

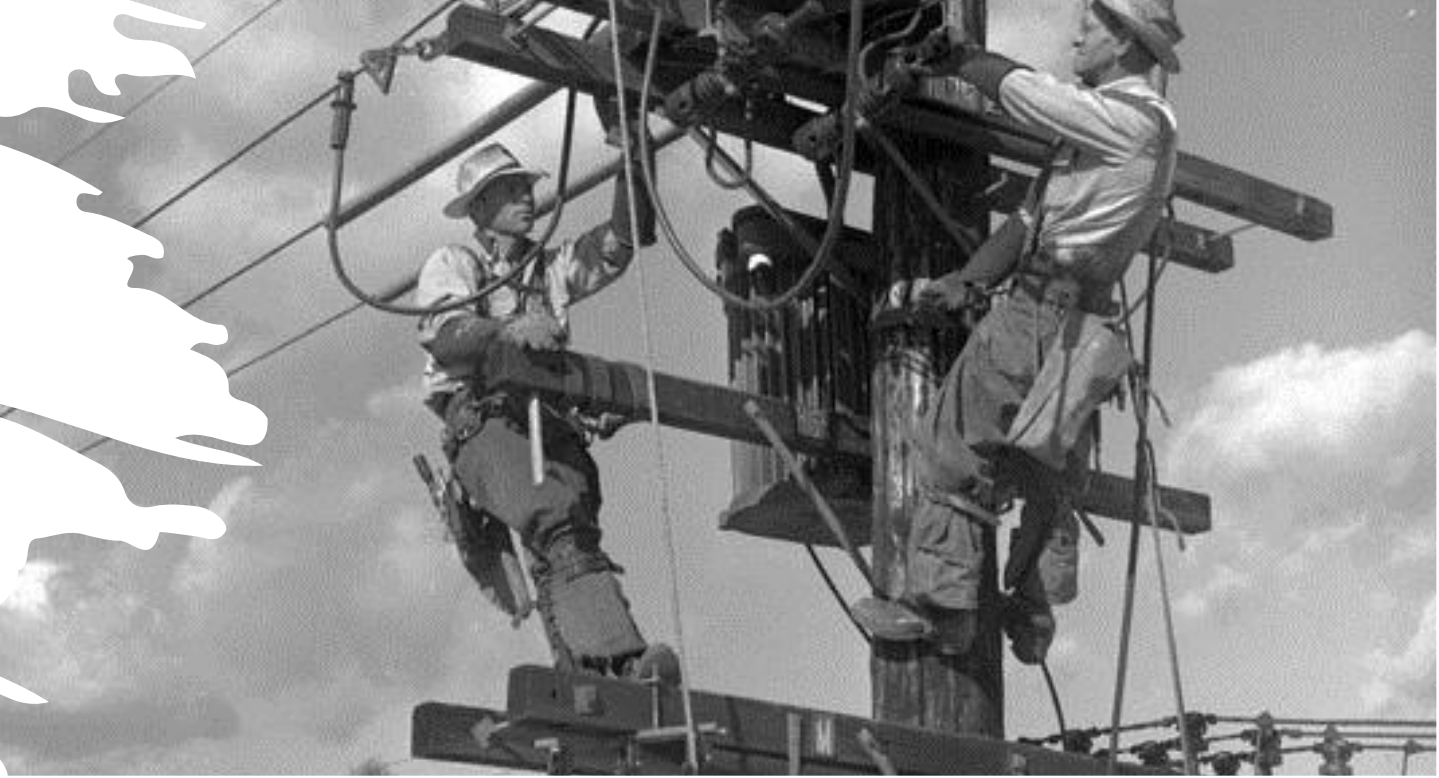


Roanoke Electric Cooperative

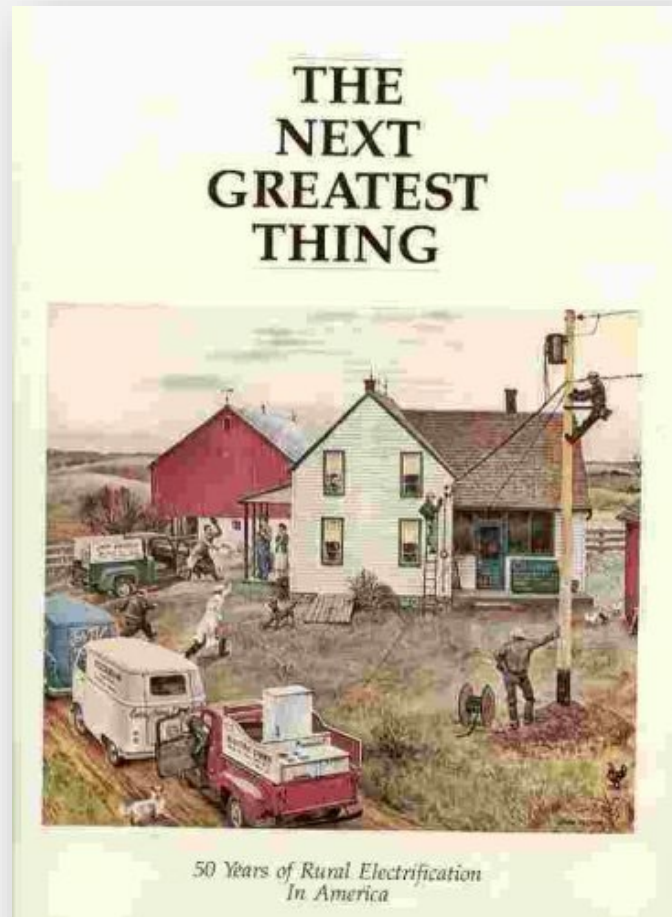
Your Touchstone Energy® Cooperative 



