

SUSTAINABILITY

A mega-resort ensures
sustainability is in the cards

Resorts World Las Vegas — Las Vegas, Nevada

Resorts World Las Vegas uses EcoStruxure for Hotels solutions
to become a leader in sustainable and luxurious hospitality.



EcoStruxure™ connected products and software help Resorts World Las Vegas, a LEED Gold-certified property, deliver an unforgettable and sustainable guest experience.

Viva la sustainability

In a city famous for no limits and boundless luck, concepts like responsible consumption may initially appear at odds with its legendary reputation. But Resorts World Las Vegas (RWLV) is one of the city's newest must-see destinations, offering every guest Vegas' infinite bounty in a way that doesn't gamble with our planet's finite resources.

The Las Vegas Strip's first brand new resort in more than a decade, RWLV is built on the grounds of what was once the iconic Stardust resort and casino. It was conceived from the outset to champion sustainability while serving the larger mission of bringing world-class hospitality to guests. "Guest comfort is number one," says Zachary Corbett, Facilities Director at RWLV.

A next-generation building management system is the ace up Corbett's sleeve. Before construction began, RWLV partnered with Schneider Electric to incorporate EcoStruxure Building Operation to automate daily tasks and provide operational visibility. "I was able to help design the building automation system for Resorts World. It's unique in that we're able to create a map of the entire property with locations of every single asset, and it delineates with the walls. Now I can see a physical space within our property and know immediately if it's within a set parameter — if there's a room that's out of the temperature limit, it immediately highlights red and we can remotely adjust."

Goal

Develop an existing construction project into Las Vegas' newest mega-resort while creating a new benchmark for sustainable hospitality on the Strip.

Story

Sustainability was the driving force behind Resorts World Las Vegas' conception and construction, so developers sought a partner that could help this budding landmark set a new standard for sustainable and luxurious hospitality.

Solutions

EcoStruxure™ Building Operation, an integrated platform of building management and analytics tools, helps Resorts World Las Vegas maximize its energy efficiency, water conservation, and renewable energy integration.

Results

- 30% energy savings over baseline
- Streamlined monitoring of hundreds of thousands of data sources
- Reliable power across a mixed-use facility of more than 7M square feet
- Seamless integration of disparate third-party systems



Smart systems enable sustainable luxury

With more than seven million square feet of mixed-use space spread out across 88 acres, that remote management capability is crucial for Corbett and his team. “EcoStruxure’s the platform that we use to monitor hundreds of thousands of data sources throughout our property at any given moment and control the HVAC system,” he says.

Blistering desert temperatures demand a robust and reliable HVAC system. “Chilled or hot water is pumped throughout the property through our air handling system — water is more efficient than having air-cooled refrigeration systems,” Corbett explains.

Building heating and cooling accounts for 15% of global greenhouse gas emissions*, so RWLV’s water-based heating and cooling plays a large role in the resort’s LEED Gold certification — a distinction which means the resort is one of the most energy-efficient buildings in the world.

Its expansive HVAC system is made possible thanks to a massive central utility plant, which enables approximately 24,000 tons of cooling and comprises seven 45-million-BTU boilers and cogeneration. This feeds into three energy transfer stations, which run to the HVAC system. “We have approximately 140 air handlers

30%
energy savings over
baseline



*weforum.org/agenda/2022/02/heating-up-and-cooling-down-climate-innovation



throughout the property and close to 450 fan coils,” Corbett notes, all of which are monitored and controlled by EcoStruxure. “It’s made it seamless to work on equipment from the field. The ability to have a tablet in your hands while you’re working on a piece of equipment is priceless.”

RWLV’s vast footprint isn’t constrained to two dimensions, of course — the 66-story main tower is the centerpiece of a structure that includes 3,506 hotel rooms along with the millions of square feet of event space, gaming, dining, retail, and other entertainment. Outside, a pool complex sprawls more than five acres, and directly above these luxurious water features towers one of the largest LED displays in the U.S.: a 100,000-square-foot digital facade. There are almost as many equipment needs and power processes at play as there are things for guests to do at RWLV.

Corbett elaborates that “the open architecture of EcoStruxure for Hotels allows us to mesh seamlessly with other programs to control a multitude of parameters throughout the property. It’s a holistic view of all our utilities at once.” This comprehensive, streamlined view of data has allowed RWLV to realize an energy savings of 30% over baseline. “One of the great things that EcoStruxure does is monitor live, raw data in our energy transfer stations,” Corbett continues. “That tells us how many BTUs we’re using at any given point, which is a collective of the total energy for the property.” This site-wide visibility into energy use has enabled all three hotels at RWLV — a Hilton, the world’s largest Conrad property, and a Crockfords (one of only five globally) — to each achieve LEED Gold certification.

“The open architecture of EcoStruxure allows us to mesh seamlessly with other programs.”

