



Hilton Hotel Penns Landing

Case Study

Hilton Hotel Project Scope

23 Story hotel built in 2000 located at the historic Penn’s Landing in Philadelphia. The building consists of a 500 car parking garage, 350 deluxe guestrooms, 3 floors of high-end meeting and banquet space, restaurants and bars all along on the famous waterfront.

Rich Energy Solutions (RES) developed a two phased approach for the customer so they could use the energy savings and utility rebates to pay for future phases of the energy efficiency project. RES and Tomorrow’s Utilities from Wynnewood, PA brought in Constellation Energy an Exelon Company to include the cost of the proposed measures on the Hilton’s utility bill. Using Constellation Efficiency Made Easy (EME) program the owner received all of the items in Phase 1 and 2 with no money out-of-pocket! Phase 3 of this successful project is currently being developed.

Utility Funding – No CapEx! Constellation “EME” Project	Phase 1 and Phase 2
Project Values: (Combined cash price for the projects \$545,170)	Owner Paid \$0
Rebates and Incentives:	\$56,500
Internal Rate of Return:	Infinite
Annual Energy Savings	\$111,549
10 Year Positive Cash Flow	\$2,095,717

Phase #1 – A State-of-the-art LED lighting retrofit of the common areas, back of the house and hotels rooms greatly reduced maintenance and energy costs. This upgrade created standardization throughout the facility and better customer experience.

Phase #2 – Replacement of the original domestic water booster pumps with high efficiency motors, variable frequency drive and controls. A new high efficiency condensing boiler installed in the rooftop mechanical penthouse and 16 large air handling units for ballrooms and function areas were renovated to modulate the HVAC systems based on demand. Retro-commissioning of the BMS and web-based analytic overlay modernized the old BMS.