

A night-time photograph of the Grand Hyatt San Francisco hotel, a tall, modern skyscraper with many lit windows. The building is the central focus, surrounded by other city buildings and streetlights. A red banner is overlaid on the left side of the image, containing the hotel's name.

GRAND
HYATT

Grand Hyatt Automates Savings With Verdigris

Grand Hyatt San Francisco utilizes Verdigris Adaptive Automation™ to effortlessly reduce energy consumption and save money. This revolutionary technology helps the hotel save 20% on the controlled load.

A Leader In Smart Buildings

As one of the premier hotels in the heart of the city, Grand Hyatt San Francisco maintains a commitment to providing the best experience for its guests while being good stewards of the community and environment. In pursuit of this goal, Grand Hyatt San Francisco has established a reputation as a leader in smart-building and green technology.

Grand Hyatt San Francisco has been a Verdigris customer since 2015 when the Director of Engineering came to us looking for an accurate and innovative solution to account for energy costs associated with the hotel's retail tenant¹. Verdigris systems revealed that the tenant was responsible for a higher portion of the building's energy costs than had been initially estimated. This was due to high energy usage during expensive peak-demand periods² when many hotels typically have relatively low demand. This discovery was only possible through high-frequency circuit-level metering from Verdigris, and has allowed the hotel to avoid paying high costs for energy it isn't using.

Since then, our relationship has expanded beyond submetering to include whole-building metering, Intelligent Alerts, and Adaptive Automation™ to deliver thousands of dollars in energy savings for the hotel.

Now with Adaptive Automation™ Verdigris is utilizing artificial intelligence to automatically and effortlessly **save over 20%** of the load under control while achieving an average monthly **ROI of over 40%**.

¹ To learn more about our history with Grand Hyatt San Francisco, see the case study of our previous work together: verdigris.co/pdf/Grand-Hyatt-Case-Study.pdf

² "Peak Demand" refers to the time of day when the load on the electrical grid is the greatest. During this period energy is more costly to generate by the utility, so many utilities pass on the costs to consumers through higher prices in a Time-of-Use fee structure.

“Ensuring guest comfort and controlling energy consumption is a delicate balancing act for Grand Hyatt San Francisco. Verdigris new Adaptive Automation extension for their electrical energy management platform is making it a whole lot easier. We are reducing consumption annually without requiring action by our facilities team and zero impact on guest comfort.”

Ken Keidan, Director of Engineering, Grand Hyatt San Francisco



Continuous Innovation

Adaptive Automation™ is a novel product that enables an energy management strategy known as automated demand management (ADM) that controls equipment autonomously in the background with no involvement necessary from the engineering team, much like autopilot in a self-driving car.

To implement Adaptive Automation™, Hyatt connected Verdigris energy meters to the building's main panel and integrated the system into the building management system (BMS). Then, non-critical equipment in the hotel were identified that could be turned off during peak periods without affecting guest comfort.

