

Beyond a Building Automation System for Assisted Care Facility



Energy Independence. More Choice. Less Waste.

Reducing & Optimizing Energy Usage, Enhancing Reliability

Energy Professionals partners with industry leading solution providers to provide the ultimate solutions to energy reliability.

Introduction




In an effort to reduce energy consumption and improve operational efficiency, Stellar Care partnered with our solution partner to implement an energy intelligence device built to monitor, measure and create energy efficiencies in real time through the interpretation of the data collected. Powered by artificial intelligence (AI), the patented platform automatically adjusts building infrastructure systems to achieve Demand Response in real time, reducing general and peak time energy usage.

Customer Profile

In 2008, Stellar Care opened a family owned residential care facility for seniors specializing in Alzheimer's and Memory Care services.

Stellar Care strives to provide premier assisting living care while navigating the difficult realities of their residents living with dementia. Meeting the physical, emotional and social needs of their residents with dignity and respect requires extraordinary levels of staffing and specialization.

Common Problems

-  Increasing Costs
-  Budget Control
-  Energy Reliability

Customer Challenge

Stellar Care's primary business philosophy is: **"It's all about the Care."** In effort to provide optimal, person-centered care, it is essential that Stellar Care remove wasteful spending, introduce innovative solutions, attract and retain qualified employees and continue improving operational performance by lowering costs.




Stellar Care lacks a centrally controlled HVAC system and has been unable to easily monitor and control temperatures in each of its rooms. Residents frequently adjust the thermostat in their rooms to a high or low setting and often times leave with the air conditioning still running. To ensure the comfort of residents, and to lower energy and operational costs, employees had to enter each room to adjust the thermostat. Streamlining this process to allow for real-time monitoring of each room is one of Stellar Care's highest priorities.

The Solution

In 2016, our solution partners installed an automation platform to address Stellar Care’s need to fully automate operating procedures, monitor resident’s activity, control the HVAC in real time and capture immediate energy cost savings and improved operational performance. Today, platform monitors 268 devices including: Wi-Fi, thermostats, motion/temperature sensors, door sensors and water leak detection sensors.

Stellar Care prevents energy inefficiencies and ensures comfortable temperature levels by centrally controlling the AC units in each room.

By managing temperature controls and monitoring the movements of residents and staff, Stellar Care is now able to customize and program automations to support operational efficiency in real time and at a more granular level – implement changes room by room

-  A Dashboard With Data and Analytics About Usage, Providing Control.
-  Electricity Usage Reduction
-  Energy Spend Reduction & Budget Control

About Energy Professionals

Founded in 1999, Energy Professionals is one of North America's leading energy consultants working with commercial customers to reduce and control their energy budgets. We build client-specific, comprehensive energy strategies that factor in our clients' goals and objectives. Utilizing our extensive network of suppliers, energy efficiency experts and renewable energy partners, we bring the most effective, efficient and innovative technologies to the table. We offer both focused solutions to a specific issue and broad plans to address long-term growth, paving the way for energy independence, providing more choice and less waste.






Results

“Since going live with automations at the start of 2017, we have seen a constant 10-15% savings compared to last year’s bills for the same spring months and close to 20% savings during the past two summer months. Being able to instantly see the total energy usage in the building allowed us to throttle down energy usage when we approached energy peaks, which cut demand charges down by 30-40% when compared to the same months in 2016. Furthermore, the dashboard displayed at our front desk has been a hit with marketing tours and has set us apart from the other communities as innovators in the memory care industry. Most importantly, the alert system and dashboards have allowed us to quickly respond to rooms that have become too hot or too cold with residents who are often unable to report it themselves.” - Brandon Cho, the Facilities Manager at Stellar Care



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