



All Electric, All the Time

With Wireless Charging

ITS World Congress

WAVE | At a Glance



Delivering Commercial Product

- \$7+M in Commercial Contracts



Initial Focus on Heavy Duty Vehicles

- En-route charging enables commercial use



Proven Management & Technology Team

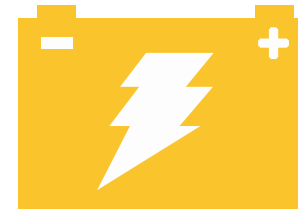
- 25+ Employees



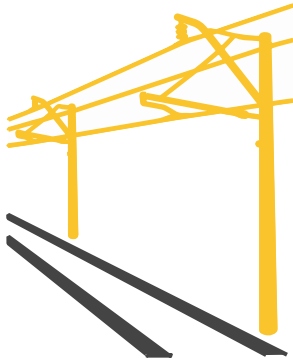
All-Electric Transportation | Market Viability?



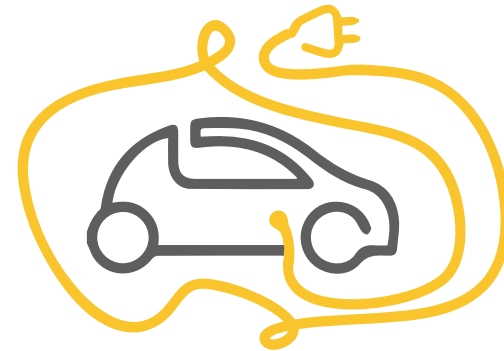
Limited Range & Anxiety



Heavy & Expensive Batteries



Ugly & Expensive Infrastructure

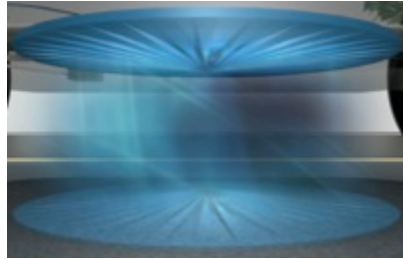


Impractical

The Solution | Wireless Power Transfer (WPT)



Electric Grid



Wireless Charger



Vehicle

WAVE Technology:

- ✓ Safe charging through road and all-weather conditions
- ✓ Simple and cost effective
- ✓ Smaller battery packs and unlimited range
- ✓ Batteries charged "on the go" throughout route
- ✓ Elegant Infrastructure – no cables or overhead wires

Market Creation | Creating New Markets for EVs

Wireless En Route Charging Enables Applications & Markets That Do Not Exist Today



WAVE's WPT | The Technology

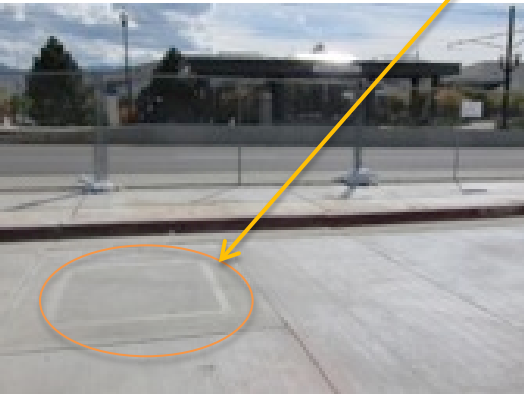
- 7.4" Air Gap, 10.5" Magnetic Gap
- Third Party Certification that it meets ICNIRP Guidelines and ISO/ANSI 14117 Standards (medical devices)



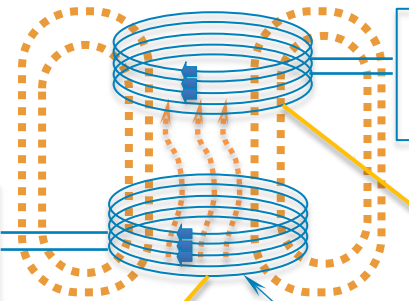
Input Power from Grid



Transmitter Electronics

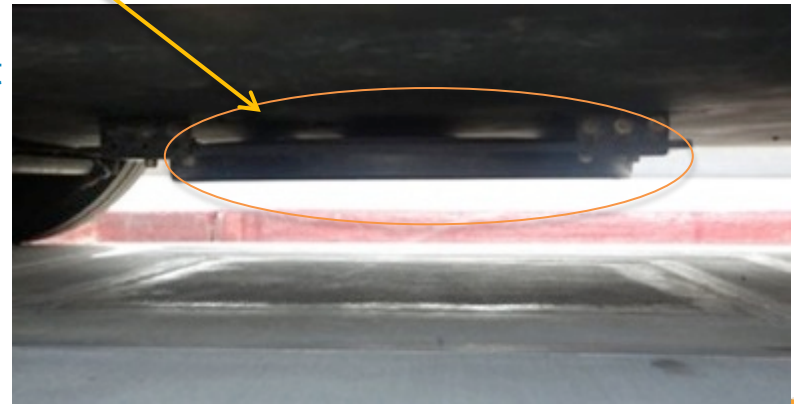
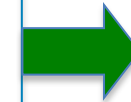


