

# SMUD Multifamily Program Technical Equipment Requirements

Mixed Fuel properties: Multifamily properties with 5+ units with electricity and gas consumption are eligible to participate in the program through the following: Convert (at minimum) one or both existing gas sourced mechanical system(s), domestic hot water and HVAC to all-electric heat pump solutions. Mixed fuel properties that install qualifying and incentivized Go Electric measures may also be eligible for additional supporting energy efficiency incentives.

All-Electric properties: Multifamily properties with only electricity consumption onsite and at which HVAC and DHW systems are already heat pumps are eligible for supporting energy efficiency measures.

Multifamily properties that choose to only participate in the program's Commercial Multifamily Electric Vehicle measures, may do so with or without the installation of qualifying building equipment measures.

Refer to SMUD Multifamily Handbook for additional program participation requirements.

Category	Sub-category	Existing Equipment Requirement – Go Electric	Existing Equipment Requirement – Energy Efficiency	Installed Equipment Requirement
HVAC	Residential-sized, ductless	Natural gas-fired furnace	Electric resistance heating or heat pump ≤13 SEER	<ul style="list-style-type: none"> <li>• Inverter-driven heat pump</li> <li>• Unitary (through wall) unit OR exterior compressor with one or multiple head units</li> <li>• ≥17 SEER (if applicable), ≥10.9 EER</li> </ul>
	Residential-sized, ducted	Natural gas-fired furnace	Electric resistance heating or heat pump ≤13 SEER	<ul style="list-style-type: none"> <li>• DX with smart thermostat that meets RPP standards with auxiliary heat control</li> <li>• ≥15 SEER</li> </ul>
	Commercial-sized	Natural gas-fired furnace/heating boiler	Electric resistance heating or heat pump ≤13 SEER	<ul style="list-style-type: none"> <li>• Package or split heat pump(s)</li> <li>• ≥14 IEER, ≥3.4 COP</li> <li>--OR--</li> <li>• VRF system, custom efficiency requirement</li> </ul>
Supporting HVAC EE Measures  Existing or newly installed HVAC system must be a heat pump.  Minimum 1 Go Electric measure must be installed	Duct sealing	Ducted system		<ul style="list-style-type: none"> <li>• ≤10% leakage</li> </ul>
	Wall insulation	R-0		<ul style="list-style-type: none"> <li>• ≥R-13</li> </ul>
	Flat roof insulation	≤R-19		<ul style="list-style-type: none"> <li>• ≥R-12 above existing</li> </ul>
	Attic insulation	≤R-19		<ul style="list-style-type: none"> <li>• ≥R-38</li> </ul>
	Windows	Less efficient than existing Title 24 Code		<ul style="list-style-type: none"> <li>• ≤0.22 U-value</li> <li>• ≤0.23 SHGC</li> </ul>



Domestic Hot Water	Common area water heater (including laundry and pool boiler) and individual residential water heaters	Natural gas-fired water heater or boiler	Electric resistance water heating	<ul style="list-style-type: none"> <li>Heat pump water heater</li> <li>Title 24 JA-13 compliant</li> </ul> <a href="https://www.energy.ca.gov/rules-and-regulations/building-energy-efficiency/manufacture-certification-building-equipment/ja13">https://www.energy.ca.gov/rules-and-regulations/building-energy-efficiency/manufacture-certification-building-equipment/ja13</a>
	Central heat pump water heater with gas-fired backup	Natural gas-fired water heater or boiler	Electric resistance water heater	<ul style="list-style-type: none"> <li>Monitoring system installed</li> <li>Vendor Service Agreement</li> <li>Owner/contractor affidavit confirming system will be designed for heat pump to handle &gt;80% of annual load</li> <li>COP ≥3.0</li> <li>Project-specific additional requirements</li> </ul>
	Central water heater without gas-fired backup	Natural gas-fired water heater or boiler	Electric resistance water heater	<ul style="list-style-type: none"> <li>Heat pump</li> <li>COP ≥3.0</li> </ul>
	High efficiency central water heater	Natural gas-fired water heater or boiler	Electric resistance water heater	<ul style="list-style-type: none"> <li>Heat pump</li> <li>COP ≥3.0</li> <li>≥15 gallons heat pump storage per apartment bedroom served</li> <li>No auxiliary electric resistance heating</li> </ul>
Supporting EE Measures Domestic Hot Water  Installed DHW system must meet be a heat pump  Minimum 1 Go Electric measure must be installed	DHW pump	Single speed pump without controls		<ul style="list-style-type: none"> <li>Variable speed pump</li> <li>Return temp ≤110 °F</li> <li>Balanced system</li> </ul>
	Commercial laundry washer	Top loading		<ul style="list-style-type: none"> <li>ENERGY STAR® Front Loading</li> <li>Purchased or ≥5 year lease</li> </ul>
Other Complementary Measures  Minimum 1 Go Electric measure must be installed	Range & Oven (In unit)	Gas-fired cooktop	Electric resistance water heater	<ul style="list-style-type: none"> <li>Induction cooktop with electric oven</li> <li>30" size</li> </ul>
	Residential Dryer	Gas-heated dryer		<ul style="list-style-type: none"> <li>Residential heat pump dryer</li> </ul>
	Pool Pump	Single speed pump		<ul style="list-style-type: none"> <li>Variable speed pool pump</li> <li>Commissioning of pump size &amp; schedule</li> <li>Heat pump or solar thermal heated pool, or unheated</li> </ul>
	Exterior & common area lighting	Non-LED lighting		<ul style="list-style-type: none"> <li>On Design Lights Consortium qualified products list: <a href="https://www.designlights.org/">https://www.designlights.org/</a></li> <li>Owner-paid, common area lighting</li> </ul>

