



Making Electric Mobility a Reality

Company Presentation 2011

# Electric Vehicles are Here, More are Coming



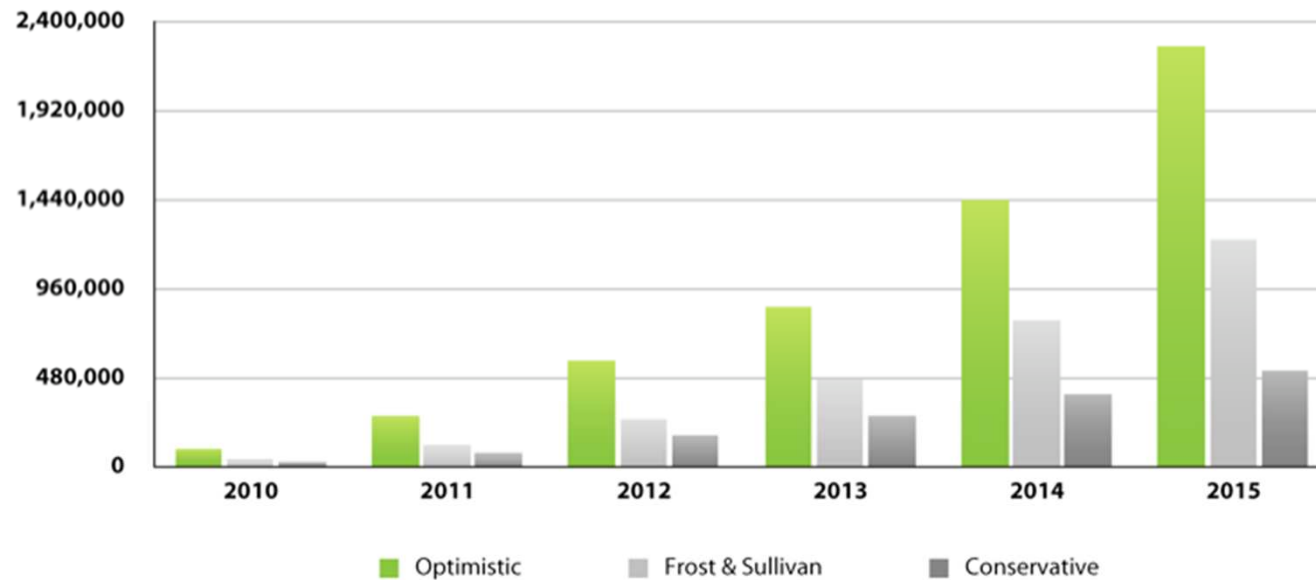
## Major EV Commercialization Timeline



# EV Market Growth Potential



Global EV Sales, 2010-2015



Given faster than expected improvements in batteries, vehicles are becoming commercially viable faster than projected.

China alone is projected 500,000 vehicles by the end of 2012.  
Germany is planning for 1,000,000 vehicles in the next decade.

Source: Frost & Sullivan APAC EV Report.

# Electric Vehicles Create Opportunity



## Improve the way we live

- Improve environment
- Reduce dependence on oil
- Reduce cost of transportation

## Reduce our vehicles operation costs

- Electricity costs are dramatically lower than fuel costs
- Fewer moving parts to maintain

## Meet government regulatory requirements

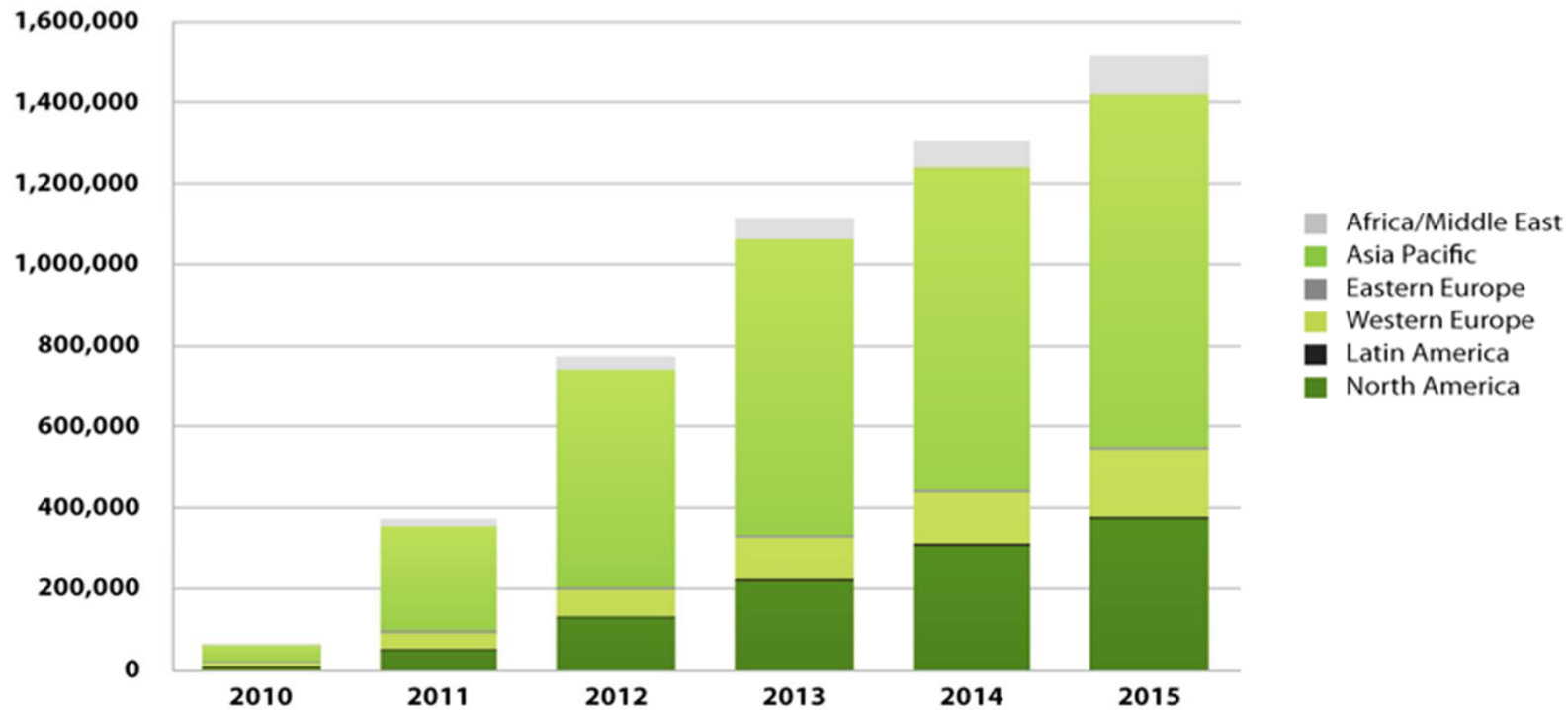
- Decrease petroleum consumption
- Increase alternative fuel use
- Greenhouse gas reduction

