

## Dark Fiber Lease Considerations

This memorandum presents a brief framework for pricing and marketing of dark fiber. With the obvious caveat that a detailed analysis requires an in-depth evaluation of a given project or market, this general overview may help you in determining such matters as how to price your dark fiber – for example, to balance encouragement of use (and opening up of the dark fiber market) and returning of assets, while maximizing potential dark fiber net revenues.

### 1. What pricing models are used for dark fiber?

Most commonly, dark fiber is priced on a per strand per mile basis for a set term. Usually, the lease price to the fibers on the existing fiber network, and the customer is responsible for the incremental cost to connect their facility to the closest access point on the existing fiber route. Colocation, splicing, make-ready, and rack space costs are generally assumed on top of the fiber pricing. Some contracts will also charge an upfront fee to cover administrative costs.

The following are a range of pricing structures used to both the private and public sectors:

1. **Incremental or proportional cost (either of construction or maintenance), by the mile:** dark fiber is priced at the incremental or proportional cost of building the leased fibers or maintaining them. These structures will result in the lowest pricing possible, in cost efficiency, this model is used only where the provider is under some kind of duress or legal requirement.
2. **Fixed-term payment plus maintenance:** Most commonly, dark fiber is leased as a 10- to 20-year (most often 20) Indefeasible Right of Use (IRU). The customer pays up front for the IRU and annually for maintenance.<sup>1</sup> The maintenance cost is calculated on route miles, not strand miles. The annual maintenance charge is the same per mile regardless of whether the lease is for 1 or 20 or 400 strands on the same route. The typical payment covers the entire term of the fiber lease, but maintenance and operational contracts typically are renewable and for 5-year or shorter terms, which allow for cost adjustments based on experience and inflation. The benefit of this model is the substantial influx of funds early in the lease term, funds that can help bridge any potential early year cash shortfall while an entity is beginning operations and developing new services. On the other hand, the model will not result in annual revenues over the long-term beyond some of the cost of maintenance.

<sup>1</sup>For example, Minnesota Power offers dark fiber as a case of 10000 per mile per strand per month under a 20-year lease. Minnesota Power offers 20-year IRUs at a variable payment between Minnesota Power and CenturyLink for its non-renewable subsidiary of Minnesota Power. The pricing from the lease price of Minnesota Power is based on the costs used in historical contracts.

<sup>2</sup>One of the benefits of this model is the customer is that the IRU can be treated as a capital expenditure and depreciated over an appropriate period.

# Dark Fiber Lease Considerations Ctc Technology Energy

**Marcel A. Müller**



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