ROANOKE
CONNECT™



Our Roots...



Roanoke Electric's Corporate Strategy



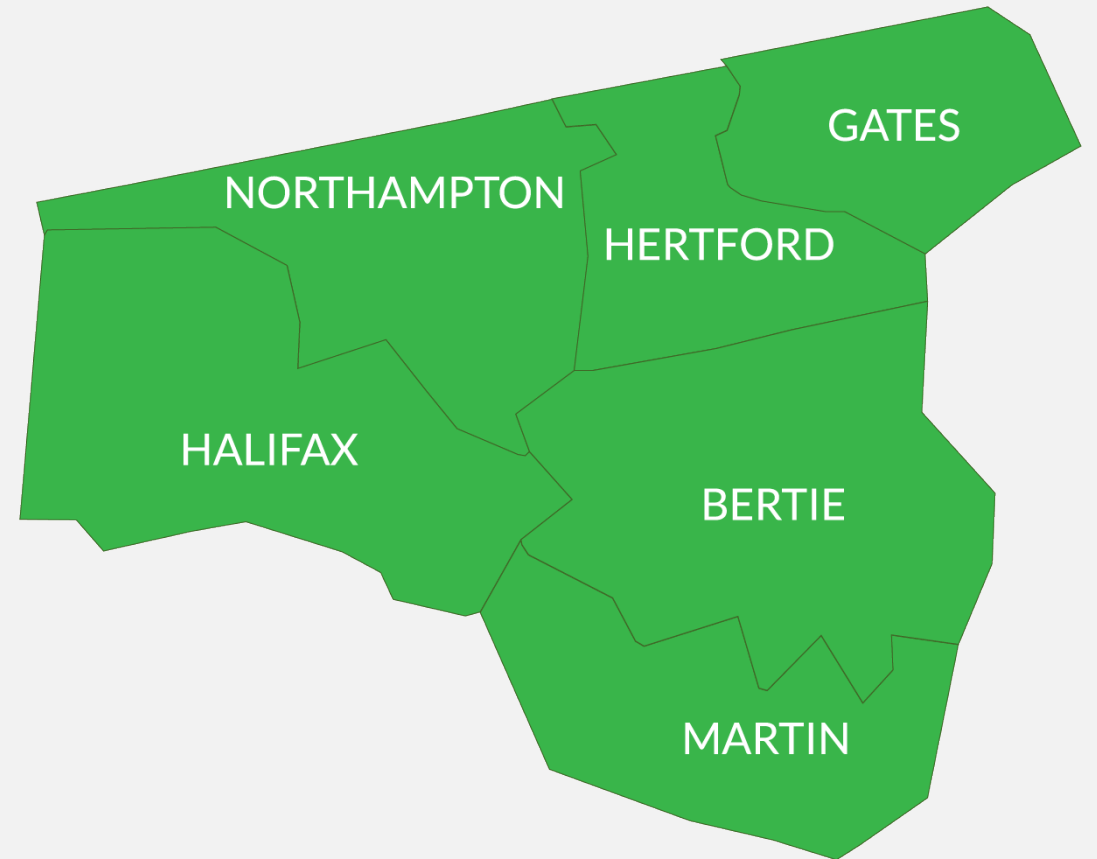
Energy resource management and development

