

# **U.S. Utilities Private CBRS Network Forecast, 2021 – 2026**





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# **U.S. Utilities Private CBRS Network Forecast, 2021 – 2026: *CBRS Network Build, Integration and App Spending in Utilities***

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## **A Market Study**

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# Abstract

This report focuses on the private CBRS network opportunity at the more than 11,000 electricity-generating power plants, 55,000 electricity substations and 16,000 wastewater treatment facilities in the U.S. These operations all rely on wired, wireless and cellular communications systems.

Private cellular networks using LTE and 5G New Radio (NR) operating in the CBRS band, along with the accompanying Internet of Things (IoT) technologies and standards, allows companies operating in these industries to transition from their purpose-built, often legacy, wireless/cellular networks to secure, scalable, standards-based networks.

For this report, iGR defines an in-building private cellular system as one that uses the U.S. CBRS band for 4G/5G-based services and is funded by a third party distinct from a Mobile Network Operator (MNO). Note that iGR includes campus-wide cellular networks within the “in-building” umbrella. In this report, the vast acreage covered by these operations are considered a “campus” deployment.

This market study provides a five-year forecast for spending for three types of spending on private cellular systems using CBRS in U.S. utilities. The three types of spending include:

- Network build and operational spending: the costs associated with installing and operating the private CBRS network
- Network/systems integration spending: the costs associated with designing, sourcing equipment, integrating the network and applications, etc.
- Applications: the costs associated with purchasing and licensing the applications that run on the private CBRS network.

Key questions addressed in this market study include:

- What is a private cellular network?
- How can a private cellular network be used to create a connected utilities facility?
- What is the primary purpose of a connected utilities facility?
- What technologies are required for a connected utilities facility?
- What use cases are enabled in a connected utilities facility?
- How much will be spent to build and operate a private CBRS network in U.S. utilities from 2021 to 2026?
- What is the forecasted network/systems integration spending associated with the private CBRS network opportunity in U.S. utilities from 2021 to 2026?

- What is the forecasted applications spending for private CBRS networks in U.S. utilities from 2021 to 2026?

Who should read this report?

- Systems integrators and wireless network integrators
- CBRS solutions vendors
- Mobile operators
- Infrastructure OEMs
- Financial analysts and investors.