Magnetic Field



Receiver Electronics

Output Power to Vehicle



Current

WAVE's WPT | A Typical Duty Cycle

- ① Vehicle Receives Full Charge Each Night ② Batteries Drained as Vehicle Drives Route

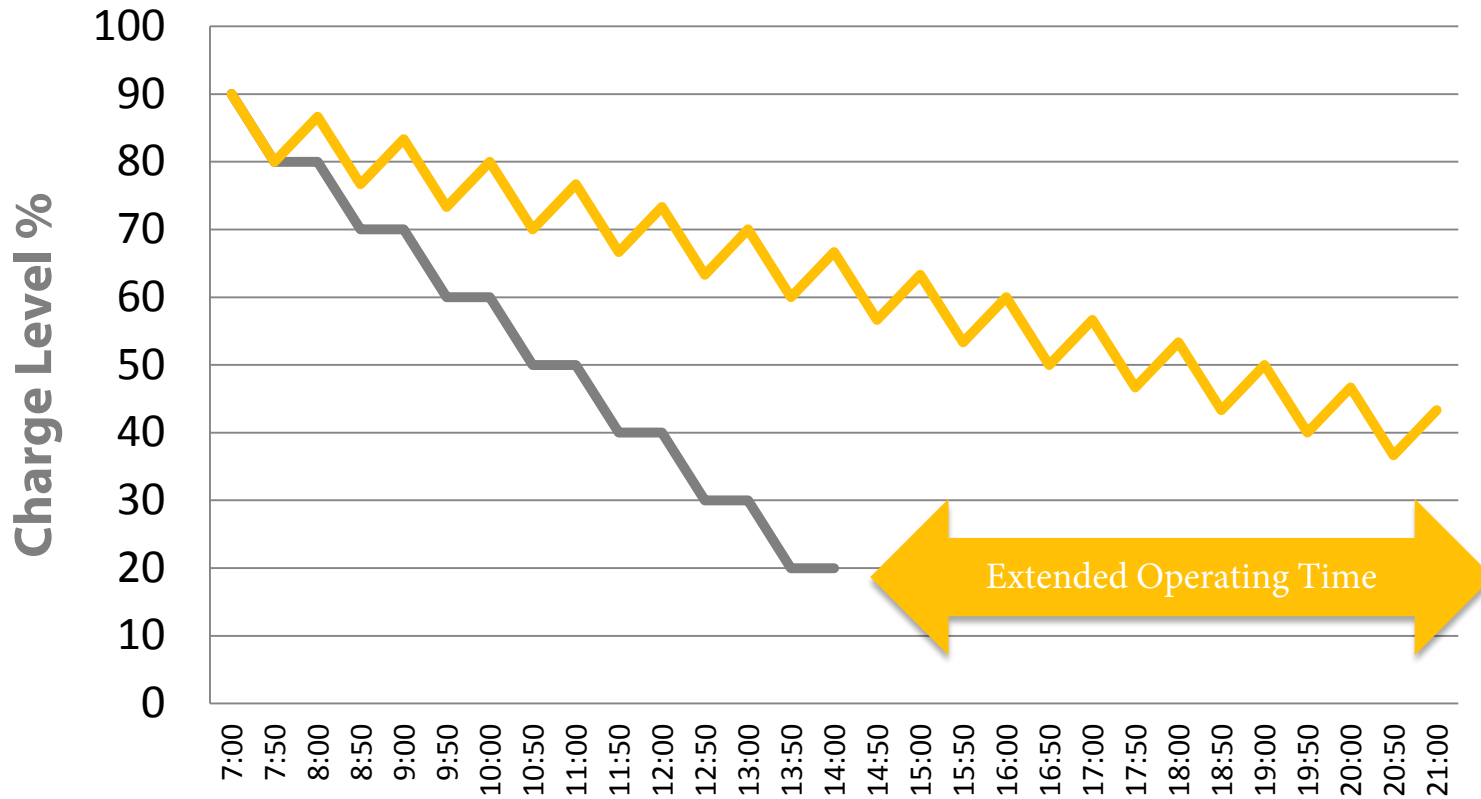


- ③ Vehicle Recharges Wirelessly Throughout Day ④ Vehicle Has Limitless Range

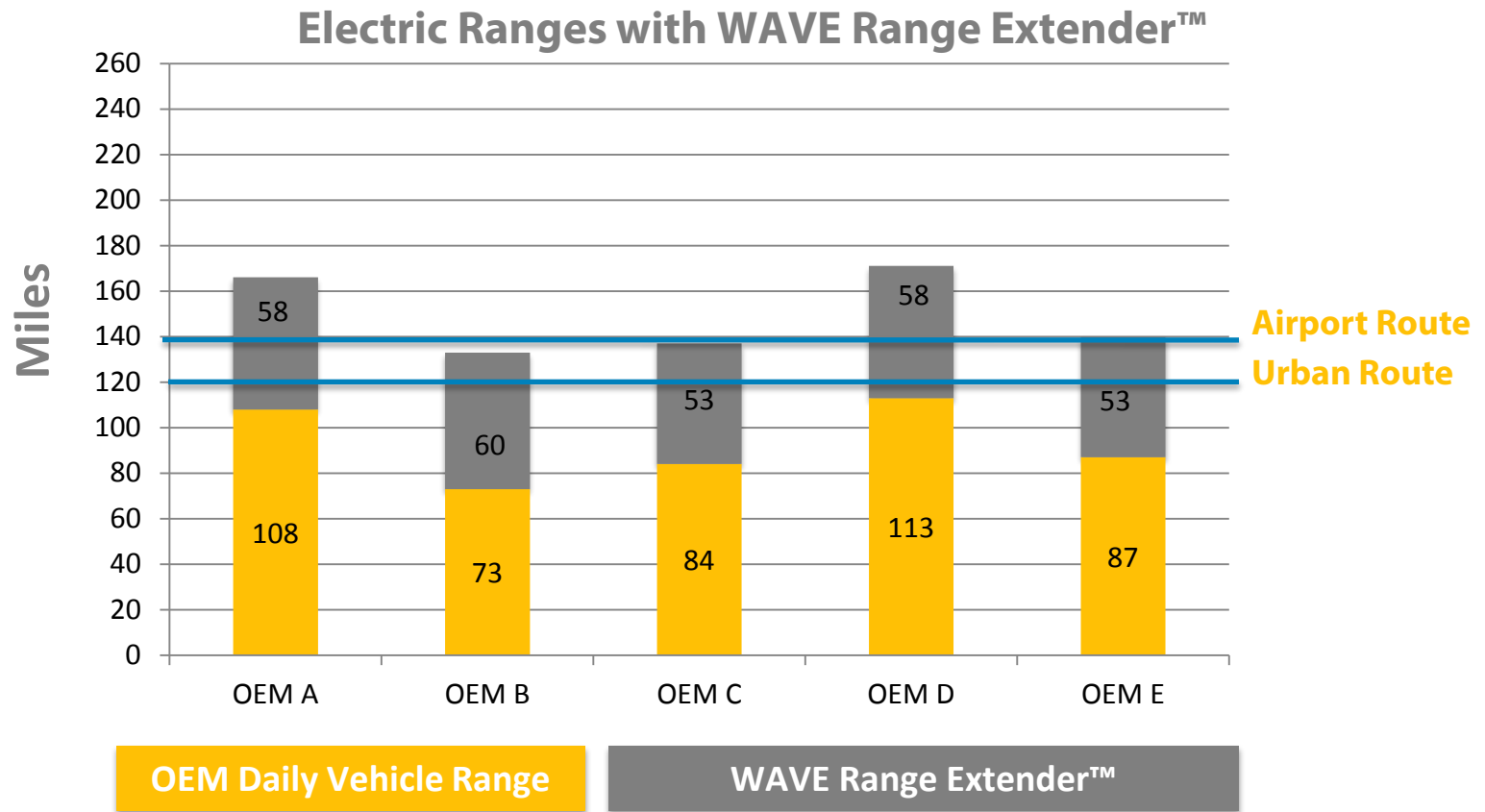


Opportunity Charging | Daily Charging

EV vs. EV with WAVE



Electric Bus Ranges | With WAVE



Traction in Transit | Four Commercial Deployments



UTAH TRANSIT AUTHORITY



metro
McAllen, Texas



MONTEREY-SALINAS TRANSIT



Antelope Valley Transit Authority

- **\$7.1M in awarded contracts**
- **Multiple vehicle platforms**
- **Variable route lengths**
- **High-profile locations**

Utah Transit Authority | Commercial Deployment

- 50 kW charging system
- Feeder shuttle for light rail “TRAX” system
- Full Service launch in Fall 2014



Bus charging over snow (Dec 13, 2013)



Charging system primary pad



Remanufactured all-electric ZEPS bus from CCW

Monterey Salinas Transit | Waterfront Route



- All-electric trolley replaces diesel trolley
- 4.5 mile route
- 50 kW charging system
- Operational Q1 2015



