



Leading Community Care Company in the US Achieves Significant Energy & Water Cost Savings

The Challenge

One of the leading senior health care companies in the US with multiple facilities across the country was looking to reduce its operating costs and leverage its costs savings for further improvements to its care facilities. It decided to target both energy and water which has significant impacts on its profitability. The company also decided to include deeper retrofits that can stay effective over a longer period.

The company was looking to improve the energy and water efficiency in its existing locations. The challenge was to identify significant energy and water cost reductions with ease of implementation and minimal interruption to the facility operations during implementation.

The Solution

Star Energy was engaged to implement a comprehensive energy cost reduction program to deliver sustainable and significant energy and water cost savings to achieve the client’s ambitious target. To ensure that the energy and water savings are sustained over the lifetime of the retrofit, a rigorous monitoring and tracking system was also developed and implemented.

The Result

Around 10 energy and water cost reduction measures were initially selected and tested on multiple pilot locations. The top measures were selected based on key financial metrics and ease of implementation for a large-scale rollout across the portfolio. Significant energy and water cost reductions were observed and, based on the excellent pilot results, over 30 eligible locations were selected for implementation of the program through the rollout phase across the country.

Profile

The company has different formats of facilities spread across multiple weather zones and has a variety of HVAC and lighting systems.



Average area of the facility:

41,000 Sq. Ft.

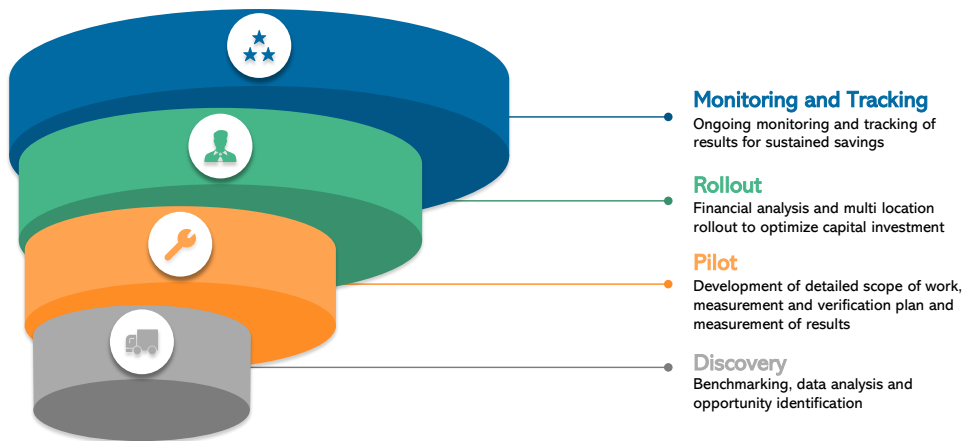


Average electricity use index:

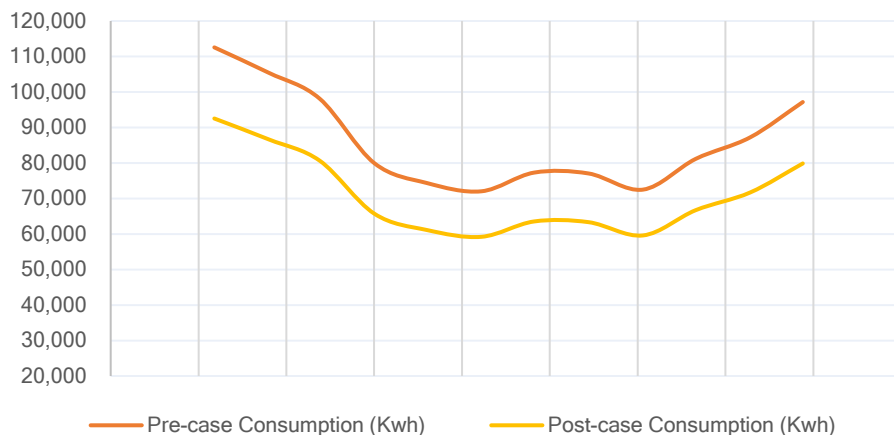
34kWh/Sq. Ft.



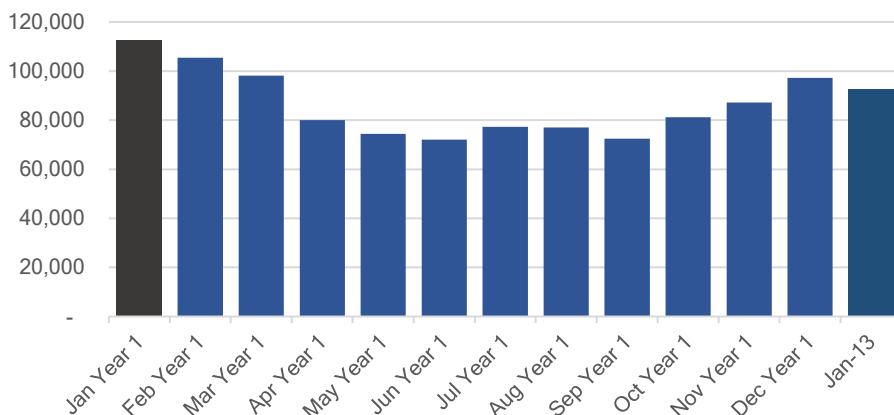
Program: Major steps



Annual Profile of Electricity Consumption (kWh) Before and After Implementation



Monthly Consumption (kWh)



Highlights

Pilot locations

\$31,000

Average electricity & water costs reduction per facility.

12% Average

savings on annual electricity & water costs of the facility.

Less than 3 years

Average simple payback from all implemented measures.

Over 30% IRR

3 kWh/Sq. Ft Average reduction in energy use index

Over \$150,000 NPV/facility



Star Energy is an energy management company that specializes in the community care sector. Our experience working with major clients across North America has helped us to develop a program that not only optimizes the returns on capital but also improves asset values and the life of mechanical and electrical systems. We have worked with utilities across the US and Canada and our program is typically eligible for utility incentives that reduce implementation costs and further improve payback from the program. Our program is highly customizable to each client's financial and operational requirements.

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