

PPS Electric Vehicle (EV) Interest Survey Results

Summary

Between February 24 and March 9, all PPS staff were invited to take an anonymous Electric Vehicle Interest Survey. Highlights of the survey results include:

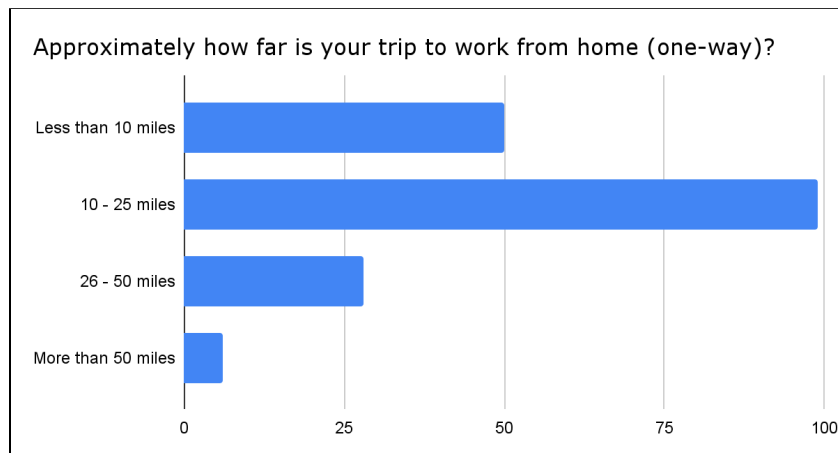
- 48% of respondents expressed some interest in purchasing or leasing an electric vehicle in the future
- 14 respondents reported already owning an electric vehicle
- 56% of respondents agreed that the district should seek grants and funds to bring EV charging to employees
- 46% of respondents agreed that having access to an EV charging station at work would increase the probability that they would purchase an EV in the future

Audience Characteristics

A **total of 183 persons** responded, with reasonable distribution throughout the PPS buildings where they park:

- Princeton High School: 70 responses
- Princeton Middle School: 30 responses
- Community Park Elementary: 19 responses
- Johnson Park Elementary: 19 responses
- Littlebrook Elementary: 14 responses
- Riverside Elementary: 12 responses
- Valley Road Administration Offices: 19 responses

While 27% of respondents live within less than 10 miles, the remainder is commuting more than 10 miles, as demonstrated by this chart.



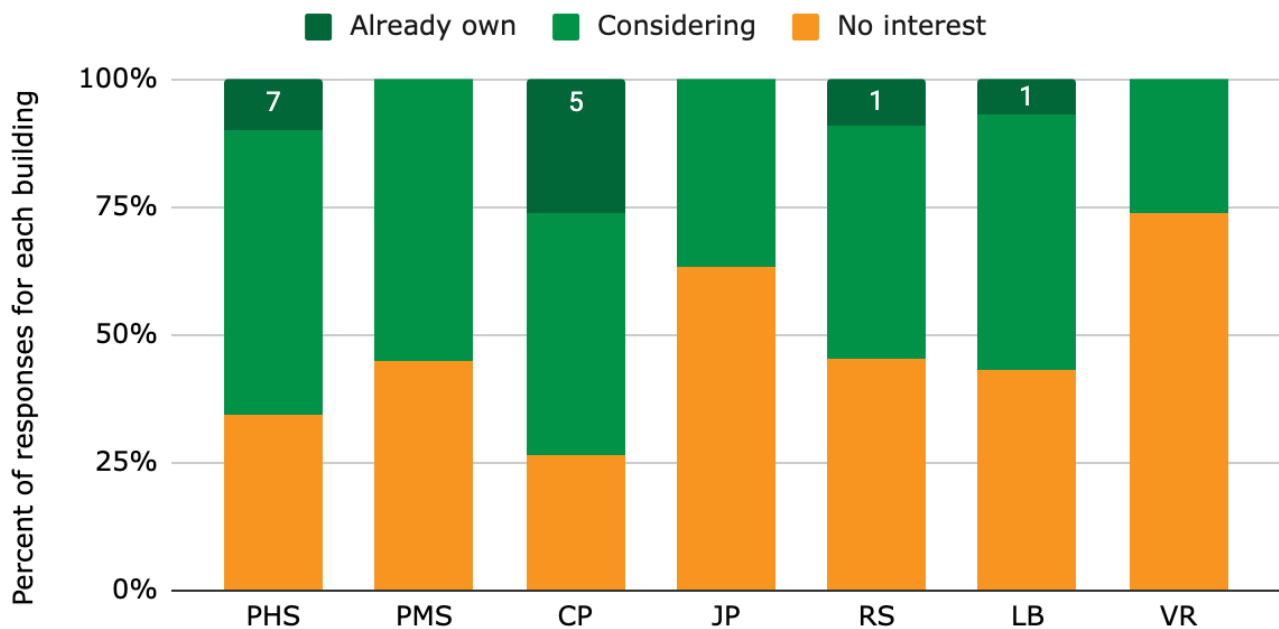
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Most respondents keep their vehicle parked throughout the day (83%), with only a few moving once (10%) or twice (7%) per day.

