

CASE STUDY

Eco-Conscious Sprouts Farmers Market Elevates its Sustainability Program with Upgrades to Rooftop Unit Motors

The Challenge

Sprouts' commitment to the community goes well beyond offering fresh, natural products at reasonable prices. It also focuses on ensuring its operations are good for the environment. Their zero waste program includes multiple measures to ensure that no food goes to waste. They also keep a keen eye on their facilities to lead the industry in store efficiency and sustainability.

Sprouts incorporates eco-friendly building materials wherever possible and constantly looks for ways to conserve energy and water. They've implemented features like night curtains, natural lighting, and LED lighting in their stores, and have achieved EPA Green-Chill certification for 76 of their stores, receiving the EPA's Store Certification Excellence Award as a result. They have even begun successfully implementing Second Nature™ CO2 Ejection refrigeration technology, the most energy-efficient and environmentally-friendly refrigeration system available in the industry. Now they are working on gaining efficiencies in another of their biggest energy users - HVAC electric motors.

The Solution

Sprouts turned to SMC Smart Motor System—the LED of Motors—to help them gain efficiencies and intelligence in their HVAC systems. Selecting a pilot site in Sunnyvale, CA, Sprouts and SMC developed a baseline using four weeks of monitoring and verification data. The existing motors in five RTUs were then swapped for SMC Motor systems: three SM10s, one SM5, and one SM3.

Results

Results were evident almost immediately. The SMC Motor Systems enabled Sprouts to add HVAC motors to their already impressive sustainability and efficiency measures. In addition, they now have real-time visibility of the efficacy of their system and an accurate picture of the significant energy savings they are realizing.

Based on these results, Sprouts is moving forward with a roll out of multiple stores in California.

Profile

An up-and-coming natural grocer that has sustainability built into the business model. Focusing on farm-fresh produce and other healthy items, Sprouts has grown to over 300 stores across the United States.



Building Square Footage:
35,000 sq. ft.



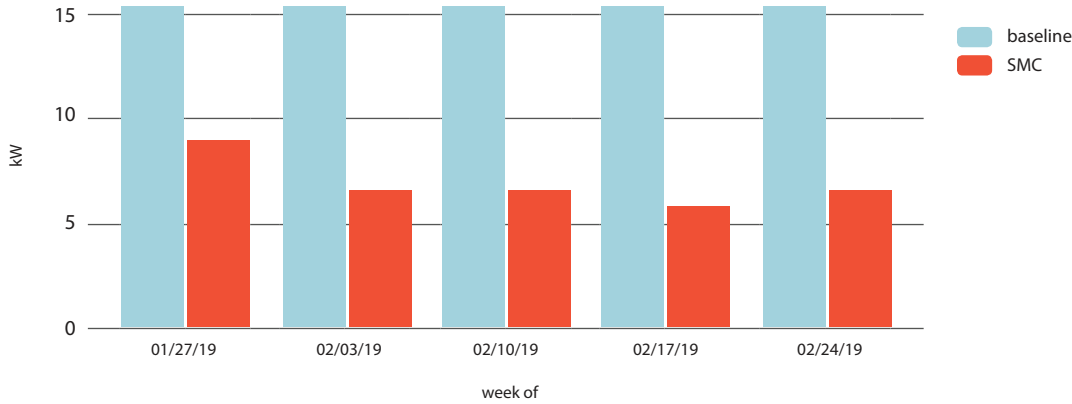
5 RTU HVAC System
Motor Replacements



SMC SMART MOTOR
SYSTEM SIZE
(3) 10HP, (1) 5 HP
(1) 3 HP

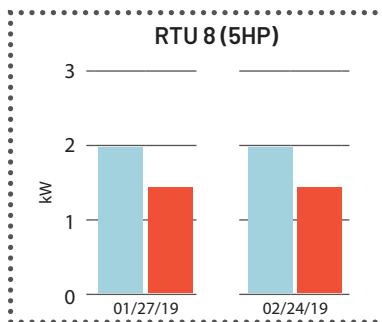
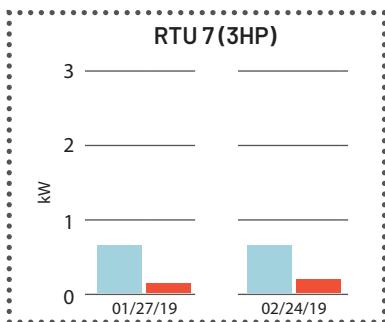
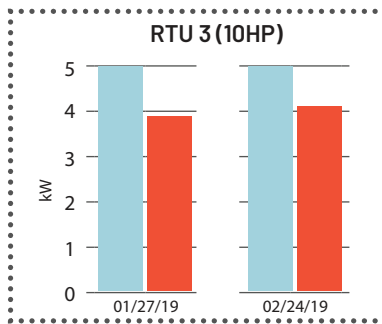
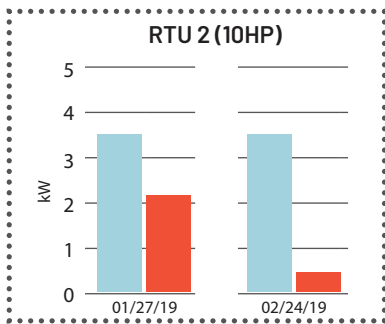
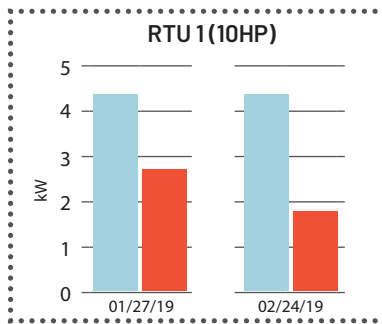


SMC POWER DRAW VS. BASELINE



Power draw comparison by motor

(01/27/19 : 02/24/19)



Savings

\$7.6k

COMBINED ANNUAL SAVINGS GAINED BY INSTALLING OPTIMAL EFFICIENCY MOTORS

39%

kWh SAVINGS ANNUALLY FROM COMBINED RETROFITS OF THE FIVE RTUS

1.37

YEARS TO RETURN ON INVESTMENT



The Silicon Valley based Software Motor Company is setting a new standard of efficiency, reliability, and intelligence with the SMC Smart Motor System. SMC combines modern computing and software control with the proven reliability of switched reluctance motor technology to achieve an unprecedented optimal efficiency. The patented SMC Smart Motor System only uses energy when it is needed, thereby significantly reducing space conditioning and refrigeration energy costs. A fully programmable IoT controls package facilitates maintenance savings and easy integration with existing building systems.

POWER IS VALUABLE. USE IT INTELLIGENTLY.

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