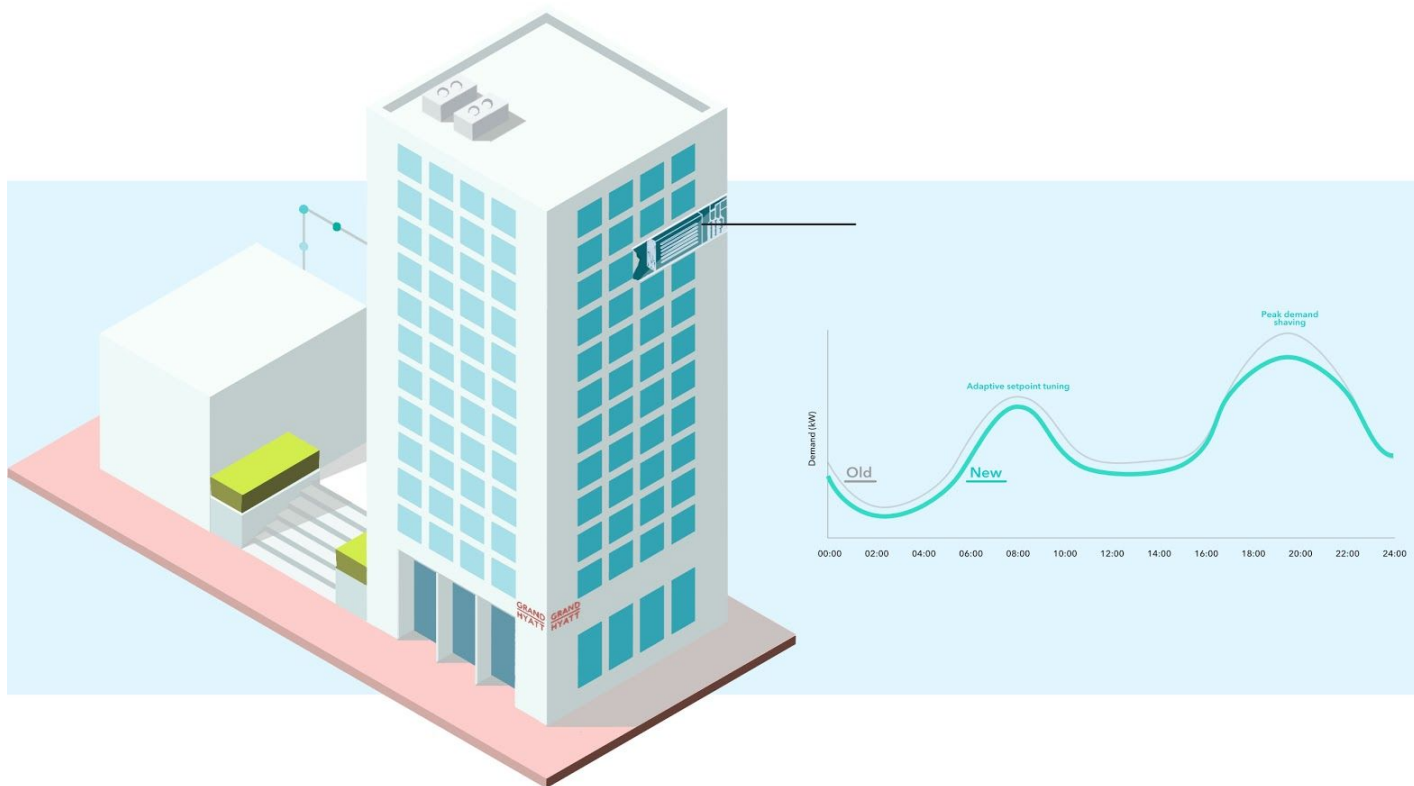
Unlike traditional demand management which uses predetermined values to establish a high threshold, Verdigris AI accounts for more parameters and continuously adjusts the target for peak demand. Verdigris Adaptive Automation™ is dynamic and learns from the building consumption patterns. Verdigris AI uses historical consumption patterns, weather data, and trend forecasting to send commands to the BMS to turn off non-critical equipment when the building approaches a

new peak demand. Savings are achieved for each kilowatt of avoided demand that otherwise would have incurred the expensive demand charge, which can be over \$20/kW.

Because Adaptive Automation™ requires no additional time or effort from the engineering team, it frees them up to focus on other issues or projects in the building while they save money in the background. It's like the "icing on the cake" on top of any other savings identified through energy data transparency, and the Adaptive Automation savings reports offer a nice surprise at the end of the month.

Real Monetary Savings

Cost savings on demand management through Adaptive Automation™ has resulted in greater building optimization and zero effort from onsite personnel. Since installing Verdigris in June 2017, Adaptive Automation has consistently saved the hotel over 20% of the costs of the controlled load, resulting in an average monthly ROI of 41% and earnback of the initial investment in less than 6 months



Is Adaptive Automation™ Right for You?

Verdigris is continuously working to add capabilities to Adaptive Automation™. If your building has a BMS, a time-of-use rate schedule, and if you are looking to dynamically manage energy through monitored control points, then we want to talk with you. You can learn more about compatibility in our Adaptive Automation FAQs.

Contact us today to start saving money on your energy: solutions@verdigris.co
Have questions? Check our [FAQs](#).

About Grand Hyatt San Francisco

Grand Hyatt San Francisco welcomes you with a sophisticated elegance and refined modern style. Located in the heart of the city just steps from famous Union Square, immerse yourself in the shopping, dining, and nightlife scene of San Francisco. Then, retreat to an upscale room where you can unwind with impeccable service. To learn more or book your stay, visit: <https://www.hyatt.com/en-US/hotel/california/grand-hyatt-san-francisco/sfous>