McAllen Metro | A Green Route in Texas

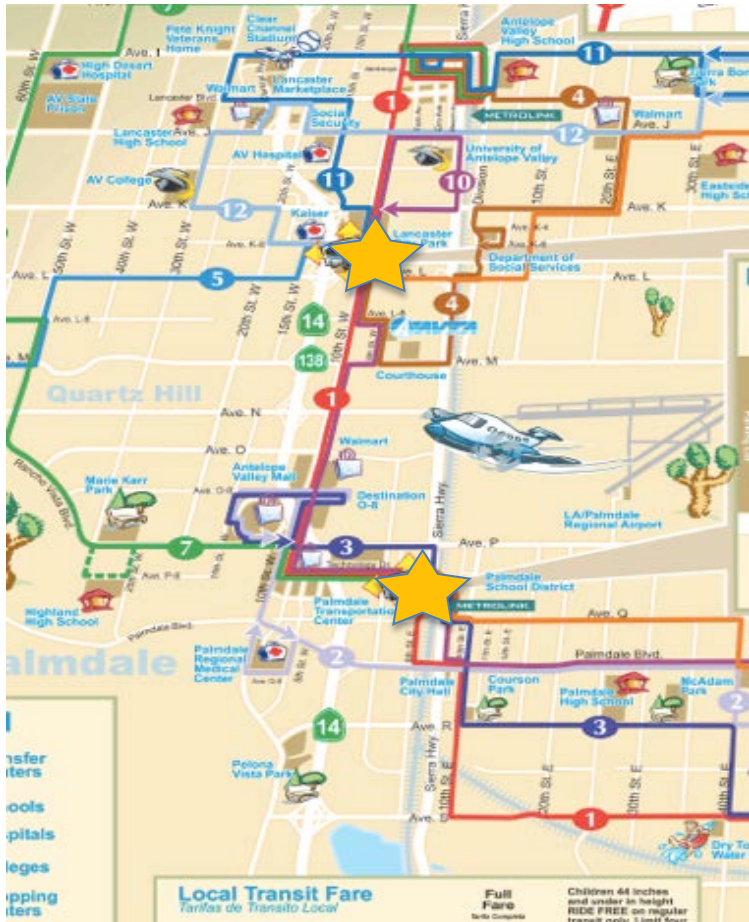
- Route will provide all electric service to the airport, hospital and shopping center
- 50 kW charging system for two Complete Coach Works “ZEPS” buses
- Awarded the grant after a competitive bidding process



metro
McAllen, Texas



Antelope Valley | Laying the Groundwork



- Based in Lancaster, CA – home of BYD’s manufacturing plant
- Long duty cycles
- 50 kW charging system
- Initial chargers at Lancaster City Park & Palmdale Transportation Center
- Commitment to full electrification
 - Initial order of 2 BYD buses & 2 WAVE chargers
 - Grant application submitted for 12 additional buses and 2 more chargers
- Operational Q2 2015

Management Team



Michael Masquelier
CEO & CTO

Entrepreneur and technology expert in wireless, power electronics and sensors with 11 issued and pending patents including Motorola Labs



Wesley Smith
Chief Development Officer

Over twenty years of business development and startup experience in telecommunications, energy, and technology sectors.



Guy Letendre
Chief Operating Officer

Supply chain expert with executive level engineering, operations and business development experience with Autoliv & Infinia Corporation



Hunter Wu
Chief Scientist

Co-inventor of University of Auckland WPT system; Ph.D Electrical Engineering; Over a dozen peer-reviewed, IEEE international journal and conference publications.



John English
Director

Former Utah Transit Authority CEO, national leader in transit industry

Technical Team

Power Electronics Engineering



Michael Masquelier
CEO/CTO



Hunter Wu
Chief Scientist



Hadi Malek
Product Engineering Manager



John Ruess
Electrical Engineer



Eric Ladd
Power Electronics Test Engineer



Lehi Vitor
Lab Technician



Michael Lewis
Lab Technician

Software Engineering



Bryan Stenquist
Senior Embedded Software Engineer



Marcellus Harper
Embedded Software/Firmware Engineer



Jay Hotvedt
Embedded Software Engineer



Eric Christensen
Embedded Software Engineer



Steve Ball
Software/Firmware Engineer

Operations



Guy Letendre
COO



Tracie Peterson
Project Manager

Mechanical Engineering



Evans Griego
Senior Mechanical Engineer



Robert Erickson
Mechanical Engineer



Robert Jackson
Mechanical Engineer

Not Pictured:
Andy Moore,
Mechanical Engineering Manager;
Robert Baker,
Manufacturing Data Engineer



Orlin Wetzker
Software Project Manager



Melissa Wilcken
Director of Product Manufacturing

Not Pictured:
Melanie Espinoza, Supply Chain Assistant