



BAR01

Calle 25, n°6
Parc Logístic de la Zona Franca
08040, Barcelona, Spain
Site Coordinates: 41.341710, 2.129426

This world-class facility is centrally located near downtown Barcelona in the leading tech center of Southern Europe.



Leading energy efficiency

with 1.15 PUE, which is 72% less overhead energy than the industry average.¹



Advanced waterless cooling

technology conserves precious local water resources.



Supports AI-driven rack densities

up to 70 kW/rack with air cooling and 200 kW/rack with plug and play liquid cooling integration.



Real-time monitoring and 24/7 onsite support

ensure the facility operates at peak performance.

22 MW

CRITICAL CAPACITY

24,350+ m²

FACILITY SIZE

25 kV

UTILITY SERVICE

CONTACT@EDGEDENERGY.COM
WWW.EDGED.ES/BARCELONA

Industry-leading performance and sustainable design

BAR01 connects directly to the Barcelona Cable Landing Station, delivering secure, low latency links to North America, South America, Asia, Africa, Europe and the Middle East. The state-of-the-art facility is uniquely optimized for both energy and water efficiency and is powered by 100% renewable energy with ultra-clean backup power systems.



Facility Carbon Savings²
24,900,000 kg CO₂e/yr



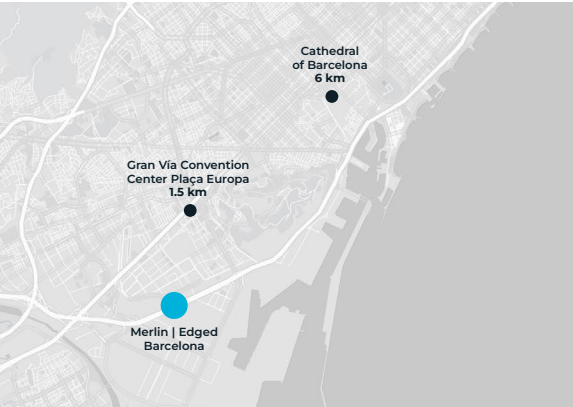
Facility Water Savings³
320,500,000 liters/yr



Biofuel Standby Power
Standby generators powered by hydrotreated vegetable oil (HVO) reduce their CO₂ emissions by 90%



Solar Glass
Photovoltaic glass panels cover the facility and provide renewable energy



GENERAL

Status	Operational
Construction	New build; four stories, concrete slab and structural steel
Loading Dock	Two bays
Certifications	ISO 9001, ISO 14001, ISO 50001, ISO 27001, ENS level HIGH, PCI-DSS
Access	24x7
PUE	1.15 PUE
Reliability SLA	100% uptime, Tier III Design

COOLING

System	Modular waterless system Glycol heat transfer with air cooled chillers Closed loop evaporators provide secondary cooling
Hot Aisle Containment	Flexible designs ranging from 250 kW to 2.5 MW
Service	Uninterruptible maintenance outside of white space
Reliability	N+1 redundancy; Dual power source; 2N piping

¹ Compared with global average data center efficiency PUE 1.54 (Uptime Institute, 2025).
² Compared with global average efficiency and Spain average grid carbon intensity (European Environment Agency, 2022). Assumes 60% utilization of data center capacity.
³ Compared with industry average WUE 1.8 (Lawrence Berkeley National Laboratory, 2016).

POWER

Utility Provider	Endesa
Utility Power	Radial
Utility Voltage	25 kV
Power Delivery	Revenue-grade, transparent, real-time metering
UPS	Battery backup supporting all electrical and mechanical systems; N+1 redundancy
Generators	25.6 MW of backup power in a redundant configuration
Configuration	N+1

TELECOM

Telco Duct Banks	Three diverse entry points
Carrier Neutral	Multiple carrier access
Meet-Me Rooms	Two available

SECURITY

Exterior	Perimeter fencing Access gates
Interior	Biometric readers, ID badges, CCTV
Interior	24/7 manned security