



EV Charging Station Survey Results November 2016

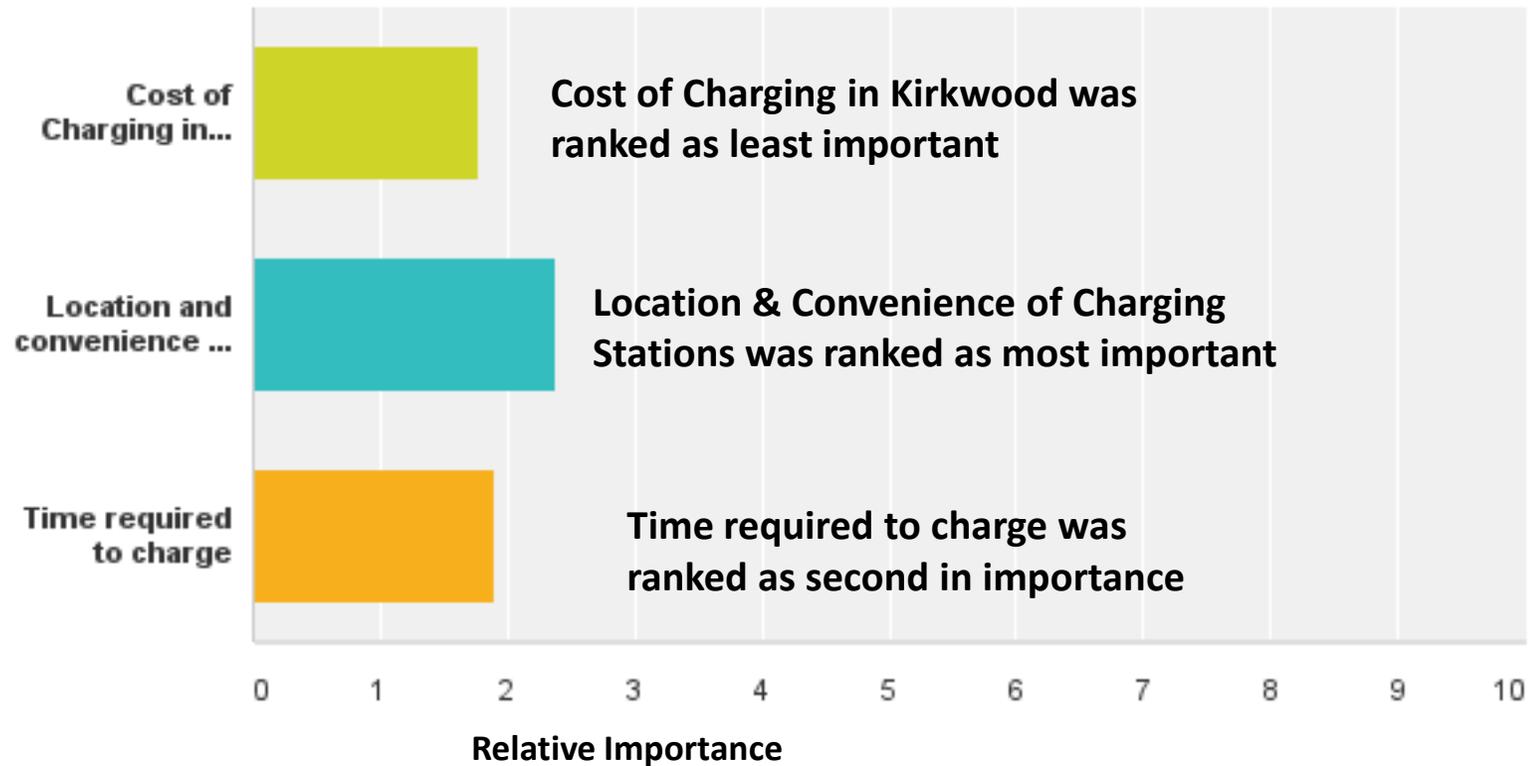
- The District is exploring the future of vehicle charging stations in Kirkwood.
- A survey designed to obtain feedback from valley homeowners will guide the District on how to proceed.
- A link to the short survey was provided to customers on October 15, 2016.
- 187 responses were received from the community, a 32% response rate, which is excellent.
- Thank you to all who participated.

