

Data Center 2 Specifications



EasyStreet's Type II SSAE 16-audited Data Center 2 is designed and built to be reliable, secure, versatile and sustainable.

UNIQUELY DESIGNED FOR EFFICIENCY AND EXCEPTIONAL PUE

The new data center incorporates innovative technologies and methodologies designed to reduce energy consumption, and should achieve a Power Usage Effectiveness (PUE) of 1.3 or better.

In addition, the data center parking lot will include an electric vehicle charging station for use by EasyStreet customers and employees.

FIRST DATA CENTER PROJECT TO QUALIFY FOR OREGON SELP FUNDING

Because of the energy efficiencies gained compared to conventional data center designs, this is the first data center project to qualify for funding through the Oregon Department of Energy's State Energy Loan Program (SELP). With the help of Energy Trust of Oregon, EasyStreet played a pioneering role in developing the Oregon Department of Energy's expertise in the area of efficient data center design.

OUR CUSTOMERS CAN 'GO GREEN' WITH NO SURCHARGE

EasyStreet procures 100% Portland General Electric Clean WindSM power offsets for both data centers as well as our offices. Although it may cost more to build than a conventional facility — and although renewable power will cost us a premium — the efficiencies gained by design means we can provide our services with no "green surcharge" to our customers.

FUTURE LOW POWER CONSUMPTION MAINTAINS COMPETITIVE PRICING

We expect Data Center 2 will have the highest power density of any commercial facility in the state. Because our energy consumption will go up more slowly than it will in conventional facilities, EasyStreet anticipates we can maintain competitive pricing in the future, even as data center power consumption in general continues to accelerate.

OVERVIEW OF SITE SPECIFICATIONS

Physical Specifications

- Data Center 2 has over 7,000 square feet of usable floor space.
- 280 cabinets (with cages available).
- On flat, stable ground with no known faults, flood plains, flight paths or other geological threats.
- Cages and cabinets bolted to concrete floor.
- A new roof with seismic upgrades to meet current codes, installed fall of 2009.
- Data center floor is static dissipative. Lobby area for equipment prep with Internet access.
- Escorted loading dock directly adjacent to the data center.
- 24/7 Network Operations Center provides monitoring and incident management.
- Ample and convenient parking.

Mechanical System

An innovative Indirect Evaporative Cooling (IEC) system from AMAX[®] is key to efficiency and outstanding PUE. Direct Expansion (DX) packages provide supplemental cooling when required. (Estimated need is only 180 hours per year.)

- Fifteen IEC units in an N+2 configuration.
- Each IEC unit is connected to a shared supply and return trunk, allowing any spare unit to replace any failed unit.
- Humidity is controlled with ultrasonic humidifiers operated by the master control system.
- Overhead duct work distributes cooled air throughout the data center.
- The equipment cabinets are part of the cooling system. Chatsworth Products, Inc. (CPI) passive chimney cabinets are connected to the overhead return air duct work. They gather hot exhaust air and route it to the roof for processing.

A 25,000-gallon underground tank collects rainwater from the roof. It is filtered and used by the IEC units to cool the hot air exhausted through the return duct. Reclaimed water is supplemented by city water when necessary. 100% of our water usage is offset by Bonneville Environmental Foundation Water Restoration Certificates.

Both EasyStreet data centers employ a highly-sensitive VESDA aspirating smoke detection (ASD) system. Alerts are enunciated in the NOC and alarms are sent to a third-party alarm company. A gas-free, pre-action sprinkler system provides fire suppression.

Power Infrastructure

- Power density is ~200 watts per square foot (5 kW per cabinet).
- A/B 225-amp 120/208V isolated ground Starline buses PDUs and circuit breakers.
- Power is monitored per circuit at the Starline bus tap.



- Each bus has independent circuit protection.
- Power is stepped down using harmonic mitigating transformers.
- Transformers are powered by Eaton/Powerware 9395 825 N+1 Uninterruptible Power Supplies (UPSs) using VYCON flywheels as their power source. Each UPS is internally N+1. Each UPS has N+1 flywheels.
- UPSs are powered through a Square-D switchgear platform.
- The switchgear is powered by a dedicated 4 MW PGE utility feed and 480/277 V 2500 kVA transformer and parallels four 600 kVA Kohler diesel generators in an N+1 configuration.

