



Arts & Innovation

DC Fast Charger Installation at City Hall

Board of Public Utilities
September 4, 2015

Outline

- What is an EV DC Fast Charger?
- EV Charging Stations in Riverside
- SCPPA Grant and Costs
- 16 Month DC Fast Charger Pilot Project
- DC Chargers in the area map and City Hall
- Charging station installation photos
- Ribbon cutting ceremony
- Recommendations

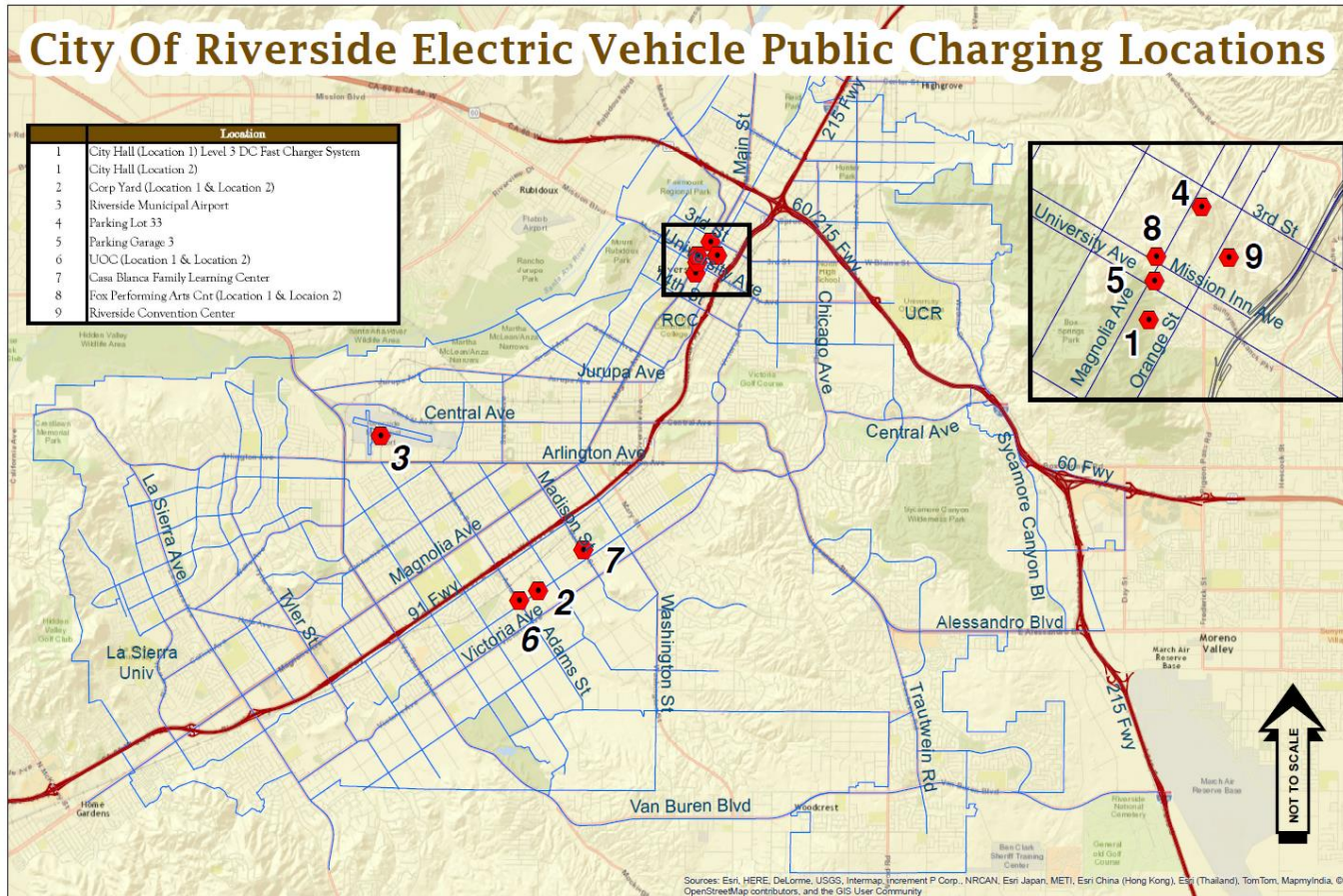
What is a DC Fast Charger?

- A Direct Current (DC) Fast Charger supplies electric energy for the recharging of Electric Vehicles (EV)
- Produces a high power output while maintaining efficiency
- Depending on EV, it may take 20 to 30 minutes to charge a low battery state

What is a DC Fast Charger?

