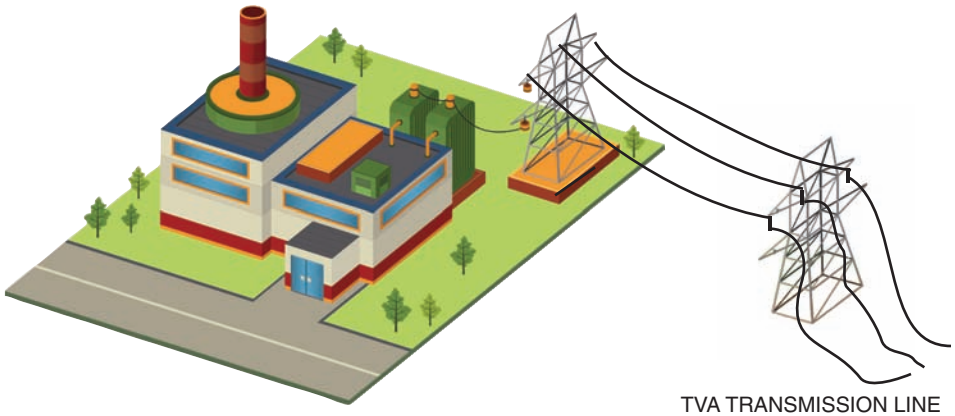
Power Restoration Process

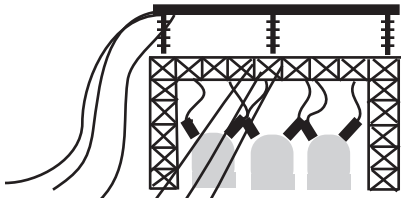
CDE LIGHTBAND

Step 1

Tennessee Valley Authority (TVA) generating facilities transmit power over long distances to one or more transmission substations. These lines seldom fail, but can be damaged by natural disasters such as ice storms and tornadoes. Tens of thousands of customers could be served by one high voltage transmission line, therefore, if damaged, they are repaired first by TVA.



TVA TRANSMISSION LINE

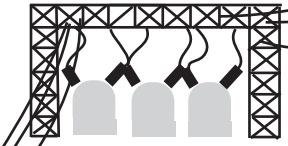


TVA SUBSTATION

TVA TRANSMISSION LINE

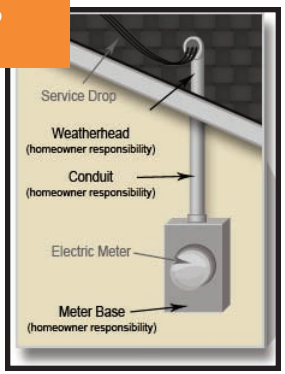
Step 2

The Clarksville Department of Electricity has 12 distribution substations, each serving thousands of customers. When a major outage occurs, these are evaluated first. A substation problem could be caused by failure of the transmission line supplying the substation or an equipment failure inside the substation. If the problem can be corrected at this level, power can be restored to thousands.



CDE SUBSTATION

Customers (not CDE) are responsible for damage to any equipment attached to their home or business.



Life sustaining facilities such as hospitals and nursing homes receive priority attention during major outages.

PAD MOUNT TRANSFORMER

CDE PRIMARY DISTRIBUTION LINE

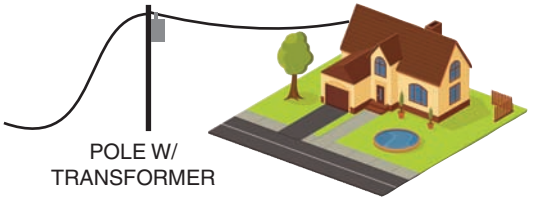
Step 4

Tap lines carry power to the transformers that provide service to smaller groups of homes and businesses. These lines are repaired in the order that restores service to the greatest number of customers first.

Step 3

Main distribution lines are checked next if the problem cannot be isolated at the substation. These lines carry electricity to multiple neighborhoods and businesses. When a distribution line is repaired, all customers served by this line could have power restored, as long as there is not a problem further down the line.

CDE TAP LINE



POLE W/ TRANSFORMER