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Would you like to read about a specific energy topic? Let us know by email at: savemoney@svpower.com

Wonder Ice Cream Invests in Efficient Lighting

Wonder Ice Cream has been manufacturing frozen treats in Santa Clara for over 40 years. In addition to making quality products under some of the most popular brand names, it is also committed to reducing energy consumption, which reduces the company's carbon footprint and helps the environment. Wonder Ice Cream recently implemented a comprehensive lighting system upgrade, replacing old, inefficient metal halide and high pressure sodium high bay fixtures and fluorescent T8 and T12 fixtures with LED lighting.

Because LEDs last longer, the new lighting will reduce maintenance costs in addition to lowering energy bills. The improved color rendering of LED lighting helps to improve safety in the manufacturing facility, as well. The lighting upgrade saves Wonder Ice Cream approximately \$9,000 in annual energy costs. After receiving a rebate of \$8,100 through our lighting rebate program, the project will pay for itself in one year. For more information on our lighting rebate program, visit SiliconValleyPower.com/Lighting.



Custom Building Electrification Projects Now Eligible for Rebates

Silicon Valley Power provides a variety of programs to help customers achieve their sustainability goals, including energy efficiency, transportation electrification and building electrification programs. In addition to our long-standing energy efficiency programs, we've launched a variety of building electrification programs over the past two years. These include:

- Bonus rebates for switching from natural gas-powered food service equipment to efficient electric equipment
- Heat pump air conditioner rebates for conversion to all electric heating and cooling
- Bonus rebates for switching from natural gas water heating to an efficient electric heat pump water heater
- Rebates for converting to heat recovery chillers
- Heat pump pool heater rebates

Silicon Valley Power recently launched its newest commercial building electrification program, the Customer Directed Electrification Rebate. This program helps fund the cost of switching from natural gas-powered equipment to efficient electric equipment for projects that are not eligible under one of our other electrification programs. Customers can receive a rebate based on calculated and verified natural gas and electric energy savings for electrification projects.

The program pays \$0.15 per kilowatt hour of verified energy savings and an additional \$0.15 per pound of CO₂e reduced.

The rebate is capped at 65% of the total project cost, up to \$750,000 for energy savings and \$250,000 for greenhouse gas reductions. That's a potential rebate of up to \$1,000,000.

Example projects include:

- Converting natural gas space heating to electric heat pumps
- Converting natural gas domestic hot water systems to electric heat pumps
- Converting natural gas-powered unique process equipment with an energy efficient, all-electric alternative

To ensure the project will meet all program eligibility requirements, SVP Energy Engineers are available to meet with you during the design phase of the project. Visit SiliconValleyPower.com/BusinessElectrification for eligibility rules and requirements or call an SVP Energy Engineer at 408-615-6650 to schedule an appointment.





Jean-Paul Hill
Principal Engineering Aide Electric

Background: Jean-Paul Hill was first introduced to Geographic Information System (GIS) mapping through his father, who worked as a firefighter in a one-square-mile town that had no street addresses. Jean-Paul watched his father learn how to use GIS to build an addressing system and through that he became interested in the technology behind it. Jean-Paul began doing part-time GIS work while he was in college and worked his way up to Silicon Valley Power (SVP), where he currently operates as the Principal Engineering Aide. In this role, he oversees the maps and records department. Jean-Paul helps maintain all the maps, drawings and data in the GIS system and supports various groups within the electric utility.

Comment: “Once you start working for an electric utility, you never look at the world the same way.”

Favorite pastime: In his free time, Jean-Paul enjoys watching ice hockey. He’s a season ticket holder for the San Jose Sharks. He also loves the outdoors. His family is heavily involved in the Boy Scouts program.

Working at SVP: Jean-Paul enjoys the challenges involved in working on so many different aspects of the utility. “No day is ever the same — there’s always something new to work on.”

CoreSite Data Centers Doubles Access to Electric Vehicle Charging with \$40,000 from Silicon Valley Power

CoreSite Data Centers received \$40,000 in rebates from Silicon Valley Power (SVP) to install four dual-port Level 2 electric vehicle (EV) charging stations at two of its facilities in Santa Clara. The rebates were paid through the Peninsula-Silicon Valley California Electric Vehicle Incentive Project (CALeVIP), which offers incentives for the purchase and installation of publicly available electric vehicle charging infrastructure throughout California.

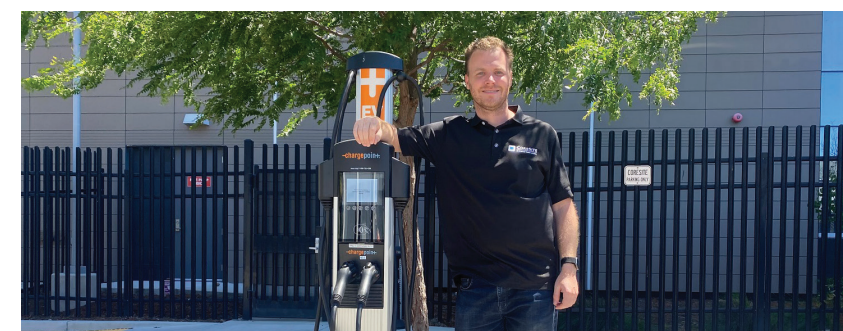
CoreSite Data Centers installed the EV chargers to promote more sustainable transportation for their employees and customers as a component of its larger sustainability mission. Mike Durham, Vice President and General Manager of CoreSite Silicon Valley, says “leveraging the growing renewable sources from SVP to enable this mission is a great story. Providing convenient charging directly on our campus is an amenity many customers will benefit from through the growing popularity of electric vehicles.” Workplace EV charging has become a popular employee benefit as EV drivers rely on home, workplace and public charging to ensure they always have enough battery charge for their daily travel.

