

Electric Vehicle (EV) Charging Stations WWU

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Project Proposal

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Executive Summary

With University campuses all over the nation installing Electric Vehicle (EV) Charging Stations to support sustainable modes of transportation, Western Washington University see's this project being implemented in its near future. Ensuring that these systems, once installed, operate effectively will directly reflect the policies that are put in place governing their use. Our aim is to devise a draft policy on the use of EV Charging Stations on Western's Campus. By talking with campus officials and other professionals we have tried to tailor the policy to best serve Western's community.

Statement of Need

Western Washington University has decided that they would like to implement electric vehicle charging stations on its campus, and is in need of policy to ensure its success in both the long and short term. Our draft policy proposal will look to guide Western in crafting Policy to manage electric vehicle charging stations on campus.

Project Description

After drafting our electric vehicle charging policy for Western Washington University, we will present it to a board of stakeholders from the University in hopes that they take our considerations and find them of help to the university's implementation process. Our policy will be heavily based off of information given by Julia Gassman and Carol Berry, Transportation Coordinators at WWU, to ensure the policy is congruent with other WWU Parking and Transportation policy.

1. Case Studies: UW Bothell, University of Wisconsin (see **Research Collection Resources** under **Resources**)
2. Research Collection: Chargepoint Representative, Interviews on WWU Campus, ASHE Response (see **Research Collection Resources** under **Resources**)

3. **Research Interpretation/Assessment:** Through our various case studies and research collection outlets, we have been able to devise a draft policy proposal for Western Washington University that addresses both logistical concerns for daily charging station use and framework policy that coincides with current WWU parking and transportation restrictions. We have used our gathered information from outside of WWU as base knowledge for crafting policy that best suits WWU and the implementation of electric vehicle charging stations.

Budget

Although we have rough numbers for the cost of maintenance for EV charging stations, there are many unforeseen costs. Our project is focused on devising a draft policy that Western may use in aid of implementing EV charging stations on campus. We are not as focused on the physical implementation of the charging stations as we are on the process by which this amenity can be integrated onto Western's campus effectively.. Therefore, we will not have a budget outline for our project.

Consultations

Carol Berry: Campus Conservation & Sustainable Transportation Program Manager. Carol helped guide our initial research, and has given great feedback on our policy proposals as we have begun to create a rough draft. Below will be listed some questions and answers that we asked and received from her in our initial interview, as well as some feedback she had given us on our original policy (which has helped shaped our newer versions).

(See **Interview Q & A** file under **Resources**)

Jul

ia Gassman: Western Washington University Parking Services Manager. Julia was our first contact we were able to sit down with and have a conversation about charging stations being

implemented on campus. She has given great insight on the potential issues that must be addressed in the policy for charging stations on campus, and has heavily guided the root framework for the policy. She has enabled us to create a new policy that is based off of parking and transit policy that is currently in use. Below will be a list of some of the first interview questions and answers we communicated with her, and some of the policy she saw as necessary.

(See **Interview Q & A** file under **Resources**)

Dan O'Shea: Dan is the Chargepoint Northwest Division's Sales Director who contacted us with answers to my initial EV charging station questions after I posted to an AASHE transportation blog. He provided us with miscellaneous policy examples as well as explanations as to how the technological features of charging stations function/operate. Furthermore, Dan gave us a list of other universities similar to WWU that have installed Chargepoint EV charging station technology. We had the opportunity of having a phone consultation with Mr. O'shea to learn the capabilities of the technology and how Western's Parking Services can manage and enforce their desired policies. Fortunately, with Chargepoint or any similar EV technologies, WWU can manage the charging stations with versatility and flexibility to enforce the policies they wish. Evidently, Chargepoint is leading the industry in user-friendly commercial charging stations and is the preferred charging station amongst university contexts.

Conclusion

The policy proposal for electric vehicle charging stations on Western Washington University's campus will look to ensure the longevity of their implementation by setting base framework for the stations eventual operation. The policy and implementation of charging stations further promote Westerns vision of campus sustainability.

Sources

- Research Collection Resources:

<https://docs.google.com/document/d/1xXh3otBkV1nt9ymTBdWzDbzu9Kmvq0oOBw4gHaE-NOE/edit?usp=sharing>

- Interview Q & A:

<https://docs.google.com/document/d/1tQqyzZ0snZZSi-mdh-jO7pWfsoIAKI46AtDnuulFTwE/edit?usp=sharing>

- Policy V. 4

<https://docs.google.com/document/d/1n5WoRKeQhOZpTIEpdoTSZx7tcMfjoWoCKcDn9ghsIAw/edit?usp=sharing>

- Chargepoint Website

<http://www.chargepoint.com/network/>