



# MICRO-GRID SOLUTIONS

FIRE HOUSE CASES IN FREMONT CA

# VERDEK MICRO-GRID SOLUTIONS



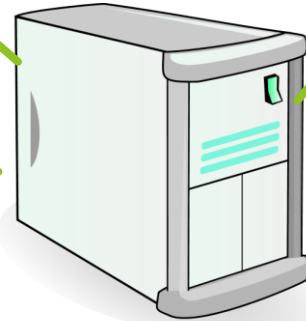
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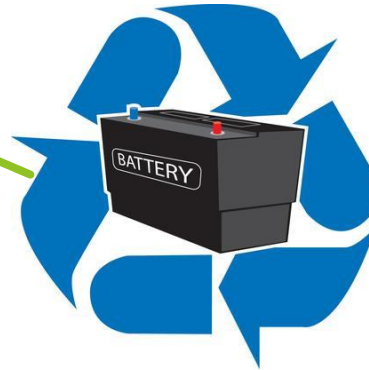
SOLAR PANELS



GENERATOR



GRIDScape  
CONTROL UNIT



BATTERY

# City of Fremont CA CEC Microgrid Awards

**Total Award \$2.4M**

## Proposed Sites

- Three Critical Facilities -Fire Stations in the City of Fremont

## Benefits

- 3 hour Renewable Energy Islanding in case of disasters
- 25%-50% of Net Energy Cost Savings
- Clean & Sustainable Energy



# CITY OF FREEMONT CA

## CEC Microgrid Awards

### **Fire Station #11**

47200 Lakeview Blvd  
37.5 kW parking canopy Samsung Lithium-ion  
Battery (~80 kWhr)

Average month usage: 64,131 kWh  
Annual Energy Produced by Solar: 52,300 kWh  
Annual Energy Offset: 75-80%

### **Fire Station #6**

4355 Central Ave  
37.1 KW parking canopy Samsung Lithium-ion  
Battery (~80 kWhr)

Average month usage: 97,600 kWh  
Annual Energy Produced by Solar: 52,300kWh  
Annual Energy Offset with Storage: 75-80%

### **Fire Station #7**

43600 S. Grimmer Ave  
43.4 kW parking canopy Samsung Lithium-ion  
Battery or IMERGY vanadium based flow  
battery (~80 kWhr)

Average month usage: 117,360 kWh  
Annual Energy Produced by Solar: 66,995 kWh  
Annual Energy Offset with Storage: 75-80%



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