- User friendly and safe
- Displayed battery charging state and automatically completes charging
- Equipped with friendly kiosk interface and communication options

Charging locations in Riverside



EV Charging in Riverside

- Since 2011, the City has installed charging stations in support of Seizing Our Destiny “Becoming a Green Machine”
- Installed at various public sites, including two level 2 charging stations at City Hall
- Utilities play an important role in the adoption and supporting EV charging infrastructure
- EV sales continue to increase in the area

EV Charging in Riverside

- City offers EV rebates to promote EV infrastructure adoption
- Cities like Los Angeles and Anaheim have incentives for supporting EV charging stations
- EV charging stations increase awareness of the benefits associated with driving an EV
- EV infrastructure is part of Riverside's future

SCPPA Grant and Costs

- Southern California Public Power Authority (SCPPA) received a \$500,000 grant from the California Energy Commission (CEC)
- Support EV infrastructure along a corridor from Los Angeles to Palm Springs
- SCPPA members participating include: Anaheim, Burbank, Colton and others
- Riverside share of grant was \$50,000

SCPPA Grant and Costs

- Grant will cover majority of the EV infrastructure installation costs
- RPU's share of capital cost will be covered by Greenhouse Gas (GHG) allowance proceeds
- Energy consumption charges will be reimbursed with Public Benefits funds
- Total estimated cost \$93,225

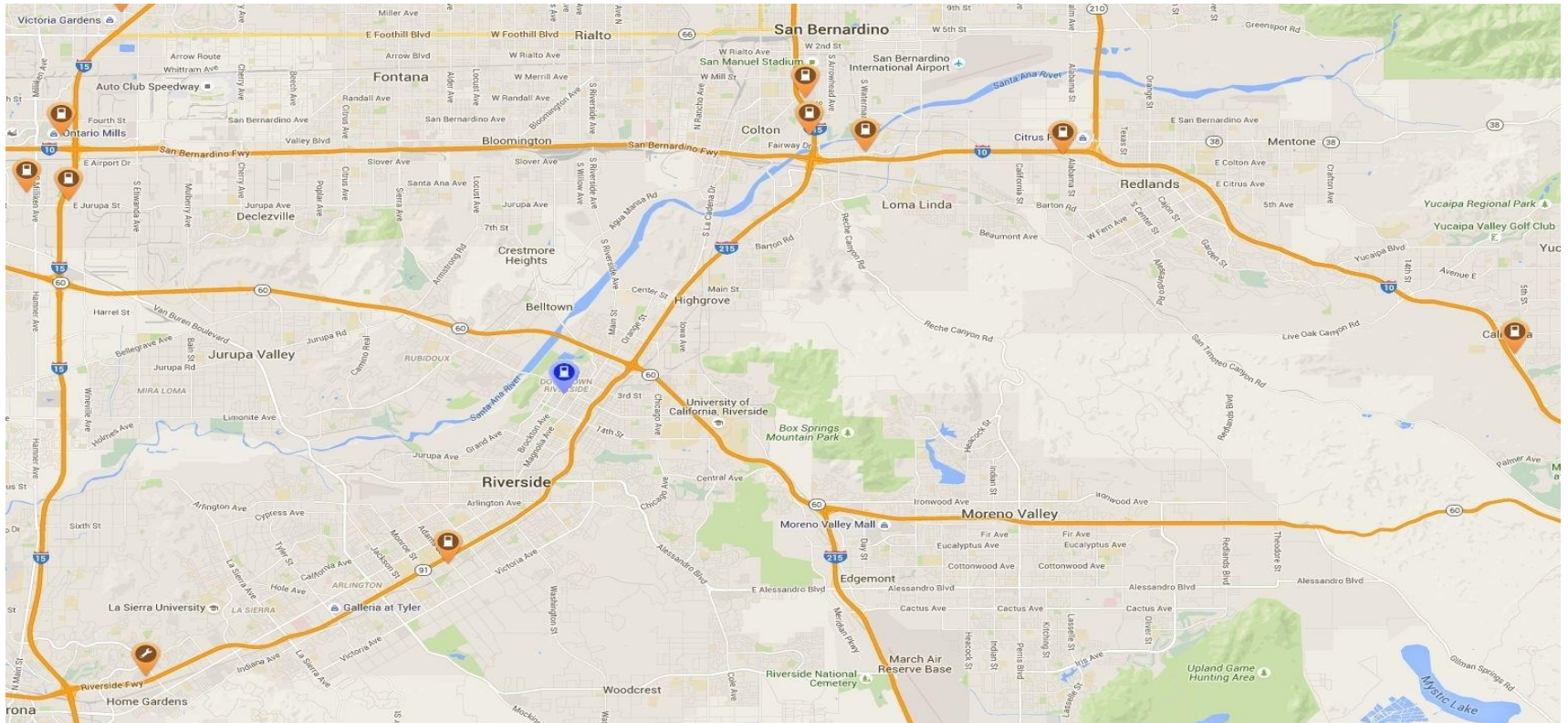
16 Month Pilot Project

- Pilot project to determine customer acceptance and impact on RPU's electric grid
- Support City policy to promote alternative fuel transportation and going green
- Install one DC Fast Charger for research and development of EV charging infrastructure
- Lower GHG emissions by promoting use of EVs
- Free charging for customers during pilot phase

