Transportation SWATeam Meeting

Date: 10/2/20

Time: 3-4PM

Attendees: Thomas Sun (AmpUp), George Gross (non-member faculty), Eleftheria Kontou (Faculty), Lindsay Braun (Faculty), Sarthak Prasad (Staff), Michele Guerra (Staff), Paul Slezak (Staff), Vaidehi Ambardekar (Student), Rhea Joshi (Student), Claire Rathslag (Student)

**Agenda**

AmpUp Presentation

General Overview

* AmpUp began in 2018 with a peer-to-peer platform (private chargers made public).
  + Most chargers were actually semi-private chargers (workplace/university parking), so most clients serviced are there.
* This operational model brings more revenue to the host (AKA UIUC) and is incredibly user-friendly and allows for multiple user frameworks.
* Most affordable option available on the market.
* Would give UIUC an additional discount.
* Direct competitors include EV Gateway, Greenlots, EVgo, etc.
  + ChartPoint is an indirect competitor.
* Operate wherever there is a local installer (hardware partner).
  + Have 15 hardware partners (across Australia, Singapore, Europe, North America, South America, etc).
  + Work with many PPC certified charger manufacturers to incorporate charging system; can switch between charger types with relative ease.
  + Currently deployed to retail, hotels (Hilton Holiday Inn), public libraries, places of work, museums, universities, hospitals, multi-unit dwellings, etc.

AmpUp Use Demo

* Mobile app allows for spontaneous and reservation system for charging, utilizes QR code based registry, and has integration with Yelp.
* Supports both AC and DC charging
  + AC long-term (more flexible limit) charging.
  + DC short-term (30 min limit) charging.
* Various payment methods available (Apple/android pay).
  + For UIUC, students would be able to use their iCard to pay.
* Payment settings can be set to tiered (different charges per hour based on either energy usage or time used.
* Access Codes (less secure way to differentiate users and control use) can provide special charging pricing options as determined by client.
* User groups (more secure way to individually confirm users and control use) can provide special charging pricing options as determined by client.
* Campus fleets have low mileage per day so they would need charging way less than passenger fleets.
* Their goal is to track fleet metrics (what route, how charged is the vehicle, etc) and to provide flexibility for a client to open up the charging to the public during the hours where use isn’t required.
* Launching pilot in St. Louis, MO. Vehicles and chargers will be shared, so real-time telemetric data can be pulled from the vehicles.
  + Can track, in real-time, the location and charge level of the fleet vehicle.
* A user can track the use statistics by creating an account.
* Provide monthly usage reports with various conversions.
  + Currently, the reports do not account for differential energy production practices.
* iSUN Energy Hub Solar Panels is a partner with AmpUp.
* EV charging is becoming a more lucrative/accessible addition in a property management context.
* Time Demand Management and Load Management options are available in the AmpUp interface.
* PlugShare is more of a review/reliability source, whereas AmpUp’s system allows for the integration of much broader data collection.
  + AmpUp also features other charger varieties.
* SWATeam will set up second meeting to discuss university plans for EV.

**Did not cover** Recommendations

* SP20 submissions
  + [Carpool Survey](https://icap.sustainability.illinois.edu/project-update/trans012-carpool-survey-submitted)
    - Submitted
    - iWG will discuss at next meeting
  + [UI Ride Survey](https://icap.sustainability.illinois.edu/project-update/trans013-ui-ride-survey-successful)
    - Successful
    - Waiting for contact from Mohamed Attalla/F&S to proceed once UI Ride resumes.
* What recommendations would you like to see?
* What objectives would you prioritize?
* What are you worried about?
* What are you excited about?
* Submit your own [SWATeam Recommendations Wishlist](https://forms.gle/Sw8LNhyAThwvRDxe8) prior to the meeting
  + [SP20 Submissions](https://uofi.app.box.com/file/714754437556)