Q23 What do you see as the District's role in the Kirkwood community relative to vehicle charging stations? Please check all that apply.

- 173 responses were received for this particular question
- 46.24% (80): To educate and advise the community
- 43.35% (75): To provide meters and power to Vail Resorts to manage charging stations
- 41.04% (71): To install a charging station on District property near the Community Services Building and charge based on a cost per Kwh
- 38.15% (66): To provide meters and power to the HOAs to manage charging stations
- 31.79% (55): To install a charging station on District property near the Community Services Building along with a meter where you pay a dollar amount by the hour while your vehicle is charging
- 09.83% (17): Other

Q24 Rank the following for importance to your decision to drive an EV or PHEV to Kirkwood.

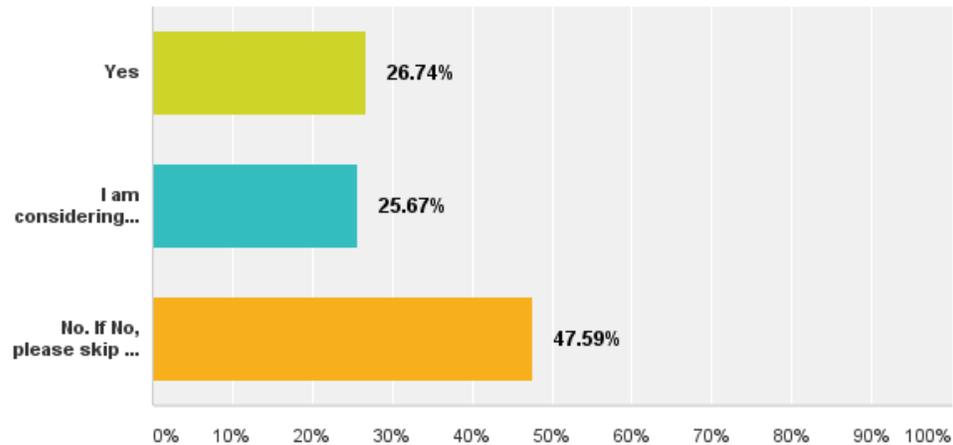
Answered: 142 Skipped: 45



Population Owning or Considering the Purchase of an EV or PHEV

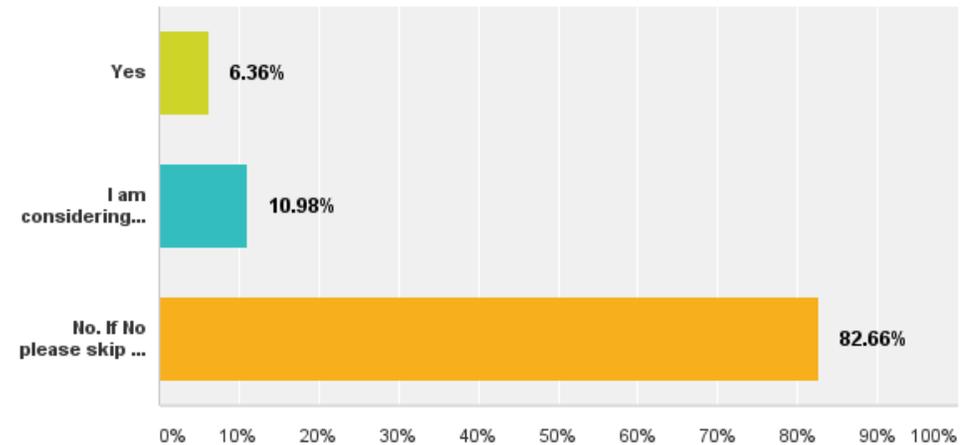
Q1 Do you own one or more battery electric vehicles (EV)?

