

# Technology Commercialization

---





# TECHNOLOGY COMMERCIALIZATION

---

**JAMES ROBBINS**  
**ENVIRONMENTAL BUSINESS CLUSTER**

**CEC Meeting**  
**February, 2009**



# ENVIRONMENTAL BUSINESS CLUSTER

---

- First U.S. Environmental Incubator
- Clean Technology Commercialization Center
- Focused on San Jose & Silicon Valley
- 25-30 Companies Throughout California
- Both Resident and Non-Resident Programs
- Partnerships with NREL, CEC, & San Jose



# ENVIRONMENTAL BUSINESS CLUSTER MISSION

---

- Increasing Start-up Success & Accelerating Growth
- Reducing Barriers To Commercialization
- Bringing Environmental Products & Services to the Market



# Environmental Business Cluster

---

- Work with companies receiving research grants and developing technology from universities, labs and private sector
- Provide assistance to help companies commercialize their technology
- Achieve market entry – the EBC rated #1 in the world by a UK study of 110 clean tech centers



# San Jose Electronic Transportation Development Center

---

Build an advanced electronics transportation sector in San Jose focused on the development of vehicles that use clean and renewable energy by integrating San Jose and Silicon Valley technologies that help to diminish our reliance on fossil fuels.



# Electronic Transportation Development Center

---

A place where:

- Established and early-stage companies focus on the design, development, commercialization and prototype manufacturing of alternate fuels and hybrid electronic commercial vehicles, &
- Companies can collaborate on projects, share labs, manufacturing, demonstration, & office space



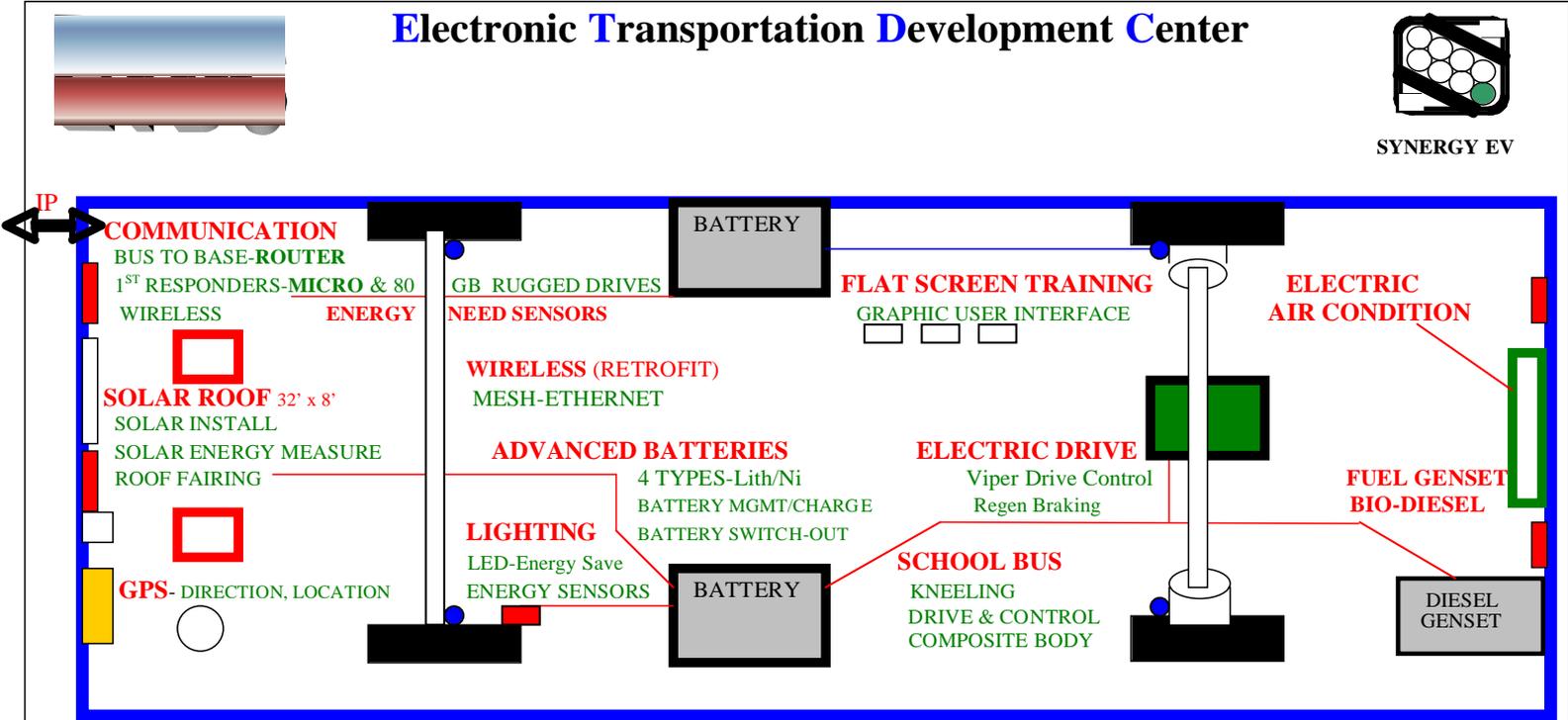
A Silicon Valley Battery Dominant Bus could save up to  
11,000,000 Gallons of fuel or \$45M/yr in California

---

QuickTime™ and a  
decompressor  
are needed to see this picture.

The first ETDC project is an electric school bus.

# Electronic Transportation Development Center



# 9 Enhancement Areas from the ETDC that could be added to the Proterra base bus

## Battery Alternatives

38 Battery Companies

## Solar Monitoring & Fueling

Solar Expertise Team

## Generate Range Extension

Limp Home & Max Range

## Energy Reduction

Sensors, LED, Emergency Lights

## Child Safety

Child Avoidance, Onboard Video, Dangerous Material Detection, Communication

## Global Positioning

School Route Driver Assurance

## Student Training

Onboard Training Systems

## Data Storage

Microprocessors/Drives

## School District Order Financing

Twelve Year Payment Budgeting



# CONTACT INFORMATION

---

**Jim Robbins**  
**Environmental Business Cluster**

[jarobbins@aol.com](mailto:jarobbins@aol.com)

[www.environmentalcluster.org](http://www.environmentalcluster.org)

**(408)489-2664**