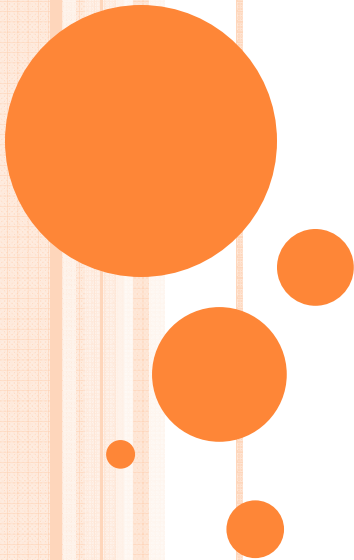


ELECTRIFY MY RIDE!

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



QUESTIONS?