Answered: 187 Skipped: 0



Q11 Do you own one or more plug-in hybrid vehicles (PHEV)?

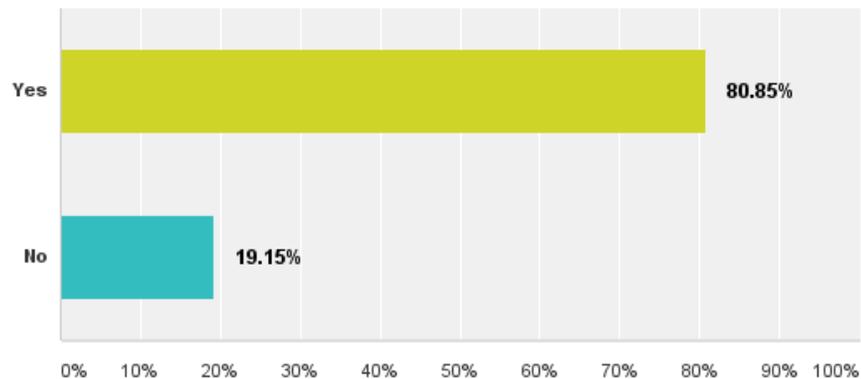
Answered: 173 Skipped: 14



Would having a charger in the valley influence driving your EV or PHEV to Kirkwood?

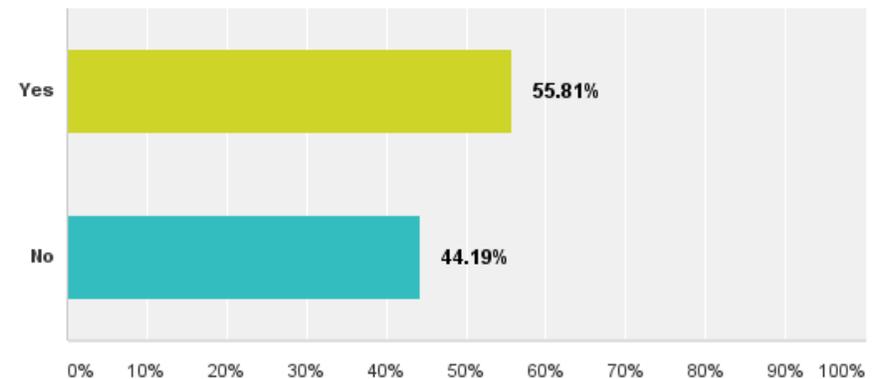
Q4 If you do not currently drive an EV to Kirkwood, would you consider driving one to Kirkwood if there was a charger in the valley?

Answered: 94 Skipped: 93



Q14 If you do not currently drive a PHEV to Kirkwood, would you consider driving one to Kirkwood if there was a charger in the valley?

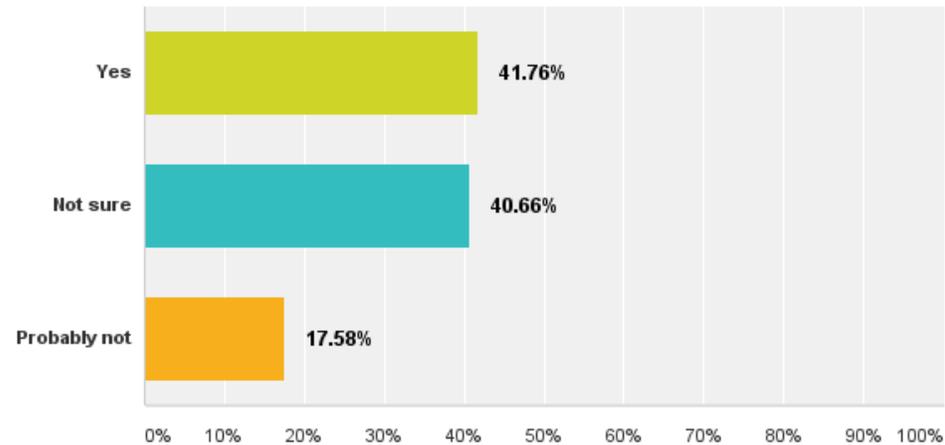
Answered: 43 Skipped: 144



What type of charger is sufficient?