Category	Sub-category	Site requirements	Installed Equipment Requirement
Commercial EVSE	CALeVIP Electric Vehicle Charger Incentives- Level II - Sacramento County Project	SMUD Commercial Account with eligible site: Multifamily dwelling (public or private availability, must be shared use)  Refer to <b>CALeVIP</b> for all Level II EVSE participant requirements and required supporting documentation.	<ul style="list-style-type: none"> <li>Level II EVSE listed on the CALeVIP Eligible Equipment List</li> <li>Project installed with applicable wiring configuration as defined in SMUD's Electric Service Requirement documents (T017 and T004)</li> </ul>
	SMUD Commercial Electric Vehicle Charger Incentives (EVSE)	SMUD Commercial Account	<ul style="list-style-type: none"> <li>Any Level II EVSE qualifies (networked or non-networked)</li> <li>Project installed with applicable wiring configuration as defined in SMD's Electric Service Requirement documents (T017 and T004)</li> </ul>
EV Fleet incentives	Qualifying projects may be eligible to participate in both CALeVIP and SMUD's Commercial Electric Vehicle Charger incentives simultaneously. Restrictions apply.		
	Qualifying vehicle list	Site requirements	Battery Vehicle examples (Restrictions apply)
	Passenger car	SMUD Commercial Account	<ul style="list-style-type: none"> <li>Light Duty: Bolt, BMW I3, Leaf</li> </ul>
	Class 1	Electric vehicles must be registered and charged at a commercial address with an active meter receiving SMUD electric service, and on EV chargers that are participating in and registered under the SMUD Commercial EV program.	<ul style="list-style-type: none"> <li>Light Duty: Compact truck</li> </ul>
	Class 2a		<ul style="list-style-type: none"> <li>Light Duty: ½ ton truck or van</li> </ul>
	Class 2b		<ul style="list-style-type: none"> <li>Light/Medium Duty: ¾ ton truck or van</li> </ul>
	Class 3		<ul style="list-style-type: none"> <li>Medium Duty: 1-ton truck or van</li> </ul>
	Class 4		<ul style="list-style-type: none"> <li>Medium Duty: Heavy 1-ton truck or van</li> </ul>
	Class 5		<ul style="list-style-type: none"> <li>Medium Duty: 2-ton truck or van</li> </ul>
	Class 6		<ul style="list-style-type: none"> <li>Medium Duty: Beverage truck, single axle box</li> </ul>
	Class 7		<ul style="list-style-type: none"> <li>Heavy Duty: Dual axle box vans, short haul tractor</li> </ul>
	Class 8		<ul style="list-style-type: none"> <li>Heavy Duty: Large semi tractors, dump trucks</li> </ul>
	Applicant understands participation in SMUD's Electric Vehicle Program does not grant the ability to claim renewable energy credits or any carbon savings through participation in the program.		