ELECTRIFY MY RIDE!

By: Thomas Brissenden & Max Scher
Currently over 90% of the U.S.’s oil consumption is from the transportation sector.
The Answer: Electric Vehicles
CASE STUDIES

• Evergreen State College – 11

• Seattle University – 21

• Bowling Green State University – Hybrid Electric Bus

• University of California Santa Barbara – 46

• University of North Carolina Charlotte – 65
WHY ELECTRIC VEHICLES AT WESTERN?

- Decreases WWU’s environmental impact
- Create an aware and engaged campus community
- Increases student involvement and education
PROPOSAL

- Facilities Management replaces their vehicles on a regular basis

- We propose replacing two vehicles with Electric Vehicles (EV)
POTENTIAL OBSTACLES

Research has lead us to certain conclusions:

• EV’s will not work for everyone
• Problems with maintenance costs
• Carrying capacity
• Slow top speed
SOLUTIONS

The 2012 Gem eL
SOLUTIONS-CONT.

• Improved Driving Habits

• Central hub/shop on campus

• Identify departments within Facilities Management (FM) suitable for EV use
IMPLEMENTATION

• A Gem eL for use by Quality Assurance Coordinator, Greg Hough

• Where it can then be used by the Custodial Supervisors as transport around campus when Necessary.

• A Gem eXL for use by the campus grounds keepers.
BUDGET

- FM will potentially spend about $100,000 for five vehicles this year

- Base model Gem costs around $12,000

- Previous pilot program found that EV’s costs approximately $0.63 per mile more than their fossil fuel vehicles

- Green Energy Fee
CONCLUSIONS/ FUTURE WORKS

• We know that EV’s have a future on campus

• Identify more potential EV operators

• Continued analysis of potential EV uses

• Determine the effectiveness of our cost saving measures

• Determine other alternatives for FM fleet vehicles