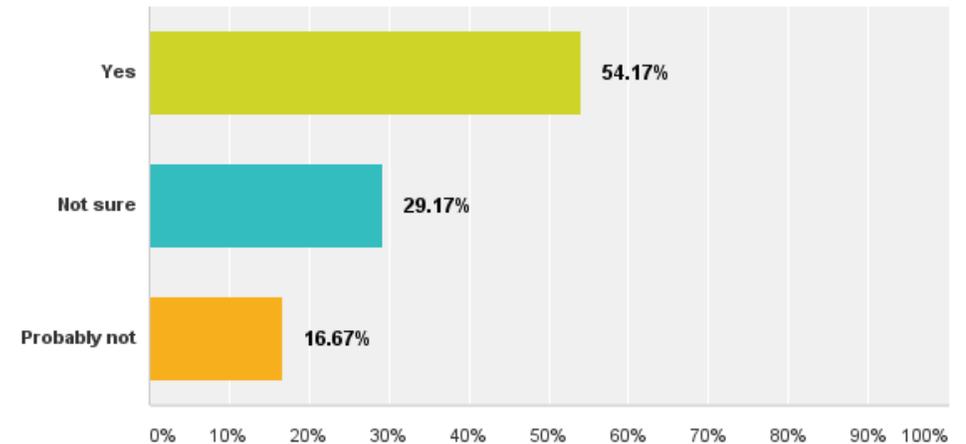
Q8 Do you believe that a level 2 (240 Volt/50 Amp) charging station in Kirkwood would be sufficient to meet your EV charging needs?

Answered: 91 Skipped: 96



Q18 Do you believe that a level 2 (240 Volt/50 Amp) charging station in Kirkwood would be sufficient to meet your needs to charge your PHEV?

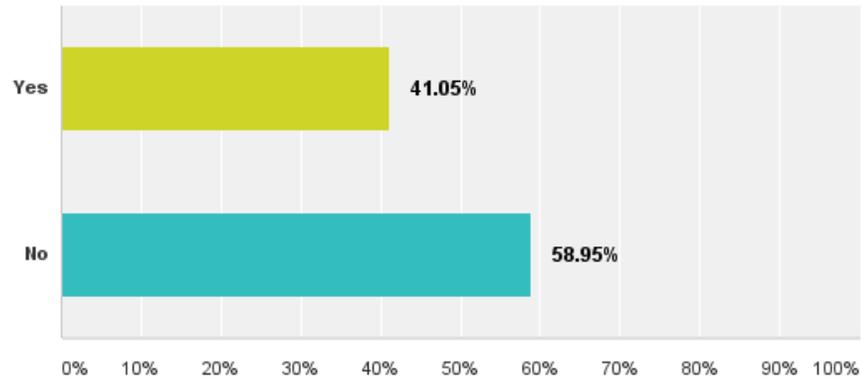
Answered: 24 Skipped: 163



Is the cost to charge important?

