

Project Type

Data Center

Size

250,000

Services Provided

Peer review of HVAC and controls design at each phase. Author and "keeper" of all HVAC control sequences for all phases. Trend reviews and functional testing in order to continually update and optimize the control sequences to inform the design of subsequent phases.

Completion Date

2013

Owner

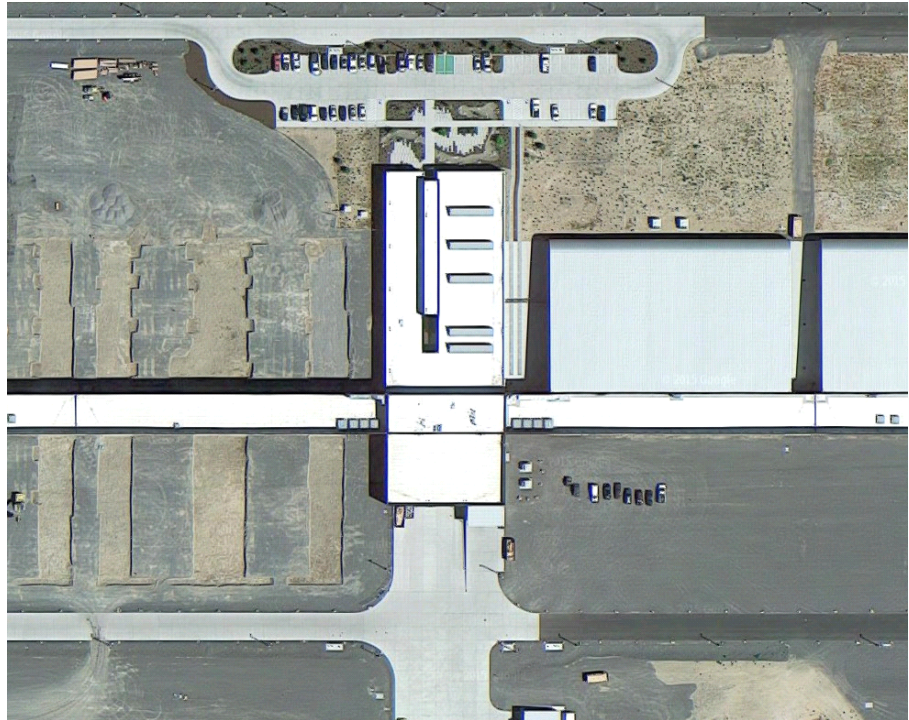
non-disclosure (a Fortune 100 company)

Architect

Corgan Associates, Inc.

References

Upon Request



The Central Oregon Data Center is a 40 MW Tier IV data center with multiple data halls, network rooms, electrical rooms, and office spaces. This project required a phased build out, with Phase I completed in 2013 and additional phases completed 2014-2018.

The HVAC system required for this project spanned data halls, network, and electrical rooms. These areas are served by direct evaporative cooling (DEC) air handlers, without mechanical cooling. Office spaces are ventilated by dual duct VAV boxes and cooling is provided by air handlers with airside economizers, indirect evaporative cooling, and supplemental DX. Office heating is accomplished through data hall heat recovery. Additionally, DEC makeup water is stored in multiple storage tanks and DEC blowdown is stored in tanks and used for irrigation and toilets.