Most of the respondents do not currently have access to EV charging at their residence (91%), and 23% reported being unable to have a charger installed at their residence.

Staff interest in obtaining a personal electric vehicle was largely split down the middle, with 48% of respondents expressing some interest in purchasing or leasing an electric vehicle in the future and 44% expressing none. Another 8% (14 respondents) reported already owning an electric vehicle (see the following graph for their locations). When broken down by school, staff at some locations (e.g., CP and PHS) expressed more interest in obtaining an EV, while staff at other locations expressed less (e.g., VR and JP).

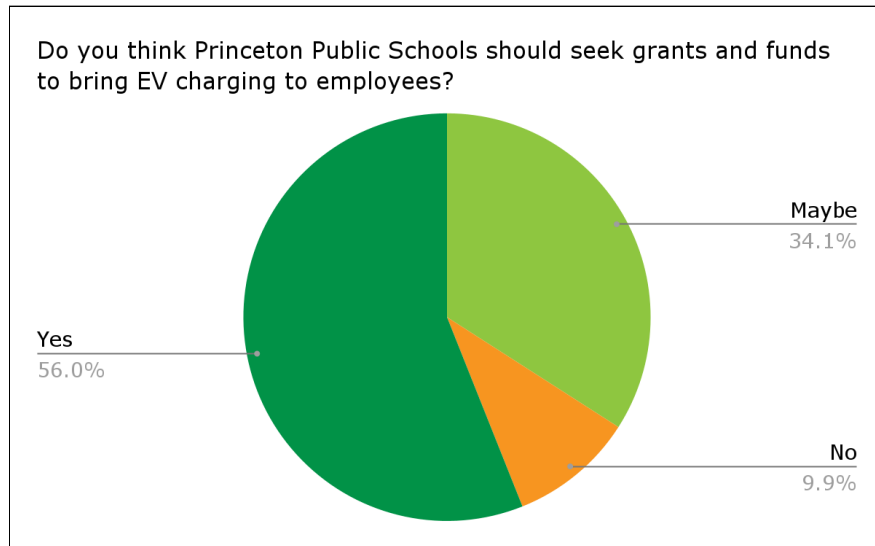
Do you own or are you considering purchasing or leasing an EV?



