U.S. CBRS Private LTE: A Five Year TCO for Commercial, Manufacturing and Energy Buildings

Market Study
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Abstract

The availability of CBRS spectrum in the U.S. has driven new interest in enterprise in-building private LTE networks. This market study presents a five-year total cost of ownership (TCO) model for private LTE networks deployed on CBRS 3.5 GHz spectrum in U.S. commercial buildings, manufacturing buildings and energy buildings.

This market study includes the expected impact of the global virus COVID-19, as *iG*R understands it today.

The TCO model, which includes both initial network build spend and operational spend over the five-year period between 2019 and 2024, estimates costs for:

- U.S. commercial buildings, split by 15 principal building activities
- U.S. manufacturing buildings, split by 21 principal products
- U.S. energy buildings, split by nine types of power plants and two types of refineries and mines.

Key questions addressed in this market study include:

- What is CBRS spectrum and how is it licensed?
- Why is an enterprise likely to deploy a private LTE network on CBRS?
- How much will it cost to deploy and operate the expected number of CBRS private LTE networks in U.S. commercial buildings? And how is the cost split by the principal activity of the building?
- How much will it cost to deploy and operate the expected number of CBRS private LTE networks in U.S. manufacturing buildings? And how is the cost split by the principal products being manufactured?
- How much will it cost to deploy and operate the expected number of private LTE networks in U.S. energy buildings, including power plants, mines and refineries? And how is the cost split by the energy sources of the power plants and the types of refineries and mines?

Who should read this report?

- CBRS solution vendors
- Third party integrators building IBW networks
- Mobile operators

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- Mobile infrastructure OEMs
- Wired and wireless backhaul vendors and solution providers
- Backhaul service providers and equipment OEMs
- Financial analysts and investors.

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