

Transmission vs. Distribution Transcript

Electric transmission lines and distribution lines both carry electricity, but they look different and serve different functions. Let's use an analogy: our interstate system.

Transmission lines are like interstates. These tall, high voltage lines carry electricity over long distances from a power generation facility to a substation. Dominion Energy has 6,600 miles of transmission lines.

Substations are the exits off of these interstates. Once the transmission lines reach the substation, the voltage of the electricity is lowered using transformers.

The electricity, now at a lower voltage, is then delivered to customers via distribution lines. These smaller lines are like secondary roads. They run through communities and branch off to neighborhood roads that lead to houses and businesses. Neighborhood roads then take the electricity from the distribution lines to the meter connected to your house or business. Dominion Energy has 57,600 miles of distribution lines.

For more information on comparing transmission and distribution lines, visit the Dominion Energy website.