

# WIRELINER

**B**echtel's customers count on us for our wireline deployment expertise. Bechtel has deployed a wide range of communications solutions including traditional technologies such as copper and coaxial along with more than 23,000 km of fiber within cities, across national boundaries, and linking continents undersea.

Our proven work processes for turnkey wireline deployment include program management, network planning, ROW, community relations, OSP/ISP engineering, procurement, construction, equipment installation, and testing and commissioning.

## HIGHLIGHTS

- » Engineered optimum fiber hub placement and fiber routes for FTTH deployment to over 350,000 homes across the U.S.
- » Managed the design and construction of an 1,800 km fiber backbone through four European countries and two undersea crossings in 1 year
- » Designed and constructed over 5,100 km of fiber, 29 POPs and 2 NOCs throughout Europe in 2 years
- » Provided program/construction management for a hybrid fiber coax network FTTH deployment to 650,000 homes in California and Florida
- » Designed and constructed metropolitan fiber loops to connect more than 30 cities in the U.S., including more than 1,600 km of fiber optic cable
- » Designed and installed a fiber network linking 14 cities across Germany with a 2,400 km continuous ring in a record-setting 18 months
- » Provided program management of 11,000 km of fiber, 1.5 million fixed lines, 60 switching centers, and 1,500 GSM sites in Saudi Arabia

## KEY PROJECTS

### VERIZON FTTP

**Overview:** A program to extend fiber-optic connectivity from Verizon's central offices to its customers+' homes or businesses for a full-service network. Bechtel's responsibilities included engineering optimal locations for neighborhood fiber hubs, followed by the engineering of the fiber routes on either aerial or buried paths. Bechtel provided engineering services for Verizon's FTTP project in the Western and Mid-Atlantic Regions.



### METROMEDIA FIBER NETWORK

**Overview:** A program to provide metropolitan fiber loops to more than 30 U.S. and Canadian cities. Bechtel provided professional services ranging from feasibility studies, to engineering, to construction management, as well as OSP engineering. Bechtel designed and constructed over 1,600 km of fiber-optic cable and 232 nodes, POPs, and data centers.



### VIATEL CIRCE

**Overview:** A state-of-the-art, pan-European fiber-optic network for Viatel consisting of three long distance rings totaling 5,100 km, including two undersea crossings of the English Channel. Bechtel provided program management, ROW and permitting, community relations, engineering, design, equipment installation, and construction management for the fiber network, 29 POPs, and two NOCs. Bechtel managed over 40,000 required ROW permits.



8/2010 9095



## BECHTEL POWER

Frederick, Maryland USA  
301-228-8609  
bechtel.com

San Francisco

Houston

London

Brisbane