

# International OpenADR Symposium

June 2019

San Francisco, CA

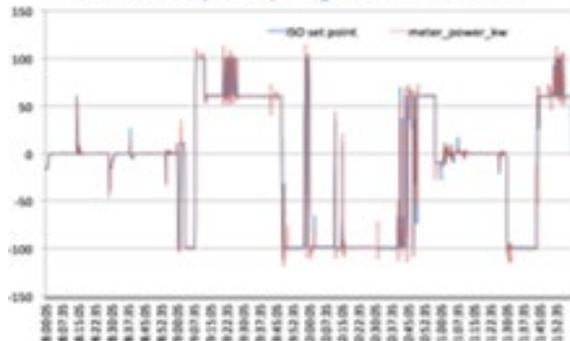
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# Past Energy Solutions Projects

## LA Air Force Base V2G Demonstration



LAAFB EVs Participating in the CAISO Frequency Regulation Market



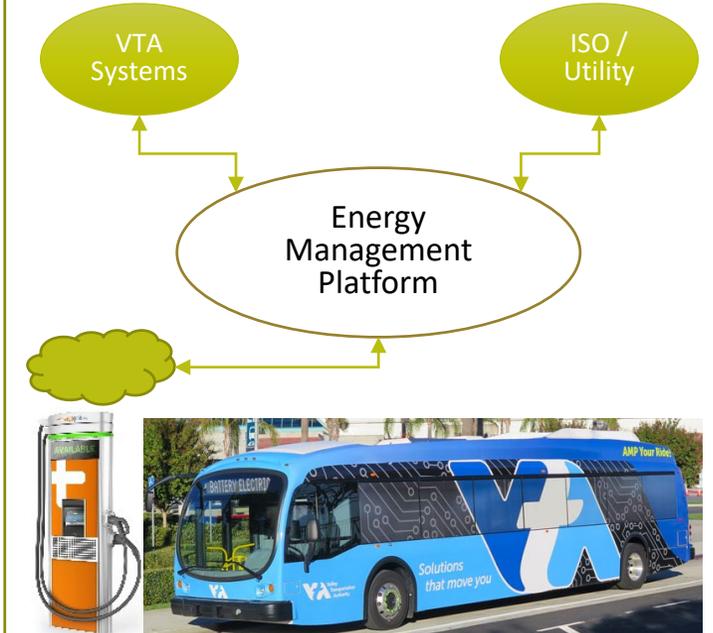
- Real time interface to the grid
- Bid vehicle load into grid management programs

## UCSD Fast Charge Microgrid Solar, Storage, & Charging



- Demonstrated demand management with charging, solar canopy, and second life batteries

