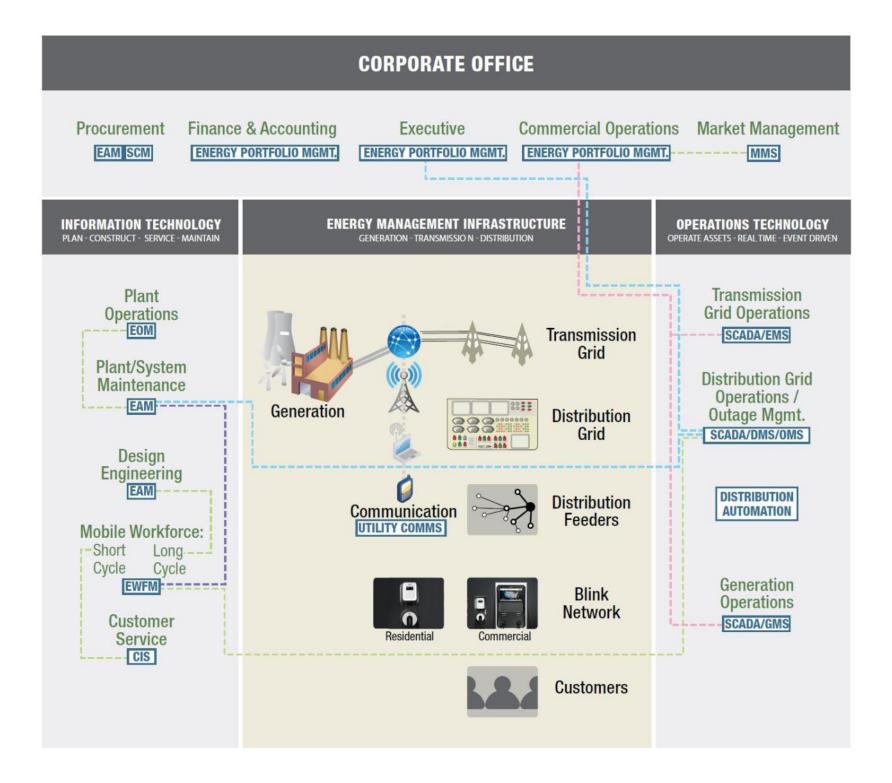
Strategic fit with ABB

- Experience in grid management at transmission & distribution
- Product/component supplier
 - Deep competency in power electronics
 - Cost effective technology development for slow and fast charging solutions
 - Low-cost, high-volume manufacturing
- Global reach & reputation
- Utility Software solutions



- Project management for EV programs
- EV Micro-Climates a turn key for utilities to be "plug-in ready"
- BLINK Network for EVSE management & complete customer interface
 - Billing, Authentication, etc.
- Advanced smart charging allows for utility integration and smart grid/ancillary service integration
- Strong presence in North America
- On all industry advisory committees
- Smartest charger on market







Power and productivity for a better world™ Leading EV Infrastructure Solutions

EV solutions for a better world



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