

# Construction of New Lines



Installing transmission structures and lines can be similar to a typical construction site, with numerous crews, trucks and other equipment. Generally, homeowners can anticipate skilled contractors and trade workers, who are subject to specific requirements, to work during daylight hours. We typically do not work during nighttime hours. A Duke Energy employee is assigned to each project as an inspector.

In deciding specific locations and types of structures, the company considers many factors, including property boundaries, nearby roads, cultural and archaeological sites, terrain, potential environmental impacts and avoiding structures.

There may be lulls between the phases of activity, but in general, homeowners can expect these stages of construction:

## Surveying

Small survey crews will be on the site several times during the project.

## Clearing and grading

Probably the most noticeable portion of construction involves clearing the easement to provide a safe area to work. The right of way must be clear during the construction process. Workers also may build access roads during this phase.

## Foundations and installing structures

Homeowners can expect large trucks with drilling equipment or a concrete mixer in the right of way. The concrete is poured at the bottom of a deep hole to form the foundation. The structure materials arrive in sections and may be assembled on the ground before being installed.

## Stringing lines

Trucks carrying large reels of conductor are typically used, with a winch to pull the conductor through. Linemen attach the wires to the structures. Later, crews install “ground rods” to the structures. Homeowners’ power is typically not affected when the lines are energized.



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