



## **EV Project Update**

**ASU Global Institute of Sustainability  
(GIOS)**

**May 12, 2010**

**Electric Transportation  
Engineering Corporation (eTec)**

# EV PROJECT OVERVIEW

- ◆ **Project Markets**
  - ◆ Arizona (Phoenix and Tucson)
  - ◆ California (San Diego)
  - ◆ Oregon (Corvallis, Eugene, Portland, Salem)
  - ◆ Tennessee (Chattanooga, Knoxville, Nashville)
  - ◆ Washington (Seattle)
  
- ◆ **Project Funding**
  - ◆ **Approximately \$200 M Total Project**
  - ◆ \$99.8 M DOE
  - ◆ Private Sector Matching Funds
  
- ◆ **Project Partners**
  - ◆ MAG - PAG/Clean Cities
  - ◆ City of Phoenix - City of Tucson
  - ◆ APS & SRP - TEP

# OBJECTIVES

- ◆ Deploy 4,700 Nissan Battery Electric Vehicles In 5 Regions
- ◆ Establish Mature Charge Infrastructure To Support Electric Vehicles
- ◆ Identify And Resolve Barriers To Infrastructure Deployment
- ◆ Develop An Infrastructure Utilization Data Base
- ◆ Evaluate Infrastructure Effectiveness
- ◆ Develop Models For Future Infrastructure Deployments
- ◆ Model Infrastructure For The Next 5 Million Vehicles

# INFRASTRUCTURE DEPLOYMENT

- ◆ Electric Vehicle Supply Equipment (EVSE) Designed And Manufactured To Allow Power And Energy Data Collection And Demand Response Control
- ◆ Residential EVSE Installed For All Vehicles
- ◆ 1,300 Commercial EVSE Deployed In Each Region
- ◆ 150 Public EVSE Deployed In Each Region
- ◆ ≈ 50 DC Fast Charge Ports Deployed In Each Region
- ◆ Data Collected From All Chargers Via Internet
- ◆ Infrastructure Data Base Maintained And Analyzed At Idaho National Laboratory

# OVERALL SCHEDULE

- Contract 09/30/09
- EV Micro-Climates© Q2 2010
- Initial Infrastructure 08/2010
- Vehicle Launch 12/2010
- Final Infrastructure Q2 2011
- Evaluation Q4 2010 – Q3 2012
- Reporting Quarterly
- Completion Q2 2013

# EV PROJECT FORUM INVITATION

## Date and Location

- May 18<sup>th</sup> - 1 PM – 3 PM
- Audubon Arizona – Nina Mason Pulliam Rio Salado Audubon Center
- 3131 South Central Avenue, Phoenix, AZ 85040
- [www.az.audubon.org](http://www.az.audubon.org)