— Zachary Corbett,
Facilities Director,
Resorts World
Las Vegas



Leave nothing to chance

Remote monitoring and management also allow Corbett's team more time to prioritize the guest experience, as daily effort on routine tasks can be reallocated toward providing amenities that help drive guest scores higher.

"It's taken away from having to dedicate somebody at a computer console," Corbett says. "The openness of EcoStruxure Building Operation, and the ability to be able to log in from anywhere, allows us to streamline our processes."

But this operational agility is about more than saving steps or freeing up staff so they can tackle more important things — it's about the ability to better respond to challenges. And in the context of the climate crisis, speed and resiliency are more important than ever. As effects of extreme weather reverberate with increasing frequency, non-coastal regions like Las

Vegas are as vulnerable to the effects of a warming world: "We have to be able to respond as quickly as possible to changes in weather or our environment to ensure that we're always maintaining guest satisfaction," Corbett says.

An emphasis on resiliency naturally dovetails with the resort's larger efforts toward sustainable operation. RWLV works behind the scenes to contribute toward Las Vegas' city-wide water conservation, waste reduction, and decarbonization commitments. Corbett and his team do their part by implementing smart solutions that advance RWLV's twin goals of sustainability and incomparable hospitality.

As to where the Schneider and RWLV partnership may lead, Corbett says, "We're collectively looking to drive further energy savings with Schneider Electric analytics and digital services platforms. The analytics

"The Schneider Electric solution has allowed us to leave nothing to chance."

— Zachary Corbett,
Facilities Director,
Resorts World
Las Vegas

Resorts World Las Vegas at a glance:

- LEED Gold-certified hotel tower
- 3,506 hotel rooms across 66 floors
- 7M+ square feet of mixed-use space
- 24,000 tons of cooling and seven 45M-BTU boilers make up the resort's HVAC system



side of the platform can help us ensure that the decisions we're making today will help us in the future. We want to remain the trendsetters and stay five years ahead of our competitors through innovation and sustainability. The Schneider Electric solution has allowed us to leave nothing to chance."

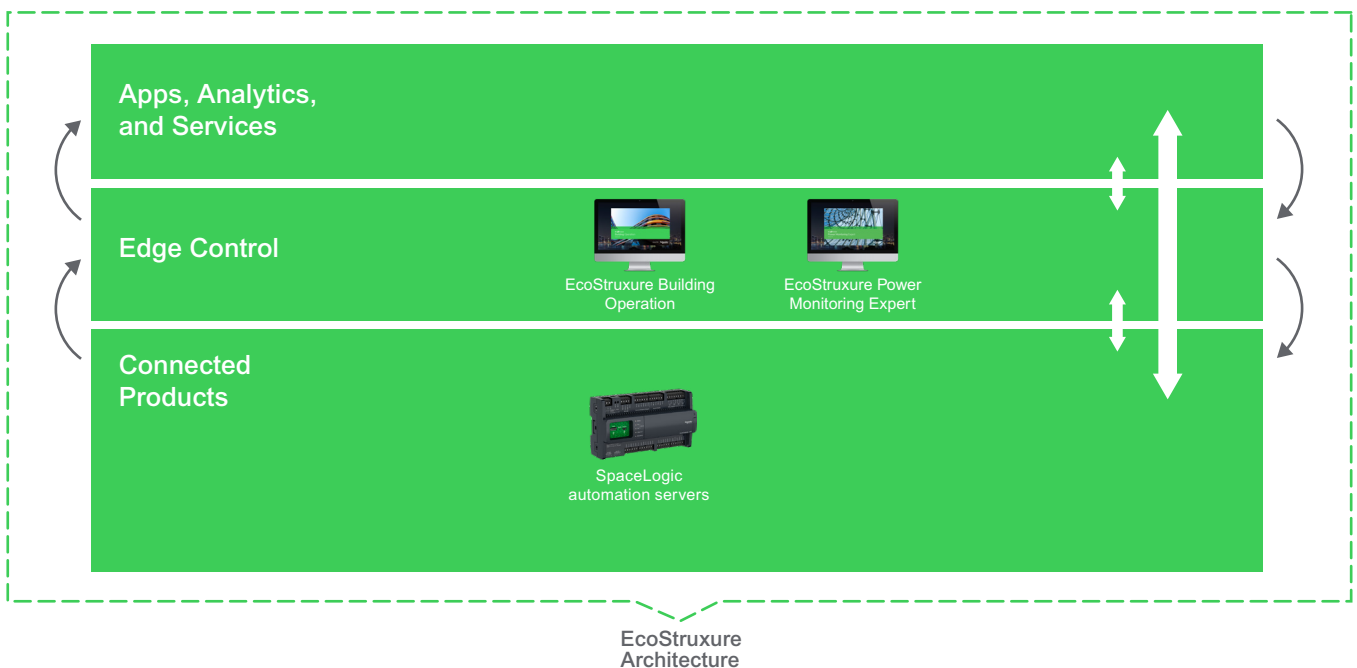
This mix of vision and action thrives in Las Vegas, as the city's embrace of smart

solutions and sustainability are as much a part of its modern identity as neon lights and the Rat Pack were to its history. Whether past, present, or future, there's one intangible resource that will always be indivisible from Las Vegas' identity: a belief that fortune favors the bold. And RWLV is bringing that into the future by proving that the bold favor sustainability.

