



OorjaPac
The Solution
To Your Battery Charging Needs

Oorja has pioneered the development and commercialization of an alcohol-based on-board charger solution for the material handling industry



\$25 Million invested to date

15 Field Trials completed in 2007 and 2008

**Customers include Nissan, Toyota (NUMMI), ACE Hardware,
Super Store Industries**

Current production capacity of 8,000 units/year

Experienced Team in Place

Analysis for Carbon Footprint Reduction (10,000 OorjaPacs)

- Base Case Assumptions:
 - 2 shift Operations
 - 8-10 hrs/shift
 - Average Daily Energy Output of an OorjaPac= 10-15kWhr
- Compared to Coal-Based Grid
 - Carbon-footprint saving per kW-hr= 2.75 lbs/kW-hr
 - **Annual Carbon-footprint savings= 275,000* 300 days= 165,000 lbs (41,250 Tons)**
- Compared to Natural Gas-based Grid
 - Carbon-footprint saving per kW-hr= 0.84 lbs/kW-hr
 - **Annual Carbon-footprint savings= 84,000* 300 days= 50,400 lbs (or 12,500 Tons)**

Energy Savings and Electricity cost Savings (10,000 OorjaPacs)

2 shifts (8hr shifts); 2 battery changes/shift	Energy Savings MW-hr/year	\$/Annual cost of Electricity/total vehicles	
		\$.10/kwh	\$.25/kwh
10,000 vehicles	246,000	\$24,685,700	\$61,714,300