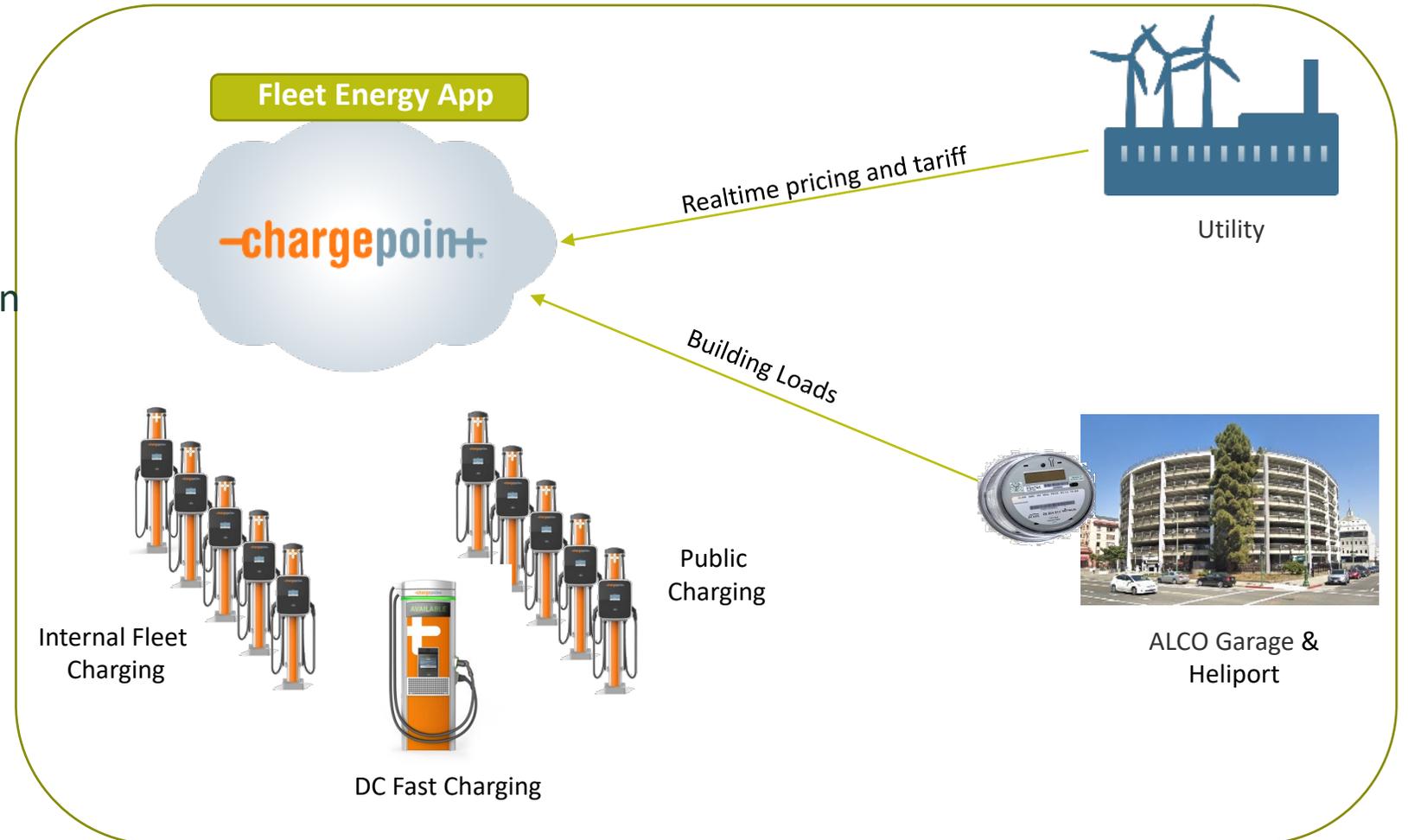
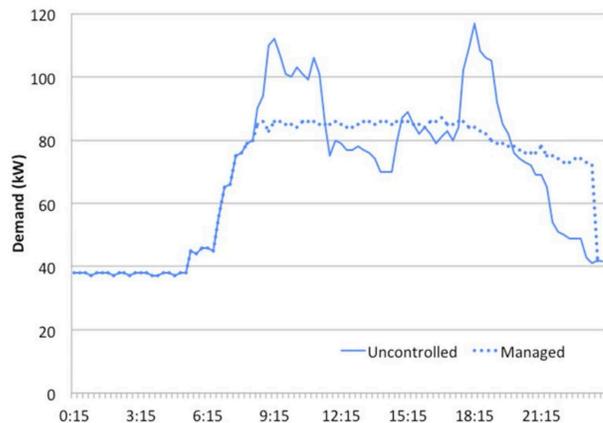
## Santa Clara Valley Transit Fleet Charging Management



