Silicon Valley Power, City of Santa Clara
1500 Warburton Avenue
Santa Clara, CA 95050
www.siliconvalleypower.com

PRSRT STD
U.S. POSTAGE
PAID
SANTA CLARA, CA
PERMIT NO. 16

Powering The Center of What's Possible

The Outlet

Powering The Center of What's Possible

Inside this Issue:

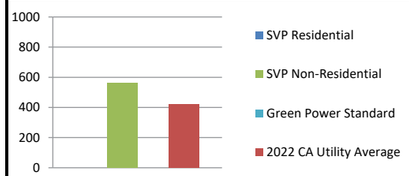
Would you like to read about a specific energy topic? Let us know by email at: savemoney@svpower.com

2022 Power Content Label

2022 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_2e/MWh)

SVP Residential	SVP Non-Residential	Green Power Standard	2022 CA Utility Average
0	562	0	422



Energy Resources	SVP Residential	SVP Non-Residential	Green Power Standard	2022 CA Power Mix
Eligible Renewable[1]	**34.6%**	**33.1%**	**100.0%**	**35.8%**
Biomass & Biowaste	0.0%	1.8%	0.0%	2.1%
Geothermal	0.0%	6.3%	0.0%	4.7%
Eligible Hydroelectric	0.0%	8.7%	0.0%	1.1%
Solar	19.4%	7.0%	100.0%	17.0%
Wind	15.2%	9.3%	0.0%	10.8%
Coal	**0.0%**	**0.0%**	**0.0%**	**2.1%**
Large Hydroelectric	**65.4%**	**8.8%**	**0.0%**	**9.2%**
Natural Gas	**0.0%**	**23.3%**	**0.0%**	**36.4%**
Nuclear	**0.0%**	**0.0%**	**0.0%**	**9.2%**
Other	**0.0%**	**0.0%**	**0.0%**	**0.1%**
Unspecified Power[2]	**0.0%**	**34.8%**	**0.0%**	**7.1%**
TOTAL	**100.0%**	**100.0%**	**100.0%**	**100.0%**
Percentage of Retail Sales Covered by Retired Unbundled RECs[3]**:**	**0%**	**0%**	**100%**	

[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:	https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program

The Outlet
Silicon Valley Power's Quarterly Newsletter for Business

Powering The Center of What's Possible
September 2023 • VOLUME 24, ISSUE 3

Advanced Rooftop Controls Rebates Available for HVAC Systems

Advanced Rooftop Controls (ARC) are a cost-effective retrofit solution for rooftop HVAC units. Small to medium-sized packaged HVAC units typically have supply air fans that run at a constant speed to recirculate air and supply fresh air to the building. An ARC is a digital control system installed in these HVAC units. It modulates the supply air fan speed, enhances economizer control of fresh air and enables remote monitoring of HVAC system operation. ARC is a proven technology with high customer satisfaction, as energy savings usually exceeds expectations.3.

ARC provides many benefits including:

- Reducing HVAC energy costs by up to 50% and lowering utility bills by up to 20%
- Enhancing performance by making it easier for the HVAC unit to maintain occupant comfort
- Improving indoor air quality by optimizing fresh air supply
- Lowering maintenance costs by enabling remote monitoring and reducing wear and tear on HVAC components
- Reducing energy use of supply air fans by modulating fan speed, which also reduces noise and vibration

Good applications for ARC retrofits include buildings with rooftop, single-zone HVAC units and long hours of operation and varying levels of occupancy with many people. Retail, grocery or convenience stores and medium-sized offices are ideal candidates. However, any building utilizing packaged rooftop units of 5 – 50 tons may benefit from an ARC retrofit.

Silicon Valley Power offers rebates based on unit size for eligible advanced digital controllers:

- $1,600 per controller installed for units from 5 to <10 tons
- $2,500 per controller installed for units from 10 to <15 tons
- $3,500 per controller installed for units 15 tons or greater

ARC retrofit costs vary depending on the size, age and condition of the HVAC unit. The HVAC unit should be tested and commissioned prior to the retrofit to ensure it is operating properly. Simple payback on the projects average 3-6 years.

If you're ready to start saving on your HVAC costs, visit SiliconValleyPower.com/HVAC or contact an energy engineer at 408-615-6650 to schedule a pre-inspection.

Are You Wasting Energy Late at Night?

It's late at night, and everyone's gone for the day. While most people are home asleep, many building systems and equipment continue to operate at full power. If you suspect that your operating budget is being haunted by this type of waste, there are steps you can take to give up the energy ghosts. Here are some of the most common after hours offenders and what you can do about them.

After hours comfort settings

A comfortable business environment is important, but not so much when you're not doing any business. Adjust the thermostat after hours to save energy, and you can reduce your heating and cooling costs significantly. A programmable thermostat makes it easy by automatically adjusting temperatures according to your schedule. Newer "smart" models include advanced features, such as remote control and AI algorithms to increase efficiency, and some can even interface with other Internet of Things devices in your home.

