

20-40% REDUCTION in HVAC ENERGY

ECORE-CI® (ECORE - Efficient COoling and REfrigeration)
AI-driven energy conservation technology

ECORE-CI® is Online Energy Manager's (OEM's) patented AI/Machine-Learning Energy Conservation technology for large Central Cooling Chillers. ECORE actively evaluates dynamic variables, such as the constantly changing load, ambient air temperature, relative humidity, the Condenser Water Entry Temperature (CWET), among others, and optimally adjusts set points and balances loads across multiple chillers yielding significant energy and cost savings.

Typical Applications: ≥200Ton Water Industrial Chiller Systems and Heat Pumps. Regardless of building type (Mall, Office Buildings, Industrial, Chemical Industrial etc.) or current efficiency (LEED, WELL, Energy Star etc.), ECORE is guaranteed to reduce HVAC energy 20-40%. OEM's optimal-efficiency technologies are applicable to all centralized chiller systems and heat-pumps with centralized water loops.

With 18 large-scale commercial projects worldwide, ranging from 500 to 25,000 tons, ECORE is proven technology that is guaranteed to reduce HVAC energy load and GHG emissions 20-40%+.

ECORE does not replace your BMS or BAS; ECORE makes it smarter. ECORE becomes the bolted-on brain that optimizes operation of centralized HVAC system in response to changing real time conditions without operator intervention. ECORE communicates with the BMS/BAS using a native interface and relies on native HVAC system controls consistent with manufacturer specifications; therefore, there is no impact on manufacturer warranty. BMS and BAS generally have the capability to execute commands and specify various equipment set-points, with the addition of ECORE they can now analyze and optimize set points in response to changing real time conditions without operator intervention.

Typical Implementation Time: 10-15 weeks

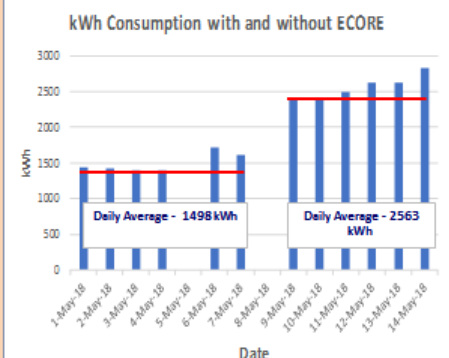
* ECORE-CI® is a registered trademark of On-Line Energy Manager, LLC

CASE STUDY: John's Island Club

- Beach Club in Vero Beach, Florida
- Integrated with Johnson Controls' METASYS BMS
- Saved over 40% of cooling energy
- Implemented on the SaaS model

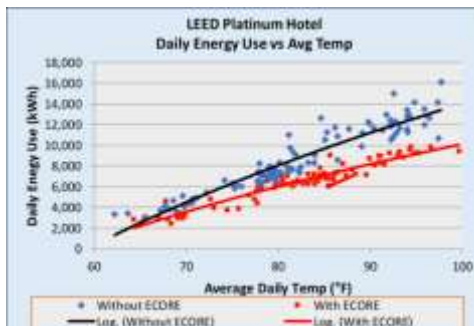
"In the recent measurement and verification (M&V) conducted during May 2018 the results showed that the ECORE saved an average of 1,065 kWh per day (41.6%) "

- Rex Wilson
Director, Facilities,
John's Island Club



DISTRICT COOLING PLANT 2016 vs. 2017 w/ECORE®

- 25,000-ton District Cooling Plant in the Middle East for data center, comfort cooling and industrial process cooling.
- 10 sets of chillers & 23 energy transfer stations.
- Even with a very low electricity price (about 4 cents per kWh), ECORE was able to achieve substantial cost savings.
- Annual energy costs – US\$ 3.2million
- Savings – US\$ 600,000



ITC Hotels is a member of the Starwood Group and is India's premier hotel chain with 17 five-star hotels. All of the hotels are LEED Platinum certified. ITC's flagship hotel, the Maurya in Delhi, was one of the most energy-efficient hotels in the world. The ITC team, in cooperation with OEM engineers, identified the potential for additional energy efficiency improvements. After installing the ECORE platform, OEM was able to save ITC about 32% of cooling energy, with approximately a 2-year payback.