PROJECT SPOTLIGHT

ncs

PETROLEUM GEO-SERVICES (PGS)
DATA CENTER MODERNIZATION

FIBER INFRASTRUCTURE BUILT FOR DENSITY, SPEED AND SCALE

PROJECT SNAPSHOT

CLIENT
Petroleum Geo-Services (PGS)

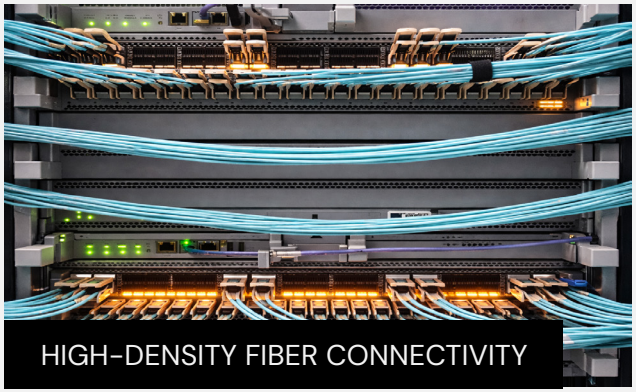
LOCATION
Houston, TX

SPACE
112,000 sq. ft.

NCS SCOPE
Structured Cabling and Fiber Optic Infrastructure Modernization

THE PROJECT STORY

DATA CENTER FACILITY



HIGH-DENSITY FIBER CONNECTIVITY

112,000
SQ. FT. DATA CENTER

100%
SELF-PERFORMED

100G+
UPGRADE PATH

BUILT FOR THE FIRM'S FUTURE.

NCS shifted the data center toward a fiber-first foundation, reclaiming capacity from underused copper and creating a scalable path to higher port density and 100G+ networking within the existing footprint.

THE CLIENT

PGS provides offshore seismic data acquisition and processing services for the oil and gas industry. Its Houston data center supports remote seismic processing and interpretation workflows for global exploration and production teams, making high-performance, dependable connectivity critical to daily operations.

THE CHALLENGE

The facility was originally built with both Cat6A copper and fiber. Over time, copper utilization fell to roughly 4% while fiber demand continued to increase. Legacy cabling was consuming valuable rack and pathway capacity just as PGS needed greater density and a practical path toward 100G networking.

THE SOLUTION

NCS removed underutilized copper infrastructure and repurposed the reclaimed space for a denser fiber architecture. The modernization supports flexible cassette and MPO expansion, increases speed and port-density options, and gives PGS a clear migration path from 10G to 100G+ without expanding the physical footprint.

FROM LEGACY COPPER TO A FIBER-FIRST DATA CENTER.

NCS modernized the existing cabling, reclaimed usable capacity, and deployed modular fiber infrastructure designed to support higher density today and continued network evolution over time.

INFRASTRUCTURE MODERNIZATION

LEGACY COPPER REMOVAL
Complete removal of underutilized copper infrastructure

FIBER CASSETTE DEPLOYMENT
New fiber cassette infrastructure installed in reclaimed space

PATHWAY / RACK CAPACITY
Existing footprint repurposed for higher-density connectivity

MIGRATION PLANNING
Clear upgrade path from 10G to 100G+ capabilities

COMMSCOPE TECHNOLOGY PARTNERSHIP

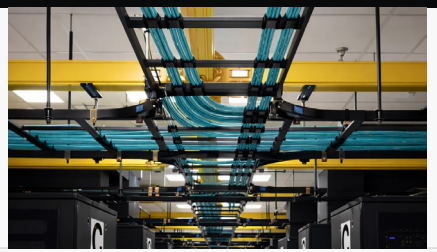
NCS collaborated with CommScope on a modular approach that allows PGS to increase cassette port counts or integrate MPO adapter plates for maximum density.

DESIGNED FOR DENSITY, SPEED & SCALE

01 FIBER CASSETTE INFRASTRUCTURE

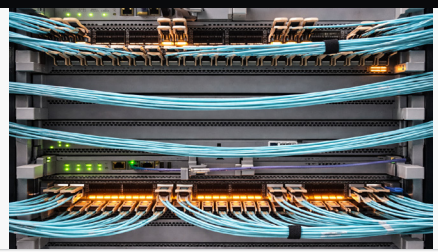
High-density fiber connectivity deployed in space reclaimed from legacy copper.

02 MPO FIBER EXPANSION



Scalable MPO architecture supports future fiber growth and changing port-count requirements.

03 10G TO 100G+ MIGRATION



Infrastructure positioned for higher network speeds as processing demands increase.

04 SAME-FOOTPRINT SCALABILITY

Greater density and speed options without requiring additional data center footprint.

PREPARING FOR A MOVE, RENOVATION, OR TECHNOLOGY REFRESH?

Contact NCS to plan your cabling and AV from day one.

281-484-1777 SALES@NCS-TX.COM WWW.NCS-TX.COM

TEXAS OFFICE LOCATIONS

- HOUSTON
- GALVESTON
- DFW
- CORPUS CHRISTI
- RIO GRANDE VALLEY