Operational excellence

Member and community engagement



- Built over 300 miles of fiber
- Over 1,600 customers
 - 55% FTTH
 - 44% Fixed Wireless
- 17 Public Hotspots



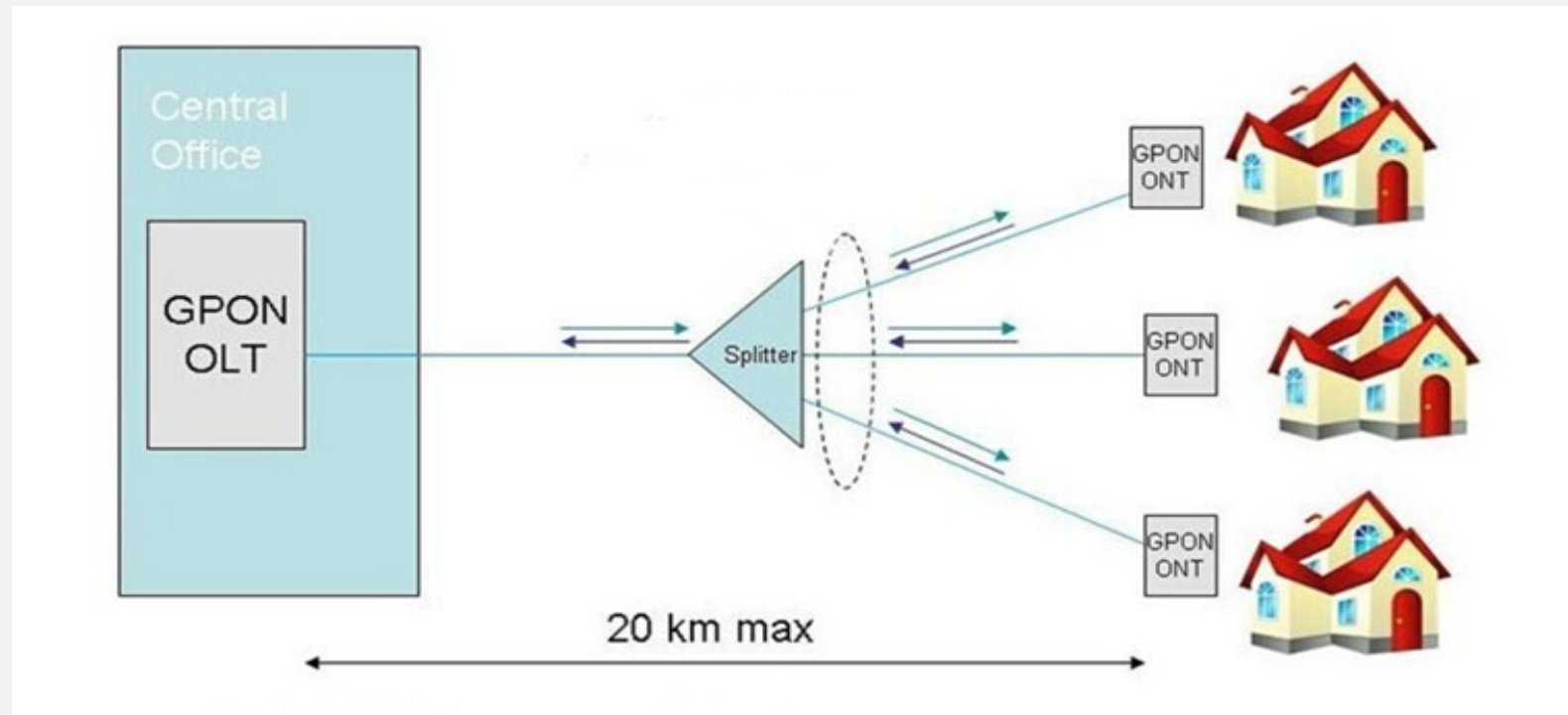
Demographics

| County | Median Household Income | Households with Broadband | 2018 Population | 2030 Population |
|---------------|--------------------------------|----------------------------------|------------------------|------------------------|
| Bertie | \$35,000 | 56% | 19,709 | 19,601 |
| Gates | \$51,746 | 67% | 12,094 | 12,254 |
| Halifax | \$36,760 | 57% | 51,552 | 47,259 |
| Hertford | \$38,216 | 60% | 24,093 | 24,006 |
| Northampton | \$37,233 | 51% | 20,618 | 18,379 |

Source: MyFutureNC.org

