PROJECT SPOTLIGHT

NATIONAL MICROGRID PROVIDER

FIBER INFRASTRUCTURE FOR A REMOTE TEXAS MICROGRID

FUSION SPLICING, FIBER HARDWARE, BIDIRECTIONAL TESTING AND CLOSEOUT DOCUMENTATION

PROJECT SNAPSHOT

CLIENT
National Microgrid Provider

LOCATION
Remote Texas

PROJECT
New Microgrid Site

NCS SCOPE
Fiber Terminations, Hardware, Testing & Documentation

THE PROJECT STORY

PROJECT SITE

SITEWIDE INFRASTRUCTURE

800+
FUSION SPLICES

49
FIBER CABLES TESTED

20
GENSETS IN SCOPE

THE RESULT

Fiber terminations and testing were completed within the client's schedule, establishing verified connectivity across critical microgrid compounds. Organized fiber hardware and complete electronic test documentation gave the project team a clean, scalable backbone ready for commissioning, monitoring and future expansion.

THE CLIENT

A national provider of modular natural gas microgrids delivers rapidly deployable, scalable power for large energy users. Its systems help bring new capacity online quickly and support more than 1 gigawatt of power across 50 U.S. markets.

THE CHALLENGE

At a fast-moving, remote Texas construction site, fiber had been installed by others, but every termination still had to be completed, verified and documented before commissioning. NCS worked around multiple trades, strict daily safety and permit-to-work requirements, and aggressive deployment milestones.

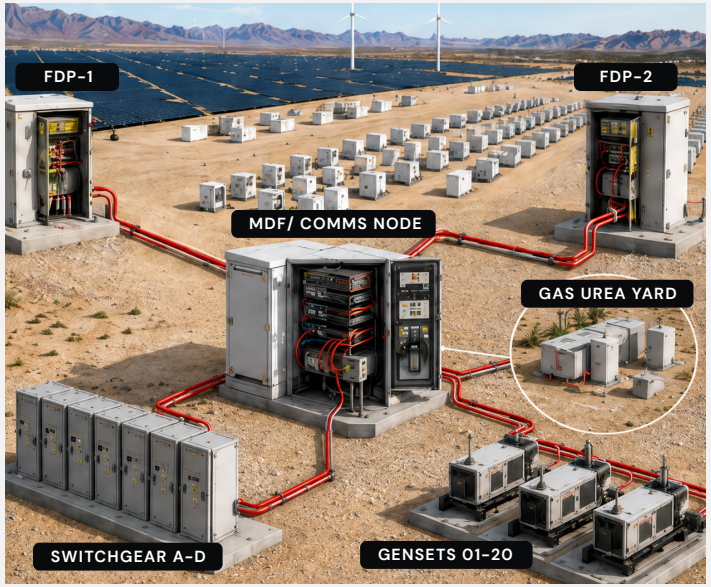
THE SOLUTION

NCS completed more than 800 fusion splices across the VGLAN and JBLAN networks, installed CommScope EPX and WBE fiber housings and splice cassettes, and performed Tier 1 and Tier 2 bidirectional testing on 49 fiber optic cables using OTDR and OLTS methods. Complete electronic test reports were delivered at closeout.

FFROM TERMINATION TO TEST RESULTS, EVERY LINK VERIFIED.

NCS converted installed fiber into a commissioning-ready communications backbone by terminating, organizing, testing and documenting the connections that link key microgrid systems.

FIBER INFRASTRUCTURE ACROSS THE SITE



800+ FUSION SPLICES
Across VLAN and JBLAN networks

COMMSCOPE HARDWARE
EPX/WBE housings and splice cassettes

49 FIBER CABLES
Tier 1 + Tier 2 bidirectional testing

OTDR + OLTS
Electronic reports delivered at closeout

TESTED, DOCUMENTED AND READY FOR COMMISSIONING

Bidirectional test results verified fiber performance, while organized hardware and complete closeout documentation gave the client a dependable foundation for commissioning and long-term monitoring.

TERMINATION, HARDWARE, TESTING AND CLOSEOUT

01 FUSION SPLICING

800+ fusion splices completed across the VLAN and JBLAN networks, linking the MDF, FDPs, switchgear, Gas Urea Yard and gensets.

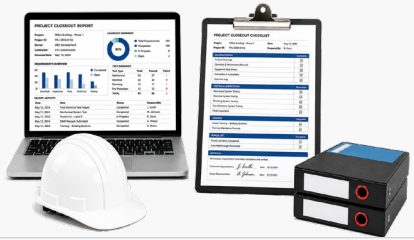
02 FIBER HARDWARE

CommScope EPX fiber panels and WBE wall boxes with G2 splice cassettes installed at multiple locations to keep fiber organized and scalable.

03 TIER 1 + TIER 2 TESTING

Bidirectional OLTS and OTDR testing performed on 49 fiber optic cables to verify performance and support commissioning.

04 COORDINATION + CLOSEOUT



Daily safety and permit-to-work requirements, electrical contractor coordination, and complete electronic reports supported an on-schedule closeout.

PREPARING FOR A MOVE, RENOVATION, OR TECHNOLOGY REFRESH?

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

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TEXAS OFFICE LOCATIONS

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