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Evolve to Green Technologies
UPM GROUP
UNIVERSAL BUILDING SOLUTIONS

Ojos Surgery Center

Project Profile

Market segment
Health care

Location
San Juan, Puerto Rico, United States

Total area
3,623 m^2 (39,000 ft^2)

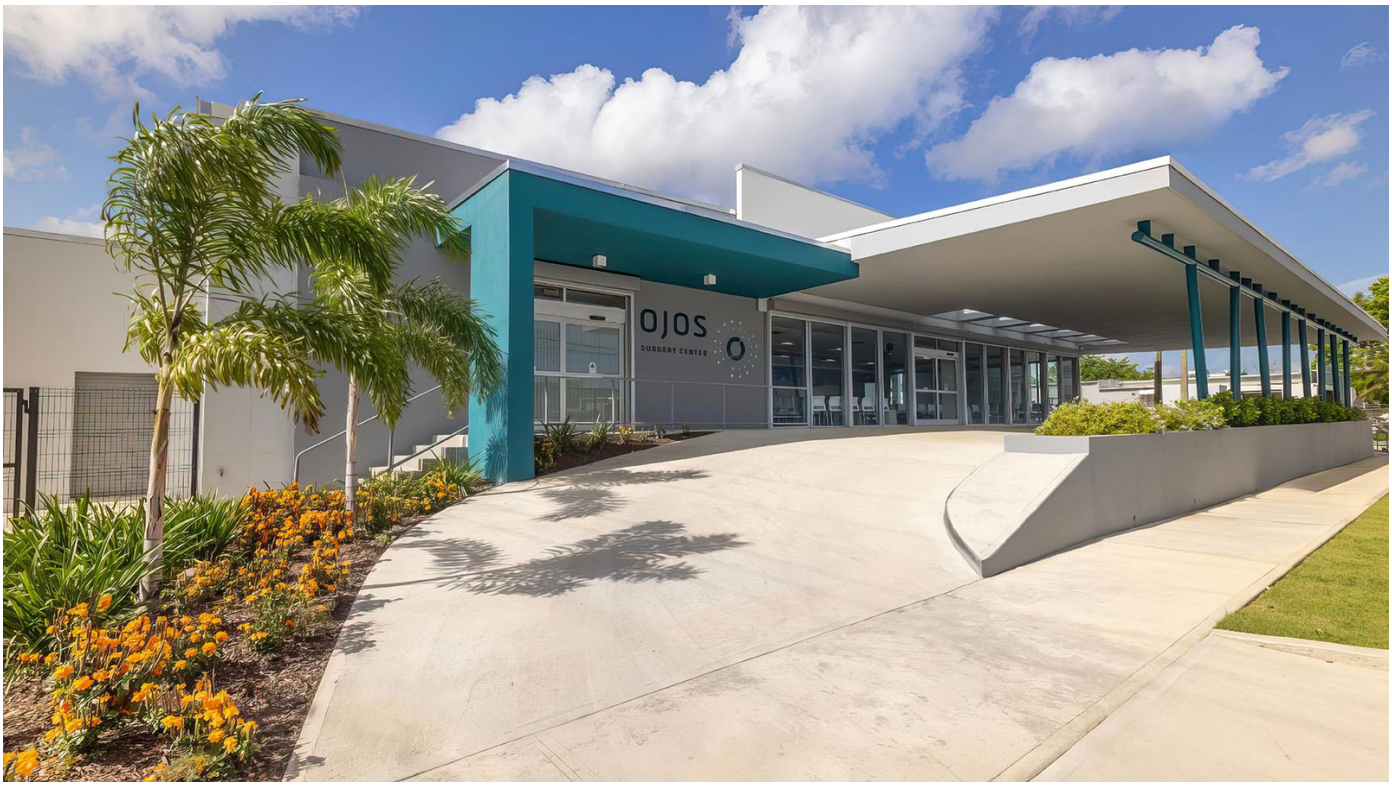
Project type
New Construction and retrofit

Protocol
BACnet

Installation type
HVAC

Ojos Surgery Center is a modern ambulatory surgical facility in Hato Rey, Puerto Rico. As part of a major relocation and expansion project, the center moved from its original location in Santurce to a newly renovated and enlarged space that spans over 3,623 square meters (39,000 square feet). The project involved significant alterations to an existing structure and the addition of more than 465 square meters (5,000 square feet) of new construction to accommodate equipment, a spacious entrance, electrical and gas rooms, and a garage.

Designed to support advanced surgical care and patient comfort, the facility features six operating rooms and upgraded infrastructure that includes Reliable Controls technology to ensure safety, efficiency, and long-term sustainability.



Total system objects
79

Integrated equipment
Carrier chillers

Installed equipment

3 MACH-Pro1™ controllers

5 MACH-Pro2™ controllers

1 MACH-ProWebCom™ controller

1 MACH-ProZone™ controller

30 SMART-Sensor™ devices

6 SMART-Space™ Controller devices

Installed software

RC-Studio®

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To meet the demands of an outpatient facility, Ojos Surgery Center required a building automation system that could deliver exceptional reliability, energy efficiency, and environmental control. When UPM Group Building Solutions took on the challenge of integrating building systems in the newly renovated facility, it turned to Reliable Controls.

The project involved retrofitting and expanding the existing building to meet strict surgical standards, including maintaining controlled humidity and temperature levels in several critical spaces. Using a combination of heat recovery units and a sophisticated control sequence, UPM Group optimized energy use while ensuring patient safety and comfort. The system recovers heat from the chillers and redistributes it to reheat coils in humidity-sensitive rooms, an efficient approach that reduces energy consumption without compromising performance.

Reliable Controls technology provided the flexibility, integration, and remote access needed to deliver on the client's priorities. The facility features a network of MACH-Pro1, MACH-Pro2, MACH-ProZone, and MACH-ProWebCom controllers for seamless BACnet integration across equipment. Thirty SMART-Sensor and six SMART-Space Controller devices give building staff granular control of temperature and humidity across individual zones.

With RC-Studio software, UPM Group tailored the building automation system to meet the center's unique medical needs. The software's intuitive interface and powerful integration capabilities enabled the UPM team to develop a custom monitoring solution that tracks humidity parameters and energy consumption 24/7. Remote access ensures technicians can respond quickly and make adjustments in real time—an essential feature in a facility where environmental conditions must remain stable and precise.

Thanks to the Reliable Controls system, Ojos Surgery Center now benefits from improved comfort, energy savings, and peace of mind while supporting world-class patient care.