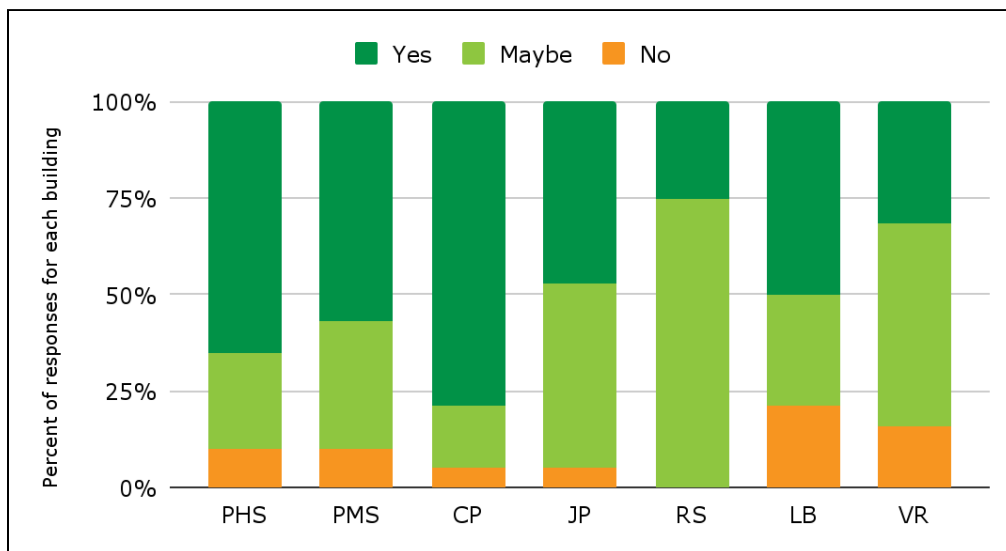
Interest in EV Charging

As shown in the following graph, **there was strong support for the district to seek grants and funds to bring EV charging to employees.**

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Strong support was noted at every school. Opposition was noted at most locations, but even at its peak (e.g., at LB), it never exceeded 21% of the respondents at any school. Based on the comments at the end of this document, *this opposition appears to be rooted in concerns with whether there is sufficient parking to allow EV-only spaces, as well as general concerns regarding EV technology.*



There was strong support that this initiative would increase the likelihood of staff obtaining an EV. The largest group of respondents (46%) fully agreed that having access to an EV charging station at work would increase the probability that they would purchase an EV in the future, while another fourth agreed that it *might* increase this probability (26%). The remaining 28% noted that it would not increase these odds.

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Finally, a majority noted that if PPS had electric vehicle charging facilities they might be willing to pay a reasonable charge fee (56%). The other half reported that they would not (44%). *This data combined with the comments on fees, suggests that further education is needed to explain the charging fees.* The goal is to position these fees so that they cover both the cost of the electricity and the annual subscription fees for the charging stations, but are still less than what a typical car owner pays for gasoline.

Comments from Survey Participants

Respondents were invited to share any other thoughts with us, and these comments are grouped below:

- Support for workplace charging:
 - One problem with EVs is an inability to charge at home. If we were able to charge at work, this would allow an EV purchase!
 - I've had a plug-in hybrid for almost a year now and would LOVE, LOVE, LOVE a charging station the high school!!!
 - If the district can help with obtaining subsidies for staff to purchase EV's, this would significantly increase participation in the potential program.
 - I drive a 2013 plug-in Prius hybrid 20 miles to school each day. It goes about 12 miles on a 2-hr charge. I would love to charge it at school, but the math just doesn't work out if I pay the going rate to charge it. I get 55mi/gal at 3-something for gas, so a 2 hr charge is worth less than a dollar. Unfortunately I rent an upstairs apartment so don't expect to be able to charge my vehicle at home any time soon, but would love to charge it at school if it made financial sense.
 - EVs are appealing to me but I am not planning on a new car for several years.
 - I purchased a vehicle last month. I really wanted to purchase an EV, but due to the lack of charging stations at PHS, I could not fathom getting an EV. Therefore, I purchased a hybrid. Having charging capabilities at work would exponentially increase my likelihood of buying an EV.
 - Free level 2 charging stations would be nice.
 - Since I have a charging station and solar panels at home, I'm less likely to use a PPS charging station if there is a fee. But it would be great fo those that could only slow charge at home, or who lived in an apartment or condo and couldn't charge at home.
 - If a majority of PPS employees need an EV charging station, then I support seeking grants and funds.
 - Thank you so much for doing this! I am a proud Tesla owner. Once in a while my charge is lower than I'm comfortable with and would greatly appreciate an EV charger at my school.
 - If I needed a new car in the next few years, I'd look to buy electric, but right now, with money tight, I'm hoping to drive my car until I can't anymore.