**But without infrastructure nothing will move forward....**

# EV Charging Stations Market



Total EV Charging Station Unit Sales, 2010-2015



Cumulative US\$6.5 billion market opportunity 2010 - 2015

Source: Pike Research.

## Electric Vehicles Create Infrastructure Challenges









- How to provide convenient electric charging access?
- How to make system are simple and user friendly?
- How to ensure vehicles are always charged and ready?
- How to handle the “range anxiety” factor?
- How to protect driver and utility network safety and limit liability?
- How to control access and differentiate cost of electricity delivery to vehicles?
- How to manage costs and track greenhouse gas and other savings?
- How to make sure network can be easily extended and
- stay current with new technology?
- How to manage the potential increase demand?

So someone needs to get things moving...

## Poland EV Reality



-  No real central government support and coordination
-  Not enough money available to build up initial infrastructure
-  Legal frame work not defined
-  Limited number of car vendors to ship products to Poland in 11-12
-  Local municipalities trying to get involved
-  Private business initiatives, such as e+, vattenfall, Komel, RWE, green stream

## Poland – Moving Forward



1. Joint effort to get central government involvement
2. Local municipalities set up a practical pilot project
3. Infrastructure budget is defined, with/without EU support
4. Public and Private Task Group is set to move forward
5. Build awareness by example, key local people to drive EV (mayor)







**Alva Technologies is an electric mobility solutions integrator.**

The company provides comprehensive services in the field of electric vehicle infrastructure.

Our products and solutions include: Electric vehicle networked charging stations supporting Smart Grid infrastructure, Tailor made software solutions for managing the charging network and consultancy services.

Alva Technologies is currently developing electric vehicle infrastructure in the EMEA with a special focus on the market in Poland.

## Our Solutions

### Charging Stations

Charging stations  
Level I-III and DC  
charging under our own  
brand and also from the  
world leading vendors.

### Charging Network Systems

Charging stations  
management & control  
systems and tailor made  
solutions to support the  
charging network.

### Consultancy Services

Planning the charging  
network and creating  
business models for  
electric mobility  
together with the  
related marketing and  
sales strategies.

## Our Products



- Simple or Networked Charge Points
- Level I-III
- Greenlots based
- Competitive Price!



- Networked Charge Points
- Level I-II, III(Q2 2011)
- Comprehensive network control system



- Networked Charge Points
- Fast Charge (DC)
- Unique Experience in DC charging solutions

# Our Smart Network

Alva and its suppliers offer charging stations with intelligent management & control capabilities, among other our systems include:

## User / Driver Portal

To manage accounts, sign up to network, apply for RFID tags, locate charging stations on a map and more.

## Host / Management / Utility Portal

To control remote access to charging stations for non account users, monitor unit performance, occupancy and usage, shut down/delay/restart stations or network of stations from remote and more.



## Our Stations Around the World



Alva and its suppliers stations were installed in, partial list: The Netherlands, Belgium, Norway, Germany, UK, Poland, Slovenia, Turkey, Japan, Singapore and Hong Kong.



## Contact Us



# Alva Technologies

Poland / Austria / Cyprus / Israel

Phone: +43-676-5565556

Fax: +357-22-662215

Email: [info@alvatech.co](mailto:info@alvatech.co)

Web: [www.alvatech.co](http://www.alvatech.co)

Alva Technologies Ltd.

Chapo Central, 20 Spyrou Kyprianou

Office 201, 1075, Nicosia, Cyprus



Thank You, Lets Make Electric Mobility a Reality !

