



Pasadena Water and Power

Authorize Contract with Tesla for Arroyo Parkway Charging Depot

City Council

October 19, 2020

Item 24





Recommendation

Pasadena Water and Power

- **CEQA Exemption:**
 - > Section 15061 (b)(3) - the "General Rule"
- **Authorize an Agreement with Tesla**
 - > Tesla to install and operate 20 Tesla Superchargers
 - > Initial term of five years
 - > Additional 2 additional five-year extensions by mutual consent
- **Authorize Payment to/Reimbursement from Tesla Up to \$125k for Shared Project Expenses**
- **Grant Proposed Contract a "Best Interest" Exemption from Competitive Selection Process**



Types of Electric Chargers

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Type	Level 1	Level 2	DCFC
Voltage	120 VAC	240 VAC	480 VAC
Electric Load	<1.4 kW	4 - 8 kW	50+ kW
Charging Time For 60 miles	12+ hours	2 - 4 hours	10 - 30 Minutes
Standard Charging Ports	J1772, Tesla		CHAdeMO, SAE Combo, Tesla





Background

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- Pasadena Policies Encourage and Promote Transportation Electrification
- Convenient EV Charging Stations are Needed
- Parking Lot at Broadway Power Plant
 - > Excellent location adjacent to Arroyo Parkway (110 FWY) attracting EV drivers south of Pasadena borders
 - > Visibility will increase EV awareness
 - > PWP plans to install both DC Fast Chargers (DCFC) and Level 2 Chargers to serve all EV types
 - > PWP secured \$280,000 grant funding for DCFC
 - Requires project completion by June 2, 2021



Tesla Marengo Partnership

Pasadena Water and Power

- **Successful Marengo Charging Plaza Partnership with Tesla**
 - > Shared costs/economies of scale
 - > Attracted national attention, public/private partnership
 - > PWP saved approx. \$200k in construction costs
 - > Strong utilization: 5,000 to 7,000 sessions/month



Broadway Plant Parking Lot

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- Excellent location adjacent to Arroyo Parkway (110 FWY) attracting EV drivers south of Pasadena borders
- High Visibility, next to 110FWY
- ~150 Parking Spaces
 - > Underutilized lot
 - > EV Charging will Utilize ~40% of the Lot
- Access is Limited: East-bound Glenarm Traffic
 - > Information and wayfinding signage contemplated

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Arroyo Pkwy Charging Depot

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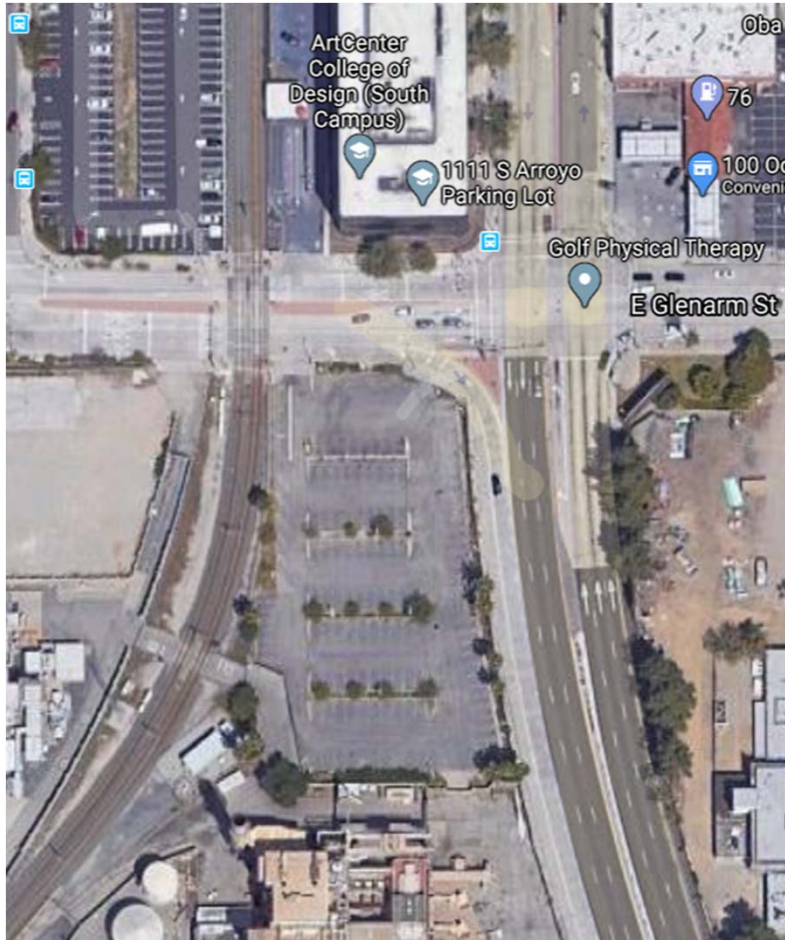
- **PWP to Install and Operate**
 - > 7 Universal DC Fast Chargers (50kW or 175kW)
 - > Up to 20 Level 2 Chargers (7 kW)
 - > Electric Service Infrastructure
- **Tesla to Install and Operate**
 - > 20 Tesla 250 kW V3 Superchargers
 - > Higher Charging Speeds than Marengo
 - > Will Include 6 Spaces for new Cybertruck
- **Security Cameras, Wi-fi, Improved Lighting**