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- I'd be willing to pay for a charge as long as it was fair market value.
- My husband has an electric vehicle and I could drive it to work some days when he's at home.
- It would be great to have these options
- It's great that you're considering this.
- I would not purchase an EV automobile because there is no charging station currently at PHS, or in district, anywhere.
- With the increased price of gas, I am sure it will be something many staff will look into
- Most EV's have at least a 200+ mile travel distance per charge, even if you have an extended 100+ mile round-trip to work (that's very high but not unheard of) - a charged EV can easily make the round trip without needing to charge much at the work location. It's great peace of mind though to know that it would be readily available! The Condo unit where we stayed before had a Key-pad at each station & you would put it your # to start charging and then you would be charged your fees according to your usage as opposed to a flat fee. That makes much more sense.
- Thoughts about parking:
 - Parking at PHS is already extremely difficult; if cars needed to rotate parking at a charging station-we'd need spaces to rotate to-and that might pose a problem. However, I'm excited about the possibility of EV grants for car purchasing and charging at PHS.
 - Unless you can create new spaces (and where would these go?), this will make a bad parking situation even worse.
 - We need more staff parking at all of the schools.
 - I would think the district would need to figure out a way to secure the chargers so that neighbors or non-PPS people would not find and use them (even at night and the weekend).
 - Ample parking would be nice.
 - Installing charging stations will occupy parking spaces that can only be used by electric vehicles. Could cause parking issues if they are not occupied by vehicles.
 - EV charging stations usually get the best location (Please don't do this.). Nice if you can afford an EV. If you can't, it's just sticking it in your face that you are second class. There's enough of that already in this town.
 - Wonderful idea- we currently have quite the parking issue for staff at PHS. Questions that arose for me was where would charging stations be placed and would that create more of a traffic/ parking issue? Would there be enforcement such that only staff could use those particular charging stations?
- Thoughts about fees:
 - If you are going to have charging facilities, in no way should we be paying for them. Most, if not all, companies (both corporate and not) have FREE charging facilities.
 - If charging stations are installed the user should absolutely have to pay for the service. This is not a cost that should be shouldered by the taxpayers.

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- As a taxpayer I DO NOT want my tax dollars to go towards charging cars. Use that money to hire more teachers.
- As long as the "reasonable" Charging fee was truly that - a "reasonable" fee!
- Concerns about electric vehicles or charging stations:
 - The cost of a new, electric vehicle is not in my budget.
 - Electric vehicles are ridiculous. All this wind, electric, solar is a pipe dream. People haven't figured out long term issues dealing with these form of energy.
 - Also, these vehicles are so expensive right now-even more so with car prices as they are.
 - I am concerned about the lack of laws governing process of recovering the toxic precious metals used in the batteries that run electric cars.
 - I think district resources should be put toward other \$ saving and sustainable initiatives.
 - I really dislike that EVs need so much propping up with taxpayer dollars.
 - How about fixing the schools and bring the internet up to modern day standards before thinking about installing charging stations. Also, the district doesn't pay me enough to afford an electric vehicle
 - I think there should be a focus on improving buildings and facilities, such as cleaning, improving technology, providing loner laptops, changing blackboard to whiteboards and so on before something like this is even thought of.
 - My husband owns one and still not convinced It was a good desicion. Range is greatly reduce during winter months and you'd still need a gas vehicle for longer trips.
 - Electric autos are way to expensive! In the long run, electric is not good for the environment because you burn coal, it's very deceiving.
- Support for other sustainability initiatives:
 - I would like to see the district explore options for electric buses.
 - Any way that PPS can continue to "reduce its carbon footprint" should be encouraged!!! We should continue to be in the forefront of new educational developments, paving a way forward for environmental equity also. Would it be more environmentally friendly to have an electric-powered bus or semiautonomous vehicle pick up large groups of concentrated faculty and staff to reduce the number of cars needed and on campus, as Rutgers University makes available buses between its various campuses to, in part, reduce some of the need for cars on its campus. Preserving as much of the greenway and providing as many environmentally-friendly options as possible should be encouraged.
 - WHY NOT REWARD PEOPLE/STAFF THAT BIKE, WALK OR CARPOOL INSTEAD? How? Covered bike stations, free lunch or food for every 5 trips or whatever.