

Capacitors correct the poor power factor. They "inject" VARs into a T&D line to bring power factor close to 1.0, transforming VAR flow back into real power flow, regaining the portion of capacity lost to poor power factor. Capacitors can involve considerable cost depending on location and type. They tend to do the most good if put on the distribution system, near the customers, but they cost a great deal more in those locations than if installed at substations.

1.7 T&D COSTS

A T&D system can be expensive to design, build, and operate. Equipment at every level incurs two types of costs. Capital costs include the equipment and land, labor for site preparation, construction, assembly and installation, and any other costs associated with building and putting the equipment into operation. Operating costs include labor and equipment for operation, maintenance and service, taxes and fees, as well as the value of the power lost to electrical losses. Usually, capital cost is a one-time cost (once it's built, the money's been spent). Operating costs are continuous or periodic.

Electrical losses vary depending on load and conditions. While these losses are small by comparison to the overall power being distributed (seldom more than 8%), they constitute a very real cost to the utility, and the present worth of the lifetime losses through a major system component such as a feeder or transformer can be a significant factor impacting its design and specification, often more than the original capital cost of the unit. Frequently, a more costly type of transformer will be selected for a certain application because its design leads to an overall savings due to lower losses, or a larger capacity line (larger conductor) will be used than really needed due to capacity requirements, purely because the larger conductor will incur lower losses costs.

Cumulatively, the T&D system represents a considerable expense. While a few transmission lines and switching stations are composed of large, expensive, and purpose-designed equipment, the great portion of the sub-transmission-substation-distribution system is built from "small stuff" – commodity equipment bought mostly "off the shelf" to standard designs. Individually inexpensive, they amount to a significant cost when added together.

Transmission Costs

Transmission line costs are based on a per mile cost and a termination cost at either end of the line associated with the substation at which it is terminated. Costs can run from as low as \$30,000/mile for a 46 kV wooden pole sub-transmission line with perhaps 50 MVA capacity (\$1 per kVA-mile) to over \$1,000,000 per mile for a 500 kV double circuit construction with 2,000 MVA capacity (\$.5/kVA-mile).

Substation Costs

Substation costs include all the equipment and labor required to build a substation, including the cost of land and easements/ROW. For planning purposes, substations can be thought of as having four costs:

1. Site cost – the cost of buying the site and preparing it for a substation.
2. Transmission cost – the cost of terminating the incoming sub-transmission lines at the site.

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