

## AirLink® XR80 Fixed Utility Infrastructure – Increasing renewable power integration, grid safety and grid security

### Meet Cole

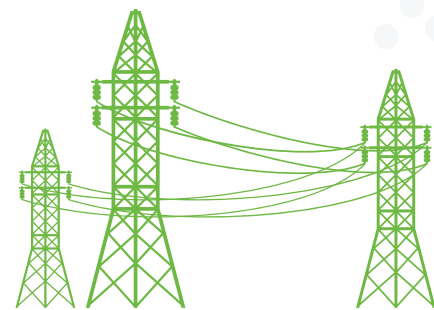


Cole is a Senior Operations Engineer for a large regional electric utility. Cole is responsible for leveraging 5G to improve utility operational efficiency, safety and security, as well as speed up integration of renewable resource integration.

### THE CHALLENGE

#### INCREASE GRID AUTOMATION, SAFETY AND SECURITY WITHOUT THE COST OF CABLES OR FIBER OPTICS

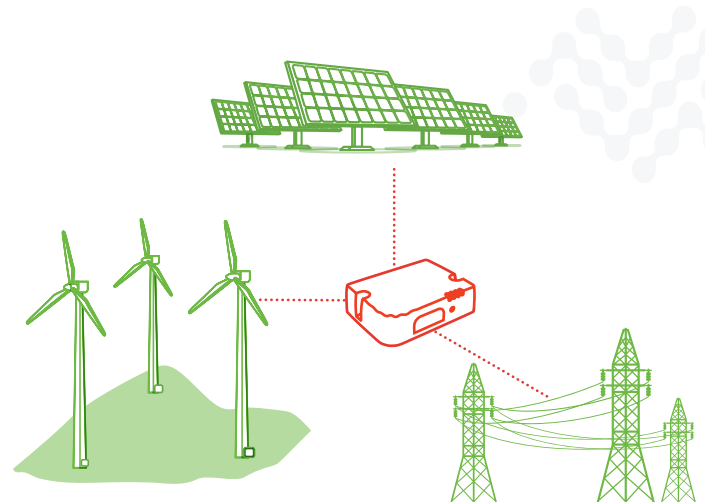
Running wires or fiber optics to control grid automation components is expensive, especially in difficult to access locations. Using reliable cellular connections lowers the cost to add automation, significantly reduces the time to install automation and increases system flexibility. With 5G bandwidth and latency improvements, Cole is looking to install wireless automation systems that meets system response and reliability requirements.



### THE SOLUTION

#### INSTALL AIRLINK XR80 CELLULAR ROUTERS IN NEW GRID AUTOMATION AND RENEWABLE ENERGY SITES

The AirLink XR80 cellular routers deliver Gigahertz communication speeds and extremely low latency and can detect and isolate faults in milliseconds. Leveraging the XR80's edge compute capabilities and supercharged hardware can further reduce response times. AirLink XR80 routers are easy to install and easy to monitor using AirLink Management Service (ALMS.) The routers are purpose built for rugged environments with aluminum die cast housing rated to IP-64 and Mil-STD 810G. The AirLink XR80 along with AirLink Connection Manager deliver end-to-end VPN security to protect the power grid. And the AirLink XR80 can be configured to run within a private network, further increasing the reliability of the wireless connections.



### THE RESULTS

#### SIMPLIFIED AUTOMATION INSTALLATION WITH LOWERED COSTS AND INCREASED FLEXIBILITY

The utility can now easily expand the use of automation to increase grid reliability and safety. It improves the utility's Feeder Automation (FA) systems simplifying integration of renewable energy into the grid. And with the flexibility of the AirLink XR80 routers, Cole can quickly add additional controls without the cost of adding communication cables or fiber.