

U.S. Energy Sector Buildings & Campuses: Wireless and Cellular Nodes Forecast, 2019- 2024

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Abstract

Today in the U.S. there are several thousand operating electric distribution companies, refineries and mines. All of those companies rely on wired networks. Virtually all rely on wireless/cellular communications, as well. Many of those electric distribution companies (utilities) have built their own wireless/cellular networks over the years for various use cases.

The advent of LTE and 5G NR, along with the accompanying Internet of Things (IoT) technologies and standards, allows those utilities to transition from their purpose-built, often legacy, wireless/cellular networks to secure, scalable, standards-based networks.

This report provides an overview of two aspects of the energy sector in the U.S.:

- Electric distribution companies, herein referred to generically as “power plants” because these are the companies producing the electricity
- Refineries and mines: these are the U.S.-based companies that dig or pump the raw material out of the earth and provide it to the utilities for consumption.

This report identifies the following different types of power plants categorized by the EIA by predominant energy source within the plant:

- Coal
- Petroleum
- Natural Gas
- Other Gases
- Nuclear
- Hydroelectric Conventional
- Other Renewables
- Hydroelectric Pumped Storage
- Other Energy Sources



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And this report identifies the following different types of mines and refineries:

- Oil refineries
- Coal mines, both surface and underground.

Key questions addressed in this study:

- What are the energy sector buildings covered in this report?
- What technologies are required for smart energy sector buildings/campuses?
- What is 5G NR?
- What is CBRS?
- What is Private LTE?
- What are the business and/or use cases for wireless/cellular technologies in the energy sector?
- What is the total addressable market for Sub 6 GHz, CBRS, mmWave and Wi-Fi nodes in the U.S. energy sector buildings/campuses covered in this report?
- How many Sub 6 GHz, CBRS, mmWave and Wi-Fi nodes are expected to be deployed in U.S. energy sector buildings/campuses covered in this report?

This market study is recommended for:

- Mobile operators, particularly those servicing the U.S. market
- Mobile backhaul providers, including telcos and cable MSOs
- Wired and wireless backhaul vendors and solution providers
- Mobile OEMs, particularly those servicing the U.S. market
- Wired and wireless infrastructure vendors, particularly those servicing the U.S. market
- Financial and investment analysts.



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