

# Electric Vehicle Charging Solutions

for businesses



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## It is the goal of the President to put one million electric vehicles on the road by 2015.

The U.S. Department of Energy has plans to invest in electric vehicle infrastructure, research and development, and demonstration projects nationwide that are laying the ground work for achieving the President's goal. These efforts will reduce cost, gather data, drive innovation, support manufacturers to produce, and spur consumer demand.

(One Million Electric Vehicles by 2015, U.S. Department of Energy)

## Electric Cars are becoming a commonplace.

More car companies are creating electric vehicles and hybrids in order to minimize our carbon footprint. Utility and grid companies are rushing upgrade equipment and establish programs to accommodate the spike in demand for electric vehicles.

## Why Electric Vehicles?

**Electric vehicles release almost no air pollutants, and will help reduce our nation's carbon footprint.**

According to the Department of Energy & research conducted at Pacific National Laboratory: 84% of existing vehicles switching over to at least plug-in hybrids would create a net result of 27% total reduction in emissions of greenhouse gases, carbon dioxide, methane, and nitrous oxide, as well as a 31% total reduction in nitrogen oxides, and a near elimination of carbon monoxide, and other volatile organic compound emissions <sup>[1]</sup>.

**Electric Vehicles are cheaper.**

In terms of cost, it is approximately 2 cents per mile to drive on electricity, compared to the 12 cents per mile on gasoline. Electric vehicles don't consume energy when they are not moving, unlike internal combustion engines where they continue to run while idling. <sup>[2]</sup>

<sup>[1]</sup> Pacific National Laboratory, Department of Energy, Impacts Assessment Of Plug-In Hybrid Vehicles On Electric Utilities; Technical Analysis, November 2007

<sup>[2]</sup> Shai Agassi, Better Place CEO, Bold Plan for Electric Cars, 2009



## Accessibility of Charging Stations

Electric Vehicle users need to plug in at their place of work, school, or a place of residence.

Potential Applications for Charging Stations:

- » Businesses
- » Hotels
- » Apartments
- » Universities
- » Hospitals

**Make Electric Vehicles more practical with more available Charging Stations.**

This ability to plug in your electric vehicle would extend the range of commute, and eliminate range anxiety.

**Promote environmentally friendly options.**

By installing electric vehicle chargers, companies promote eco-friendly options for their employees, residents, visitors, clients, and students.

## Most states offer incentives to companies who choose to install electric vehicle equipment up to 75%\* of installed cost.

Tax credits, rebates, incentives, and grants are eligible to entities that install commercial charging systems and provide public access. These incentives are offered by federal, state and local governments, utility companies, electric vehicle charger manufacturers, and private institutions.

With a greater need to lower dependency on foreign oil, electric vehicles and chargers are increasing in demand and the federal, state and local governments have appropriated billions of dollars in funding.

\* Varies by State.

**With limits on today's technology, electric cars have a maximum range of 90-120 miles before needing to be recharged.**



**Energy Design Service Systems (EDSS) has the knowledge, expertise and federal certification to help you meet and exceed standards required for installation and incentives.**

EDSS does the legwork for you to obtain these incentives and will work with your accounting team on paperwork involved in filing with the IRS.

As a company that stays on the forefront of energy efficient building applications and new developments and with more than three decades of experience in the energy industry, EDSS is dedicated to researching and applying for various federal, state and local grants and incentives on your behalf.

EDSS matches a highly developed design sensibility with rebate and incentive programs that can make a big difference in your bottom line, saving you money and helping your company to set a good example for your customers and the community you serve.

**It is estimated by 2020, electric cars and other green cars will take a third of global car sales<sup>[3]</sup>. All of these cars will need a place to recharge.**

[3] International Business Times, Electric Vehicles to represent a third of global sales by 2020, October 2010





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