

# A Revolutionary Intracity Data Center Connectivity with the Best-in-Class Fiber Optic



## Ensuring Data Network Reliability with OPGW Connection

The need for computing and other networking equipment is increasing day by day – catalyzing the modernization of data centers.

Some business applications cannot afford to have any delay or latency in receipt of information that are required by them. A data center closer to the business means quick access to information and lower levels of latency for the business. With large business clusters majorly developed in cities, city-center data centers are critical for a growing economy. Sterlite Power has come up with a game-changing innovation in intracity data center fiber connectivity – a need of the hour. This solution directly addresses the expectations set by the new-age customers like OTTs and enterprise carriers.

### THE CHALLENGES

In addition to location, price, and scalability; uptime & reliability are arguably the key considerations when it comes to choosing an optical fiber connectivity partner. A good choice of fiber connectivity means an optimized infrastructure and application environment, capable of reaching the entire audience, and serving them better. On the flip side, poor connectivity can result in unstable connections and low efficiency.

The conventional Intracity Data Center connectivity option is to go with buried / underground optical cables. However, with history of frequent cuts, lower uptime and Right of Way (RoW) difficulties in altering existing paths, underground cables are not so reliable.

### WHAT WE DID

We have come up with an alternate solution in delivering reliable fiber connectivity for data centers. OPGW (Optical Ground Wire) cable which runs over power transmission lines, can be easily reached to the data centers within the city to provide improved connectivity. The fiber runs at a considerable height, therefore making it sabotage proof. Moreover, the fiber uses the existing RoW and provides an uptime of over 99.9% which is unheard in the telecom industry.

We have built an intracity Data center OPGW corridor ring across Mumbai, the city which hosts major data centers within the country. This corridor runs very close to several prime data centers and provides almost end-to-end OPGW connectivity to telecom service providers. This will be critical for enhancing their network performance and delivering services with low latencies. A testimony to this is the fact that, one of the leading global wholesale carriers decided to connect 7-8 of their critical data centers in Mumbai after experiencing the benefits of OPGW.

### ACHIEVEMENTS

The OPGW network will benefit leading global wholesale providers with significant upgrade in network uptime. The Data Center OPGW corridor ring developed by us will focus on supporting the Data Centers within the Mumbai region. We also intend to build more such rings to fulfill demands from other cities like Pune and other intracity pockets. The kind of interest being shown by the top Telcos, OTTs, and enterprise carriers in utilizing the OPGW offering is impressive. Moreover, the OPGW connection has the potential to handle incoming/outgoing of nearly 100 Gigabits to Terabits daily; hence, ensuring the network can quickly scale up and address the spike traffic.