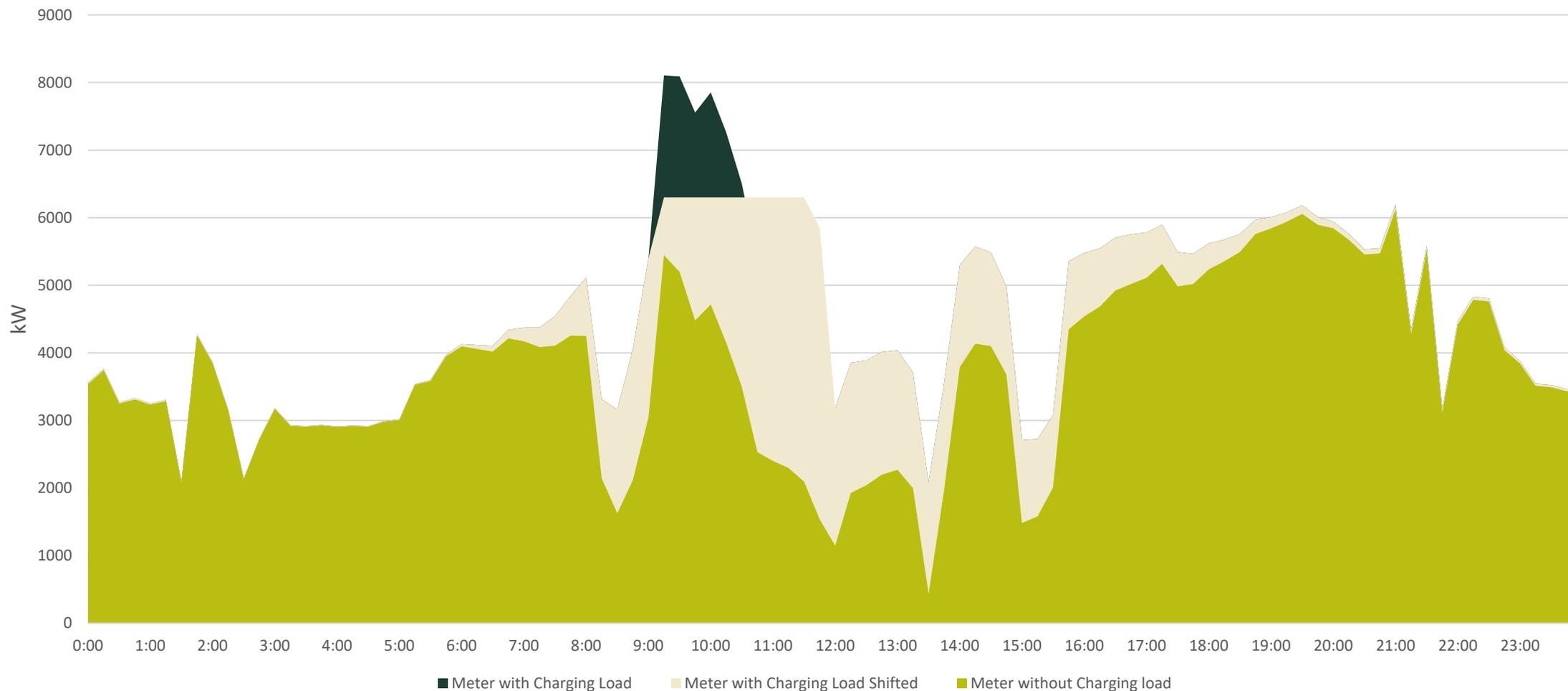
- Demand management through schedule optimization
- Bid vehicle load into utility and grid programs

# Alameda County Garage Charge Optimization

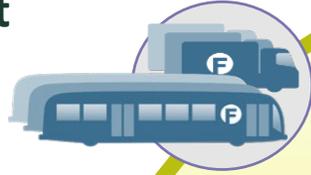
- Both public and private charging
- Level 2 charging and DC fast charging
- Worked with county on smart charging workflow
- Design and validation in conjunction with Berkeley National Labs



