## SMUD eFuel® Services

# **Commercial EV Advisory** & Installation



The SMUD eFuel Advisor program provides customized, comprehensive reports to customers, while SMUD eFuel Solutions offers full design and installation services for EV charging projects.









**Engineering and** site design

Procurement and installation

Commissioning and maintenance

- · Site and operations analysis
- Vehicle and infrastructure TCO
- Technology recommendations
- Detailed cost estimates

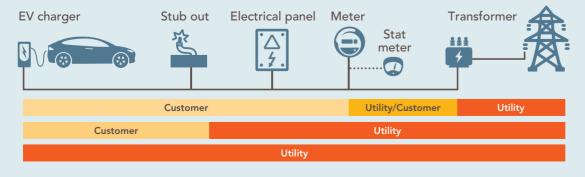
\*No cost to customers

Grant and incentive information

### Solutions

- Project design and quote\*
- Engineering and permitting
- Project management and construction
- Charger procurement
- Options for M&O, lease

### Advisor metrics Solutions pipeline 22% Reports 2022 **Projects with SMUD grants** 19 50% Reports by sectors 2023 21 Non-granted projects Percentage of reports created by different types of business Average number of AC or 2024 25 12/4 DC ports per project 7% \$27,000 \$300k Average cost per report Average expected project cost 14% Non profit Models of utility support for EV charging infrastructure



- 1. Standard utility approach
- 2. Utility make-ready program
- 3. SMUD eFuel Solutions



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### Report samples

### **Sacramento Food Bank**









### Solutions project

### **Nugget Markets**

**Scope:** Rip-and-replace 2x DC and 2x L2 public chargers

Project line item	Invoice amount
Chargers/Materials/Markup	\$143,495
Contractor install	\$9,576
Total project cost	\$153,071
% Below/Above budget	-15%



### Lessons learned —

- Find firms with experience/background in EV/EVSE
- Prime contractor should be doing most of the work (no middlemen)
- Right size vendor for the application
- Don't be overly prescriptive with product options allow flexibility.
- Consider design/build vs separate engineering contract
- Time and materials vendor costs can be more cost-effective than lump-sum
- Management of direct-install programs is labor intensive for utility PM



Next steps

- Pivot to web-based TCO tool for fleet and charger recommendations
- Offer site visits for select customers
- Refine eFuel Solutions install process