Broadway Plant Parking Lot

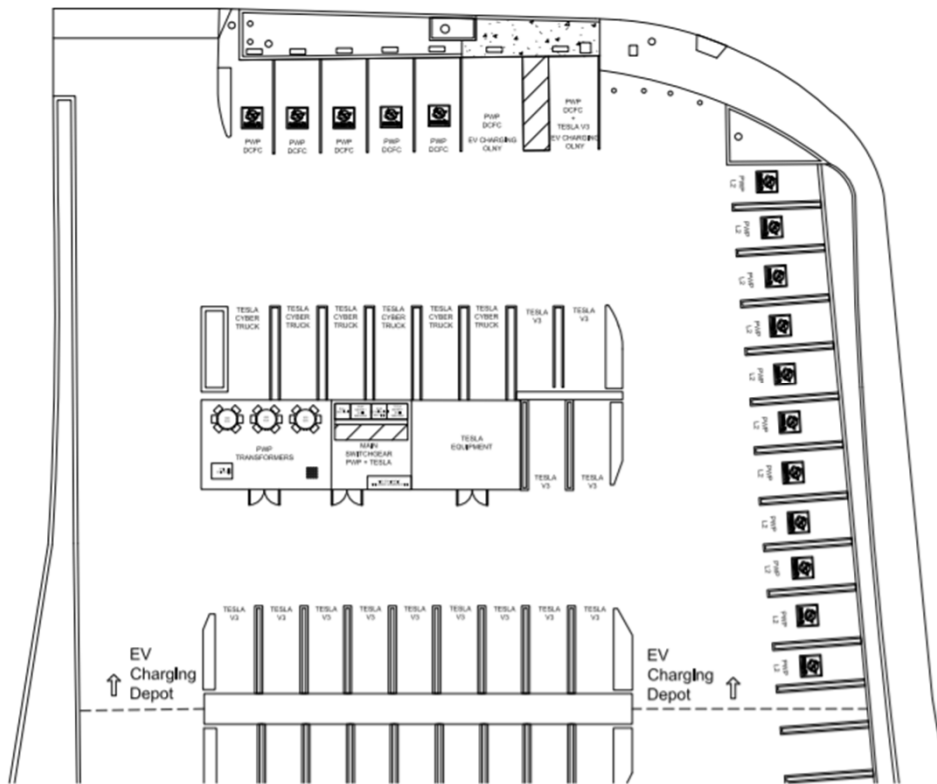
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Arroyo Pkwy Charging Depot

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Tesla will pay for surface improvements in the charging area

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Project Concept Renderings

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Project Concept Renderings

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Tesla's Obligations

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- **All Costs Related to Tesla EV Chargers**
 - > Installation, construction
 - > Ongoing operating costs
 - > Electric bills for Tesla EV Chargers
- **Pay or Share Cost of Lot Improvements**
 - > Pay estimated \$100K costs of improvements for entire charging area, including resurfacing, paving, stripping, demolition
 - > Share (50/50) up to \$250k estimated costs of upgrades including lighting, wi-fi, signage, cameras, access to the lot



Shared Costs

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- PWP and Tesla to split costs (50/50) for lot upgrades that benefit both parties and charging station users
 - > Lighting improvements, communications, signage, etc.
 - > Estimated total cost up to \$250k for common work
- PWP and Tesla will each perform portions of common work to save on costs
- At the end of project, common costs will be trued up and party that paid less will reimburse to party that paid more
- Net amount of reimbursement not to exceed \$125K



Estimated Cost and Funding

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- PWP'S Estimated Project Cost \$1,250,000
 - > Sufficient funding in CIP #3225
- CIP Revenue Sources
 - > Secured \$280,000 "SCIP" grant
 - > Prelim. Estimated ~\$250k Underground Surtax Fund for underground system work to serve site
 - > Remainder from LCFS revenues as part of Light and Power Fund balance
 - > No funding from electric rate revenues



Recommended Access Routes

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Questions

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Partnership Financial Impact

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- PWP expects to save approximately \$165,000 to complete the project by partnering with Tesla
 - > Tesla to fund ~\$100K in surface improvements
 - > Tesla to fund ~\$125K of shared costs
 - > PWP will incur extra \$60K to upside electrical service for Tesla
- City will benefit from electricity sales to serve Tesla Superchargers and associated taxes and surcharges
- Potential indirect benefit from additional adoption of EVs by PWP customers