

Complete Energy Solutions

Leading the way to a carbon-free, clean power future

Case study: Capital Christian Center

Installed Measures



Go Electric



HVAC

Project details

Building type

Place of worship

Square footage

110,000 ft²

Estimated annual carbon savings

462 tons of CO₂

(equivalent to 110 cars removed from the road)

Incentive amount

\$491,182.71



We came to the conclusion that we wanted to do a deeper dive on fuel switching and getting gas and all of the lines completely off the roof. SMUD is a long-term important partner to everything we are doing on our campus.

– Travis Brown

Special Projects and Development
Capital Christian Center



Capital Christian Center has paved the path toward a greener Sacramento on their 60-acre campus by transitioning to all-electric HVAC systems. The 100-year-old church replaced gas HVAC systems in their sanctuary and school buildings with energy-efficient electric heat pumps. This upgrade helped them enhance HVAC performance, meet energy efficiency standards and reach their goal of removing up to 99% of gas lines from their property.

In 2022, Capital Christian Center began upgrading their HVAC systems by leveraging SMUD Complete Energy Solutions (CES) program incentives to reduce upfront installation costs. SMUD CES provided incentives for a range of heat pump sizes, from 20-ton rooftop units to 1.5-ton mini-splits. Each heat pump was carefully chosen to match the specific needs of the space, ensuring the facility remains both comfortable and energy efficient.

By April 2024, the church successfully installed 121 heat pumps across their campus, fully transitioning to an electric-powered heating and cooling system. This upgrade helps create a safer and more comfortable space for occupants and allows the church to leverage on-site solar generation to help power the HVAC systems — something that is not possible with gas-powered systems. The newly installed heat pumps are estimated to avoid about 38,240 therms of natural gas annually, which is equivalent to the amount of CO₂ removed by 539 acres of forest!

CES supports site assessments, energy efficient upgrades, gas-to-electric conversions, EV charger installations and much more!

Get started by submitting an interest form: smud.org/CES

This program is brought to you by SMUD and delivered by TRC and Brighton Energy. | CES@trccompanies.com | 1-844-529-4084