16 Month Pilot Project

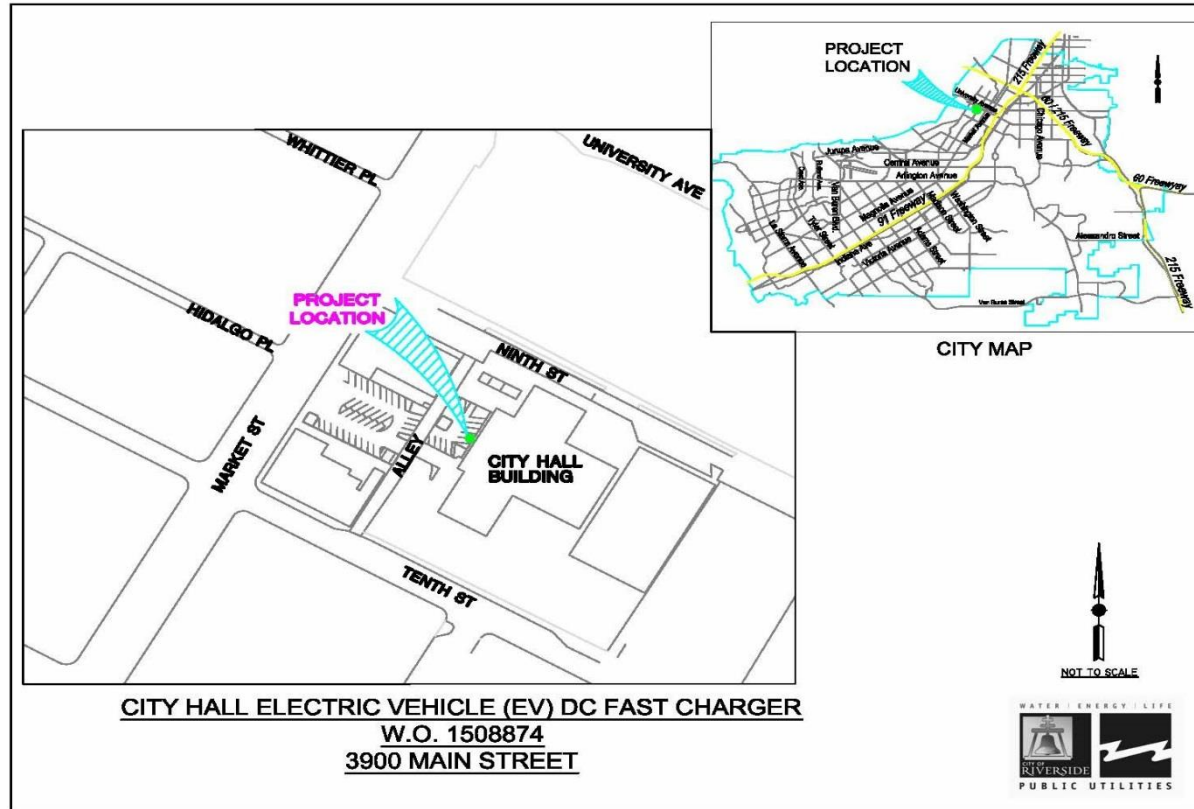
- Dedicated electric meter to track customer usage and electrical load information
- Encourage commuter and long distance travelers to stop in downtown Riverside
- Provide long distance trip travelers a stop for fast charging under 30 minutes
- After pilot phase, RPU will propose EV charging pricing

Other DC Fast Chargers in Region



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DC Fast Charger at City Hall



City Hall EV Fast Charger



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City Hall- Existing Level 2 Chargers



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New DC Fast Charger Interface



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Dual Connector



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Ribbon Cutting Ceremony

- Test and commission DC fast charger week of September 14, 2015
- Ribbon cutting ceremony on September 29, 2015

Recommendations

- Approve and recommend that the City Council accept the \$50,000 CEC grant through SCPPA
- Approve GHG allowance proceeds to fund RPU's share of capital infrastructure in the amount of \$28,225
- Approve Public Benefits funds to pay for energy consumption during pilot phase in the amount of \$15,000

QUESTIONS ?

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