Lights and equipment left on in empty spaces

Security lighting is essential, but leaving lights running after hours in empty offices, break rooms, restrooms and other areas isn't very bright. It's easy for staff members to forget to switch lights off when they leave for the day. Lighting controls, such as timers and occupancy sensors, will ensure that lights are off after closing, or when a space is empty. And, they'll automatically turn them right back on when you need them.

Phantom loads

Computers, office equipment and other electrical devices around your facility continue to use power even after everyone has left for the day. Such "phantom loads" can be costly. Enable power management settings on all computers and office equipment. This puts these devices in low power "sleep mode" when they're not in use. Supplement power management settings with advanced power strips, which use timers or sensors to shut off power to connected devices.

Personal appliances

Personal appliances are never a good idea from an energy management standpoint, especially when there's no personnel around to benefit from them. Personal appliances running after hours is a big waste of energy and a potential safety hazard. Send out regular reminders to staff to remember to turn off space heaters, fans, coffee makers and other personal devices when they leave for the day.

To optimize your energy use, consider an energy assessment of your business. A qualified auditor will examine your facility and provide you with a set of targeted set of cost-saving recommendations that will help you reduce your energy use all day, every day. They will probably also recommend that you begin using ENERGY STAR Portfolio Manager® to track your progress, if you have not already. Portfolio Manager is a free online tool available from the U.S. Environmental Protection Agency. You can use it to compare your energy performance against similar facilities nationwide and establish a baseline to monitor improvement over time.

Outlet Newsletter Transitioning to E-News through the SVP Energy Insider

After nearly two decades, The Outlet newsletter will end this year as we move away from delivering a print newsletter as part of our overall sustainability efforts. The last issue will be mailed in Dec. 2023. However, Silicon Valley Power's business customers will still be able to receive information on energy topics through our e-newsletter, the SVP Energy Insider.

The SVP Energy Insider is published monthly and delivered directly to your email inbox. It is brought to you in partnership with Questline Inc.® and includes energy saving tips, articles about emerging technologies and other resources to help reduce your operating costs. Subscription to the newsletter also provides access to an online platform with a library of articles, videos and infographics. You will find a variety of resources on topics that include energy efficiency, electric safety, building electrification and electric vehicles.

Customers who do not already receive the SVP Energy Insider may sign up by visiting SiliconValley Power.com/SVPEnergyInsider.

Note that this service is only available to Silicon Valley Power electric customers.

Bonus Lighting Rebates End Dec. 31

Installing new energy efficient lighting will reduce your energy costs while enhancing the quality of light in your facility. Take advantage of the latest technologies to improve the look and feel of your business and increase employee productivity. Upgrading to eligible equipment can also earn rebates from Silicon Valley Power.

Bonus rebates for certain projects are currently available. In an effort to eliminate mercury in lamps, California Assembly Bill 2208 (AB2208) prohibits the sale of compact and linear fluorescent lamps. Compact fluorescent lamps (CFLs) will no longer be sold beginning January 2024 and linear fluorescent lamp sales will end January 2025. To help customers to replace these lamps with LED technology before the legislation goes into effect, Silicon Valley Power doubled its rebates on these technologies for projects initiated and completed between Sept. 1, 2022 and Dec. 31, 2023.

If you have pin-based compact fluorescent lamps or linear fluorescent tubes in your facility, now is the time to replace them and earn twice the rebate. Rebates are also available on a variety of other lighting technologies, including lighting controls. Standard rebates are $0.15 per kWh of first year energy savings and increase to $0.30 per kWh for projects qualifying for the bonus incentive. Many projects pay for themselves in less than three years.

To get started, download lighting rebate application and rebate calculator at SiliconValleyPower.com/Lighting to determine your potential rebate and energy savings. If you have questions or need assistance in determining if a product is eligible, contact our energy engineers at (408) 615-6650 or savemoney@siliconvalleypower.com.

Employee Profile:

Allie Jackman

Principal Electric Utility Engineer

Background: Before coming to Silicon Valley Power (SVP), Allie worked for the City of Santa Clara as a Principal Engineer in the Public Works Department where she oversaw land and property development. She's transferred her skillset in managing large-scale projects over to SVP in her current role as a Principal Electric Utility Engineer. In this role, Allie is responsible for overseeing the electric system expansion program to meet the increasing demand for electricity.

Comment: "I feel a really big sense of accomplishment working for a utility where I live and being able to see the impact that my day-to-day work has on the community."

Favorite pastime: When she's not working, Allie enjoys spending time with her two-year old daughter. Recently, she planted a large garden in her backyard that contains a wide variety of fruits and vegetables.

Working at SVP: Allie appreciates collaborating with her colleagues at SVP. She loves seeing the development within the city and using her problem-solving skills to ensure customers can receive electrical service. "I like to have a positive outlook and do my best to keep things moving in a timely manner, getting the right people in the room to talk through things if issues do arise."