

CONNECTIVITY FOR SMARTER ENERGY

4G LTE NETWORKING SOLUTIONS FOR ENERGY AND UTILITIES.

Energy and utility companies are under constant pressure to improve operational efficiency, but with widely dispersed estates this is no easy feat. Covering multiple counties, countries and even continents, monitoring the distributed network comes at a high cost unless managed remotely. The need for end to end connectivity is therefore essential, for which 4G LTE provides a flexible, secure and cost effective solution which can connect the entire estate from generation, through transmission, to distribution.

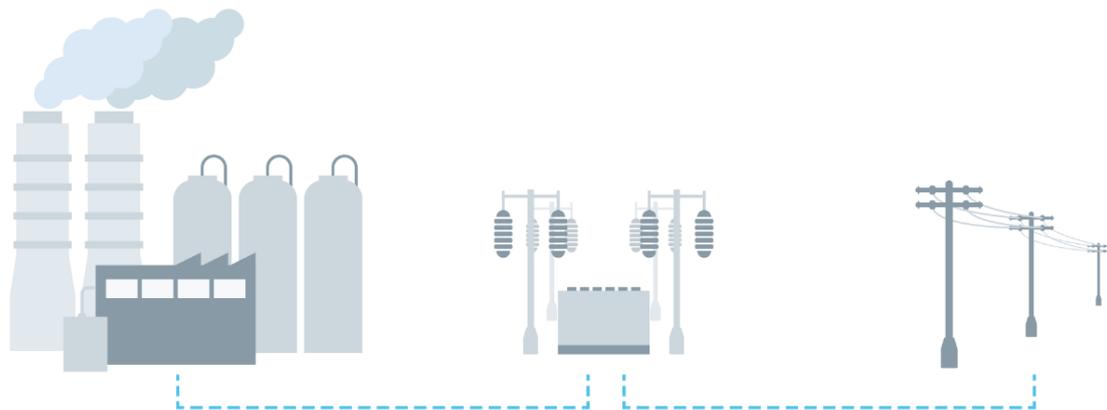
Using LTE to remotely monitor and manage energy and utility estates

Energy companies need to monitor how much energy is being generated across their sites, as well as when it is being generated, giving them both the big picture and detail they need to **make key business decisions**. By tracking these generation rates, companies can also implement **preventative maintenance**; for example if the production rate of a site (or an area of a site) suddenly drops, this indicates there may be an issue which can then be dealt with quickly.

Similarly, energy and utility companies also need to track their transmission and distribution networks to **ensure no energy or water is lost or stolen**, and that there are no faults with the service. By monitoring levels at different points in the network, companies can pinpoint potential issues in near real-time and allocate a field engineer resource to it **before it impacts the end customer's service**. Using the data provided, central teams can also ascertain what the problem may be, enabling engineers to be better prepared and making their **site visits more efficient**.

While remote management systems offer clear value, connecting the estate can be a challenge. Using fixed line or satellite connectivity over such a wide geographical area is both expensive and difficult to manage. Cellular however, provides a flexible connect anywhere, anytime solution which can be easily scaled. LTE connectivity can provide an end to end network across the entire estate to give central teams the visibility that they need to **efficiently manage their assets and infrastructure**, establishing two-way communications in a cost-effective manner to deliver a clear return on investment.

LTE networking can help energy and utility companies to better manage their entire estate...



FROM GENERATION

THROUGH TRANSMISSION

TO DISTRIBUTION