

Fiber Optics Services

Next Generation Network Infrastructure Engineering and Construction

Bandwidth is the name of the game today. From consumers' use of smartphones and online video to businesses moving toward cloud computing or even networks to monitor energy services, public safety and other applications, network traffic is increasing exponentially. Across all industries, the common denominator for meeting these capacity demands is fiber optics.

NextGen was founded to serve the communications industry by offering design, build and maintain services. The company has invested heavily in employee training, work processes, tools and test equipment to ensure its leadership position in fiber optics engineering, construction, splicing and testing.

This combination has enabled nextGen to deliver a lengthy track record of next generation fiber optic networks built for a variety of applications, including:

- FTTx
- WANs, MANs and LANs
- HFC
- Data Centers
- Wireless Backhaul
- Wind Farms
- Smart Grids
- Intelligent Traffic Systems

Flexible, Experienced Fiber Optics Partner

A smart grid in Vermont, wind farm in Maine and FTTx network in New Hampshire are just a few of the examples that highlight nextGen's ability to work in a variety of fiber optic network environments and applications.

Whether the engagement is an end-to-end fiber optic network build or an individual project, nextGen operates as an extension of its customer's team and uses a detailed, consultative approach to project management for completing projects on-time and on-budget.

The end result is a well-earned reputation as a fiber optics expert that always delivers high-quality, professional results.



Turnkey Fiber Optics Expertise

NextGen offers a full suite of services for designing, building, testing and maintaining any fiber-based next generation network. The company's fiber optics services include:

✓ Engineering

- Route Selection
- Network Design
- Loss Budget Analysis
- As-Built Documentation

✓ Construction

- Strand & Lash
- Aerial Self Support (ADSS)
- Underground
- Inner Duct
- Rack & Panel Installation
- Emergency Restoration

✓ Splicing

- Single & Mass Fusion
- Single Mode & Multi Mode
- All Cable Types including ADSS & OPGW
- Ring Cuts
- Cut Overs
- Turn Up
- Emergency Restoration

✓ Testing

- Fiber Characterization (CD/PMD) Testing
- DWDM/CWDM Testing
- OTDR & Power Meter Testing
- Reel Testing
- Documentation

About nextGen

NextGen Telecom Services Group offers communications network infrastructure engineering, construction and fiber optics services to service providers, enterprises, government and municipal customers throughout the eastern United States. More information about the company and its services is available at www.ngengroup.com.

TDS Telecom FTTx network built by nextGen:

After an exhaustive review of the bidders' overall capabilities, TDS Telecom selected nextGen as its contractor for the FTTH/FTTN network based on its comprehensive portfolio of services, fiber optics experience, project management skills and competitive pricing.

Key network facts:

- 35,000 fusion splices
- 100+ miles of aerial construction
- 5 miles of underground construction
- 4,100 households passed