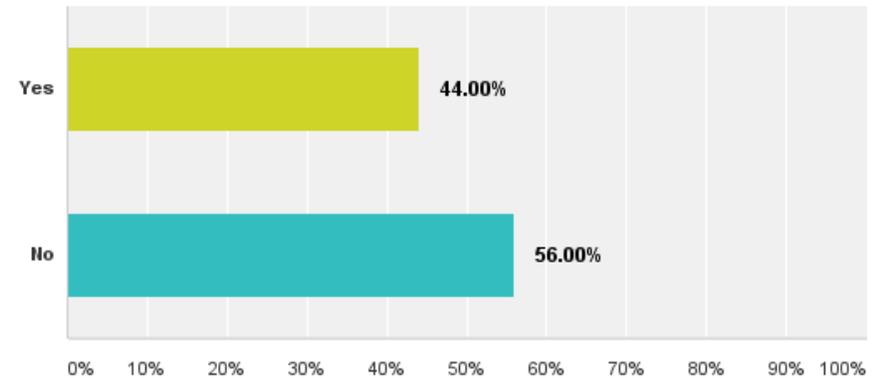
Q10 If the cost to charge your EV was higher in Kirkwood than elsewhere, such as at your other home, would the cost in Kirkwood negatively influence your decision to drive your battery electric vehicle to Kirkwood?

Answered: 95 Skipped: 92



Q20 If the cost to charge your PHEV was higher in Kirkwood than elsewhere, would the cost in Kirkwood negatively influence your decision to drive your electric vehicle to Kirkwood?

Answered: 25 Skipped: 162



Comments were very helpful

- I hope the District can use data gathered through this survey to influence Tesla to put in a Supercharger Station in the travel line from the Bay Area to Kirkwood. Some place like Jackson or Stockton would do the trick. I hope the District will take a lead role in enabling electric vehicle usage in the community. I think electrics are a significant part of the solution to global warming, and Kirkwood's viability as a community depends on effective climate action (both wildfire prevention and adequate snow pack for business model)...so we have real motivation for real action.
- Be sure that ALL costs are covered by the charger users, and NOT by normal rate payers.
- Negotiate with a third party provider such as ChargePoint - let them assume capital and operational expenses.
- Install an EV Charging Station, such as a Tesla Supercharger to promote clean energy usage in the valley, as well as attract new EV enthusiasts to Kirkwood in all seasons. Providing this service has multiple benefits, including strong support of the environment and promoting the Kirkwood community as environmentally-minded. Of note, most major ski resorts are currently providing this service, and it would be a mistake to not offer the service and potentially exclude the EV driver from your community.
- The best alternative would be to get Tesla to install a Supercharger station on district property. All other such current stations are free. At 60 cents per kilowatt hour they would probably require some means for user to pay by the kWh. It would be worth it to me to be able to drive my EV's to KWD and get charged in an hour.

More Comments...

- For Bay Area drivers, plug-ins are really not a viable option for travel to Kirkwood without charging stations. Of course, good for the environment but the question is who pays for it. I feel strongly that we should only pursue business models that are fully funded without any District resources. Resources should come from Vail, electric vehicle owners, and those private properties/HOAs that desire to have charging stations. If none are willing to step up with funding then the District should stay out of it
- With the growing purchase of EV, and now the all wheel versions becoming available there will be a growing need in the Kirkwood Valley. It's problematic and expensive for each HOA to install and maintain EVCS in the valley. Snow removal concerns, long cord connections, attraction to kids and animals, fire hazards if not maintained properly just to name a few are the challenges that will effect everyone in the Valley if there is no central development or requirements for EVCS
- Providing charging stations is very important to accelerate the growth of clean vehicles. Not listed on your questions--was whether to approach TESLA for a supercharger at Kirkwood--this would be the best! Mammoth Lakes has one. I think the ideal place is next to gas station on HWY 88, people can eat at the Kirkwood Inn--open year round--and charge up!
- Please install MULTIPLE stations; one will not be sufficient. At minimum stub out for future expansion, pending usage. DC fast charging preferred.

District Learning and Next Steps

- Communicate results to community in Newsletter, Community Notice or both
- Review survey results and comments
- Share survey results and comments with Vail
- Develop and communicate the plan with the community
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Thank you!

- We appreciate your comments.