

Dave & Buster's

Dave & Buster's improves profitability by reducing its energy and facilities expenses

Dave & Buster's is a world-renowned entertainment brand that delights guests with its innovative arcade games, sports watching environment, and craft food and beverage offerings. With over 145 unique locations, each store operates in a complex environment that includes full-service kitchens, dining rooms, gaming areas, audio visual effects, private event spaces, and more. Interested in reducing their energy spend, Dave & Buster's was seeking a low-cost solution that would not require heavy day-to-day support from its lean facility operations team. The team realized it needed better visibility and insights into the performance and uptime of its existing HVAC rooftop units (RTUs), and they wanted a simple way to remotely monitor and analyze the equipment to control energy use across their enterprise.



How Encycle is helping Dave & Buster's, a national restaurant and entertainment chain, save more than \$600,000 each year on HVAC-related energy costs

Dave & Buster's Challenges

- Management wanted to find a simple and cost-effective solution to reduce their HVAC energy spend and usage throughout their enterprise.
- Each location featured a kitchen with heat-producing equipment as well as large open areas where guests expect cool comfort during hot summer months.
- Management wanted the ability to anticipate, prioritize, and budget for maintenance activities, but existing tools did not provide insight and visibility into the performance of HVAC equipment.
- Without the capability for corporate staff to remotely monitor and control HVAC equipment, on-site staff were overriding corporate setpoints. These actions resulted in excessive energy consumption and demand and delayed discovering mechanical maintenance issues needing attention.

Encycle's Swarm Logic® Solution

After a short evaluation period, Dave & Buster's deployed Encycle's Swarm Logic® cloud-based HVAC optimization technology across its enterprise of locations. With Swarm Logic, they were able to:

- Realize significant reduction in energy costs and an almost immediate financial payback period.
- Achieve a very low cost of deployment.
- Leverage utility incentives and demand response programs in certain markets to further reduce program costs.
- Gain insight into RTU operation to help diagnose the root cause of equipment issues and stay informed on maintenance decisions.
- Access many of the benefits of a building automation system (BAS) by coupling Swarm Logic with commercially available smart thermostats. This "Virtual BAS™" comes at a fraction of the cost of a traditional building automation system, and is much simpler to install, operate and maintain.



The quick and seamless integration enabled each site's RTUs to operate as part of a networked system, responding more efficiently to changing conditions such as outdoor temperature and building occupancy, thereby apportioning energy consumption more logically. Dave & Buster's appreciated how the Encycle team was able to rapidly adapt to changes in operating processes that are implemented on a routine basis. This approach assures that Swarm Logic is continually delivering the desired results while minimizing time and effort required from the corporate and site staff. Routine training by Encycle added yet another layer of ease while demonstrating a commitment to supporting our customers on an ongoing basis.

Swarm Logic Results

To ensure they received all of the benefits of Swarm Logic across their locations, Dave & Buster's had Encycle partner with their engineering firm to incorporate our cloud-based technology into the design specification of all new locations.

The facilities management team also gained access to valuable analytics on the performance of their HVAC systems, including early indications as to when an RTU is not performing as expected. This information helps the team and its HVAC contractors to direct maintenance efforts where they will have the greatest impact, leading to reduced repair costs.

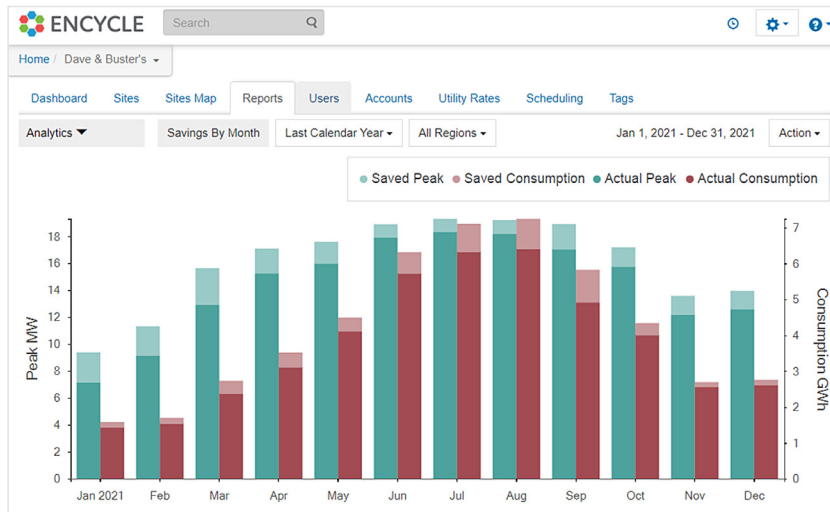
Further, the application of Swarm Logic has enabled Dave & Buster's to participate in Demand Response programs.

Swarm Deployment Update

Dave & Buster's has deployed Swarm Logic to more than 120 locations, and is standard technology in their new locations added each year.

The Numbers

- Annual savings across 100+ locations:
 - Annual energy savings \$644,603
 - Reduced annual HVAC electric consumption by more than 5,054,326 kWh
 - Lowered annual peak electric demand 19,316 kW
 - Reduced annual greenhouse gas emissions by 3,991 tons



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