What is the Last Mile?

The final leg of a connection between the service provider and the customer.

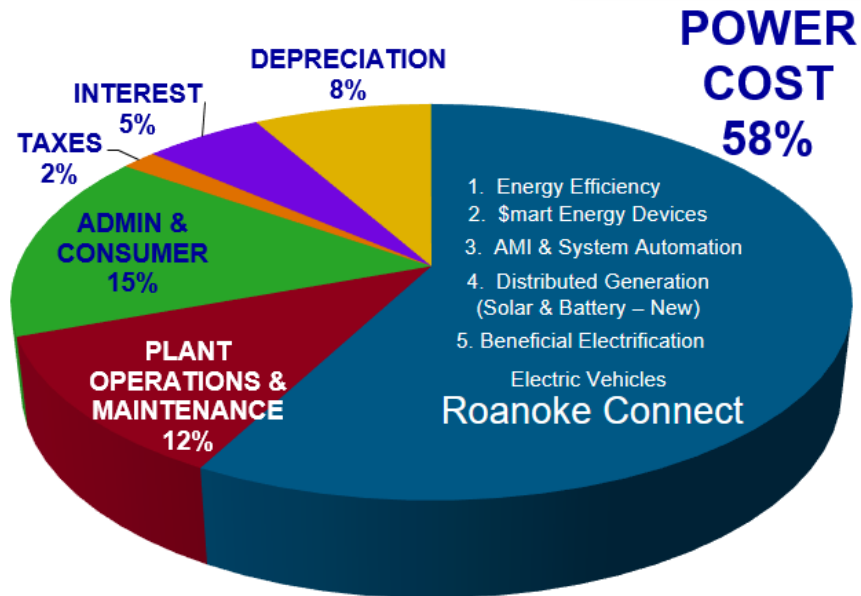


Last Mile Challenges

- **Cost**
- **Distance**
 - PON (Passive Optical Network) has distance limitations, therefore, remote cabinets may be used to extend the network.
- **Pole-Attachments**
 - Any attachment by a cable television system or provider of telecommunications service to a pole, duct, conduit, or right-of-way owned or controlled by a utility.
- **Obtaining Qualified Talent**



Digitizing The Roanoke Grid



Roanoke Connect broadband deployment is the primary enabler of all of the above; creating cost savings for Roanoke EC and our member-consumers while reducing carbon emissions

