ENCYCLE
INTELLIGENT BUILDINGS MADE EASY

CASE STUDY
SWARM LOGIC®

HOW ENCYCLE HELPED A LEADING HEALTHCARE SERVICES PROVIDER REDUCE ELECTRIC ENERGY CONSUMPTION BY **28%** AND LOWER PEAK DEMAND BY **18%** ANNUALLY AT TWO MEDICAL CLINICS.

SAVED OVER
23 MWh
ELECTRIC CONSUMPTION ANNUALLY

- SAVED MORE THAN **$2,400** ON ANNUAL ELECTRIC ENERGY COSTS AND EARNED UTILITY INCENTIVES FOR SMART THERMOSTAT INSTALLATION
- REDUCED ELECTRIC CONSUMPTION BY **28%** WITH SAVINGS OVER **23 MWh** IN ONE YEAR
- AVOIDED **16 METRIC TONS** OF CARBON EMISSIONS
- LOWERED PEAK DEMAND BY **18%** ANNUALLY

HEALTHCARE SERVICES LEADER

TWO NORTH CAROLINA MEDICAL CLINICS

This prominent healthcare leader offers a wide range of primary and specialty care services at medical clinics throughout North Carolina. They are recognized for their patient-centered care and commitment to leveraging cutting-edge medical technology.

With a strong focus on providing exceptional care while prioritizing the well-being of their patients and staff, the client sought an energy optimization solution that aligned with their values and operational needs. Maintaining optimal indoor temperatures for patient comfort while ensuring energy efficiency created a significant challenge that required a sophisticated solution. Encycle's Swarm Logic® cloud-based technology was deployed at two of their healthcare facilities and became a well-matched solution for their challenge.

The first clinic is a multi-level building with 7 rooftop units for various spaces, including reception, walk-in clinic, primary healthcare service rooms, offices, and waiting areas. The second facility has 5 rooftop units and offers wellness program services, such as dietary, respiratory, and mental health counseling.

CUSTOMER CHALLENGES

- Needed to optimize HVAC operations while maintaining precise temperature control to ensure that patients and staff experienced consistent comfort levels throughout facilities regardless of outdoor climate.
- Seeking a low cost, easy deployment solution aligned with their mission of providing high-quality care, while minimizing environmental impact and reducing energy spend.
- Wanted the ability to anticipate, prioritize, and budget for maintenance activities without having to allocate capital for complex and expensive new systems.

ENCYCLE'S SWARM LOGIC SOLUTION

Swarm Logic technology was deployed at two medical clinics through integration with smart thermostats. The healthcare customer's utility provider worked in parallel with Encycle to assure proper installation of new thermostats for quick and seamless deployment.

The customer also qualified for financial incentives offered through utility programs for implementation of the intelligent energy-optimizing solution, making for a low cost deployment.

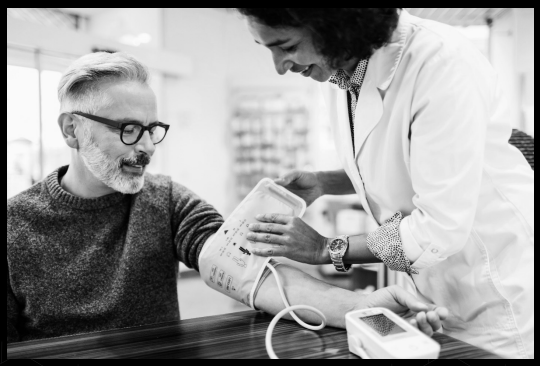
SWARM LOGIC RESULTS

The deployment of Swarm Logic through smart thermostats resulted in a significant annual energy consumption savings and peak demand reduction for this leading healthcare services provider, leading to cost savings and improved operational efficiency.

By leveraging advanced algorithms to dynamically optimize heating and cooling operations based on real-time data and changing conditions, the software autonomously maintained indoor temperatures within a narrow threshold for heating and cooling setpoints, ensuring optimal comfort for patients and staff.

Despite extreme outdoor temperature fluctuations, Swarm Logic successfully reduced energy consumption without compromising occupant comfort, demonstrating its effectiveness in balancing energy efficiency and comfort.

The collaboration between this healthcare customer and Encycle exemplifies the successful integration of energy-optimizing HVAC software to achieve substantial energy savings, enhance occupant comfort, and support sustainability goals. By prioritizing patient well-being and operational efficiency, the healthcare provider has set a benchmark for leveraging innovative technology to drive positive outcomes in medical facility management.



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