

Project Type

Education

Size

200,000

Services Provided

Commissioning Authority.
Commissioned systems include mechanical, electrical and control systems.

Completion Date

2014

Owner

San Diego State University

Architect

Cannon Design

Contractors

O'Connor Construction
Management (GC not at risk)
Sundt Construction (GC at Risk)
University Mechanical (HVAC)
Berg Electric (Electrical)
Dynalectric (EMCS)

References

<https://as.sdsu.edu/aztec-student-union/content.php?sub=15>

LEED Certification

Platinum



In 2014 SDSU received a New Student Union Building containing several restaurants, a bowling alley, theatre, and ballroom for events. This building is designed to provide sustainable construction for a new generation of students and faculty. After working with Taylor Engineering the SDSU Aztec Student Union received a LEED Platinum rating.

Every aspect of the mechanical systems installed at SDSU make significant strides in energy reduction. On-site renewable energy sources, such as the 356kW solar panels on Parking Structure 1, reduce carbon consumption. The unique floor system uses concrete structural slabs to provide both heating and cooling mass at no additional energy cost. This comes alongside a green roof, which reduces an undesired heat while providing a natural ecosystem. The building also collects unused rainwater and uses enhanced stormwater control to remove pollutants from water run-off.

To bring the outside environment into the building itself sustainable engineering uses natural daylight to provide spaces with soft, even light and reduces dependence on artificial lighting, while operable windows provide increased ventilation control and effectiveness.