# Large Workplace load with almost 2 MW shifted



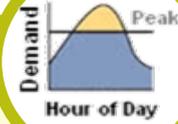
**Fleet Management**



**Solar & Energy Storage**



**Building Loads**



**Energy Optimization**



**eFueling Workflow**

**Power Management**

**ChargePoint Network**

**Station Management & Reporting**

**Depot Design**

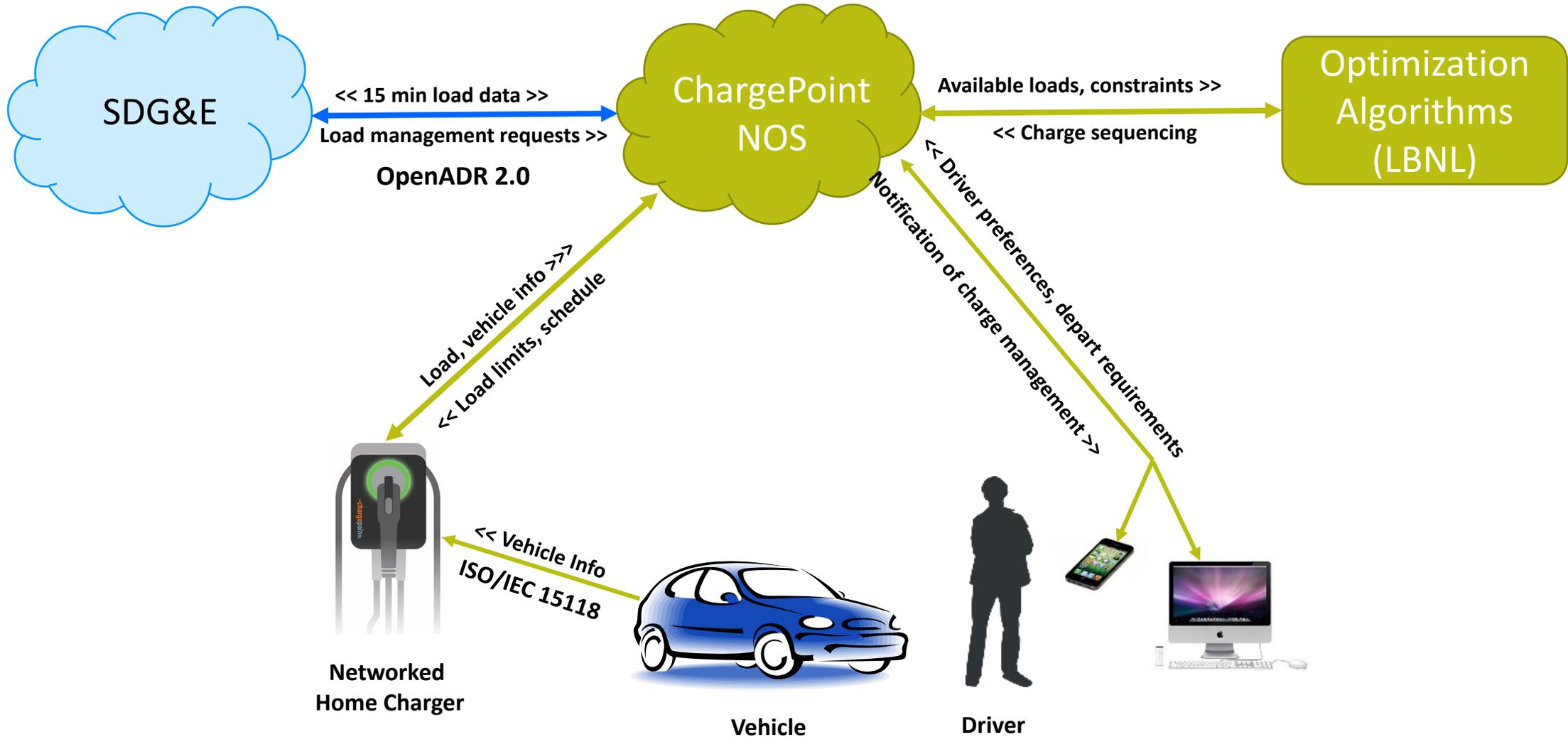


**Utility/DNO/TSO Grid Services**



**Energy Solutions**

# Program with SDG&E



# Program with SCE