While there can be a return on investment with installing chargers, for CoreSite Data Centers, the intangible benefit of adding a convenience that promotes sustainability for their customers, employees, and vendors was most important. Offering workplace EV charging enables employees to shorten their commute using their EVs due to high-occupancy vehicle (HOV) lane access provided to EV drivers.

In addition, both sites are located in a California Environmental Protection Agency defined Disadvantaged Community (DAC). By reducing pollution from gasoline-powered transportation, these projects help improve public health and quality of life in an area of Santa Clara most affected by pollution.

EV charging is an investment that will be used every day, providing benefits such as attracting and retaining top talent, increasing property value, demonstrating community leadership and helping contribute towards reducing emissions in our community.

If you are considering installing EV chargers at your property, Silicon Valley Power provides project support from planning through permitting and installation. Learn how you can receive a custom EV Charging Planning Report and connect with SVP’s EV charging project experts at SiliconValleyPower.com/EVexpert.



Compressed Air: 5 Signs That You Should Upgrade

Air compressors are reliable workhorses that use a lot of energy. With proper maintenance, a unit can last for years. It’s tempting to stick with your old compressor and keep making repairs, but when is the right time to make a change? Consider upgrading an air compressor if you experience these telltale signs of trouble.

1. Your system has broken down more than once in the past year

Multiple system failures could be a sign of a serious problem that could be difficult or costly to fix. System breakdowns are also costly in terms of downtime and lost productivity.

2. Your compressed air system is more than 20 years old

Older systems have more points of failure. With technology advances, newer systems offer more efficiency and higher levels of performance.

3. Your system regularly operates at less than 60% of the rated load

This is a sign that your system is oversized. The motors that operate your compressors run less efficiently at lower loads. Upgrade to a properly sized compressed system with motors equipped with variable frequency drives.

4. It’s difficult to find replacement parts

Parts inventories for older units tend to dwindle over time, often making them more expensive and difficult to locate. This not only increases repair costs, but the length and expense of downtime. Parts for newer units are typically easier to find, and manufacturers often offer better support.

5. Compressors run most of the time during normal work hours

If units are constantly running, that could be a sign that your system doesn’t have the capacity to do the work required. A larger system may better support your needs.

Optimizing system efficiency

Numerous strategies are available to help you improve system efficiency. Start with a compressed air audit. Commonly used energy-saving measures include:

- Inspect the system to locate and fix leaks and other issues that may affect energy efficiency.
- Review compressed air end-uses and determine the required level of air pressure. Look for processes that can be reconfigured to use air more efficiently.
- Install modulating inlet or multi-step controls, which enable the compressor to operate at part load during periods of low demand.
- Design a pressure control system to separate air supply and demand, allowing compressors to operate at optimum pressure to maximize efficiency. Higher pressure air is delivered to storage tanks and is available to meet fluctuating demand at a constant, lower-pressure level.

By combining target upgrades with proper maintenance and operation, you can maximize compressed system performance, saving energy and money.

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2021 POWER CONTENT LABEL					
City of Santa Clara dba Silicon Valley Power					
https://www.siliconvalleypower.com/svp-and-community/about-svp/power-content-label					
Greenhouse Gas Emissions Intensity (lbs CO ₂ e/MWh)					2021 CA Power Mix
SVP Residential	SVP Non-Residential	Green Power Standard	Green Power National	2021 CA Utility Average	
0	646	0	646	456	
Energy Resources					
					SVP Residential
					SVP Non-Residential
					Green Power Standard
					Green Power National
					2021 CA Utility Average
Eligible Renewable ¹					35.9%
Biomass & Biowaste					0.0%
Geothermal					0.0%
Eligible Hydroelectric					0.0%
Solar					14.7%
Wind					21.2%
Coal					0.0%
Large Hydroelectric					64.1%
Natural Gas					0.0%
Nuclear					0.0%
Other					0.0%
Unspecified Power ²					0.0%
TOTAL					100.0%
Percentage of Retail Sales Covered by Retired Unbundled RECs ³ :					0%
					0%
					75%
					2%
¹ The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology. ² Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source. ³ Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.					
For specific information about this electricity portfolio, contact:					City of Santa Clara dba Silicon Valley Power (408) 244-SAVE (7283)
For general information about the Power Content Label, visit:					http://www.energy.ca.gov/pcl/
For additional questions, please contact the California Energy Commission at:					Toll-free in California: 844-454-2906 Outside California: 916-653-0237