Safety/Access Control/Surveillance

Data Center 2 is monitored by the EasyStreet NOC 7/24/365. Systems monitored include infrastructure power

monitoring, customer branch circuits, data center temperature and humidity, generators, switchgear, UPSs, cooling plant and life safety.

- Accessible 24/7 for authorized customer personnel.
- Electronic prox card with photo and fingerprint ID block unauthorized access.
- Monitored for intrusion detection with internal alarming and external security service.
- All access is logged.
- Video cameras with 90-day recording provide internal and perimeter surveillance.

Network Infrastructure

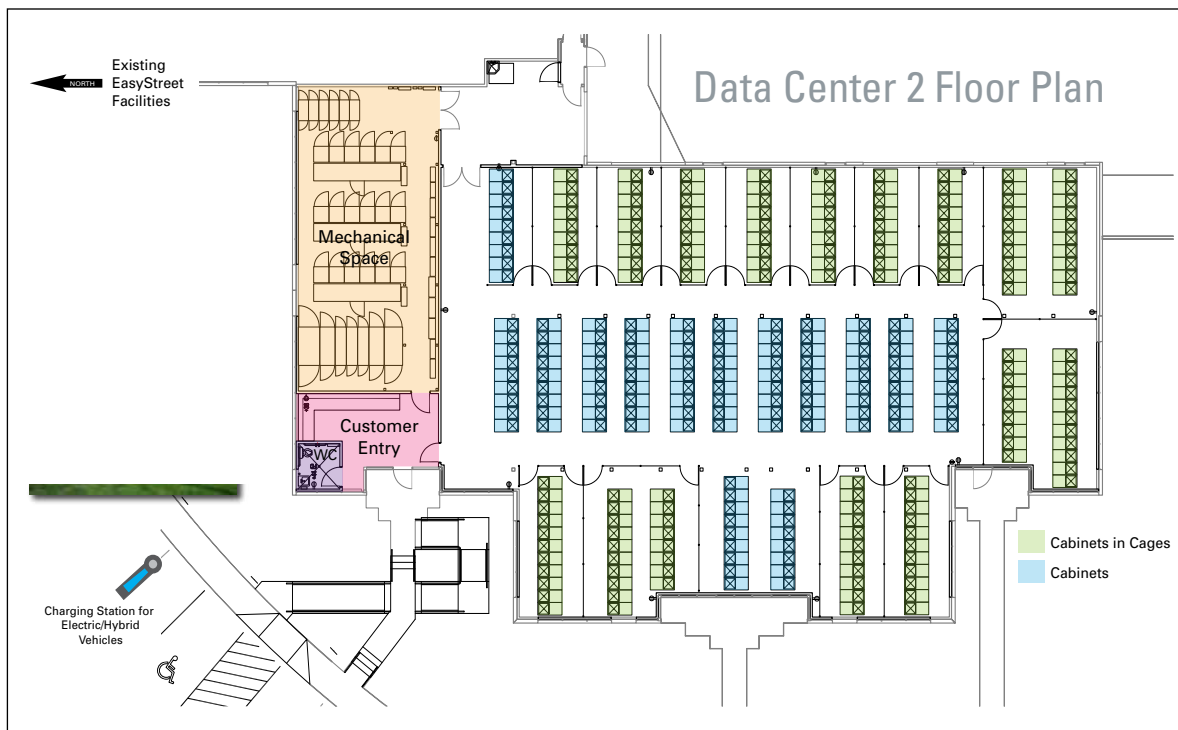
- The new data center has a direct fiber path to EasyStreet Data Center 1 at 9705 SW Sunshine Court.
- Tier-1 upstream Internet providers: AboveNet, CenturyLink and Level 3 on GigE fiber.

- Carrier-neutral facility with multiple providers: AboveNet, CenturyLink, Level 3, Comcast, Freewire Broadband, Frontier, Integra, LS Networks and Time Warner.
- Connectivity to the Pittock building via redundant ring.

Optional System Monitoring

- Proactive monitoring in EasyStreet's NOC of customer applications and/or infrastructure.
- Centralized monitoring tools and SNMP agents.
- Customized thresholds.
- Customized monitoring: Hardware availability, OS/Server performance, Application and/or Web site availability and performance.

For more information, or to schedule a tour, call 503-646-8400 or contact info@easystreet.com.



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