LEED

Gold-certified tower

EcoStruxure™ for Hotels
Innovation At Every Level



EcoStruxure™

Innovation At Every Level

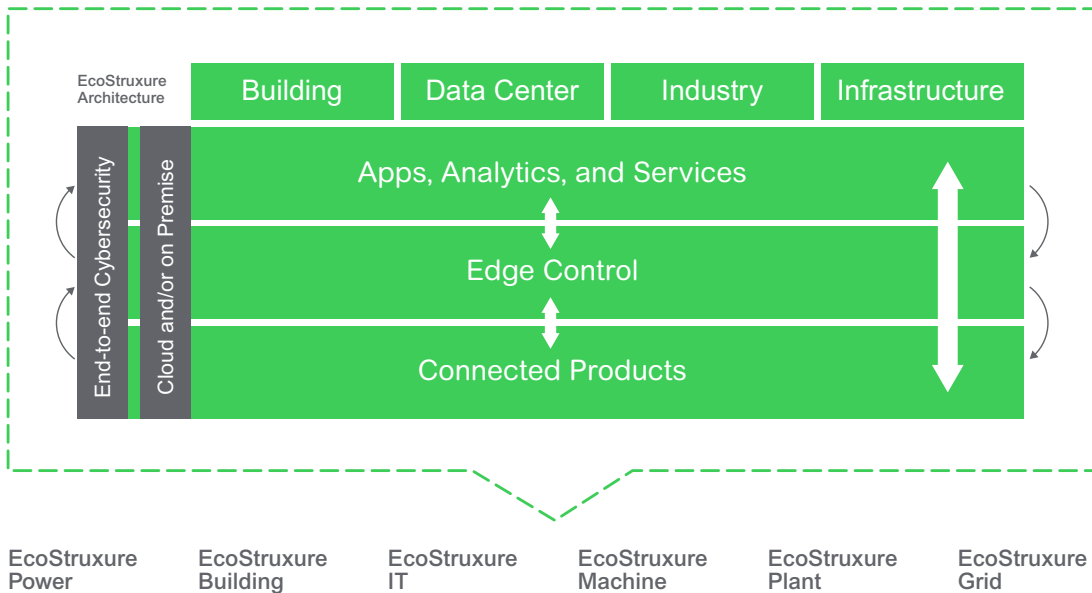
IoT-enabled solutions that drive operational and energy efficiency

EcoStruxure is Schneider Electric’s open, interoperable, IoT-enabled system architecture and platform.

EcoStruxure delivers enhanced value around safety, reliability, efficiency, sustainability, and connectivity for our customers.

EcoStruxure leverages advancements in IoT, mobility, sensing, cloud, analytics, and cybersecurity to deliver Innovation at Every Level including Connected Products, Edge Control, and Apps, Analytics, and Services. EcoStruxure has been deployed in 480,000+ sites, with the support of 20,000+ system integrators and developers, connecting over 1.6 million assets under management through 40+ digital services.

One EcoStruxure architecture, serving four end markets with six domains of expertise



Connected Products

The Internet of Things starts with the best things. Our IoT-enabled best-in-class connected products include breakers, drives, UPSs, relays, sensors, and more. Devices with embedded intelligence drive better decision making throughout operations.

Edge Control

Mission-critical scenarios can be unpredictable, so control of devices at the edge of the IoT network is a must. This essential capability provides real-time solutions that enable local control at the edge, protecting safety and uptime.

Apps, Analytics, and Services

Interoperability is imperative to supporting the diverse hardware and systems in building, data center, industry, and grid environments. EcoStruxure enables a breadth of agnostic Applications, Analytics, and Services for seamless enterprise integration.

[Find out more about EcoStruxure.](#)

Learn more



[Read more success stories.](#)



[EcoStruxure for Hotels](#)



[EcoStruxure Building Operation](#)



[EcoStruxure Power
Monitoring Expert](#)



[Software solutions](#)



[Sustainability consulting](#)

Schneider Electric

One Boston Place
201 Washington Street, Floor 27
Boston, MA 02108 USA
Phone: + 1 617 904 9422

se.com

January 2023

©2023 Schneider Electric. All Rights Reserved. Life Is On Schneider Electric is a trademark and the property of Schneider Electric SE, its subsidiaries and affiliated companies. All other trademarks are the property of their respective owners.

998-22331047_GMA-US