

800 MHz Spectrum





Achieve Unmatched Network Performance with 800 MHz Spectrum From T-Mobile

Introducing a once-in-a-decade opportunity to revolutionize your network operations.

Black & Veatch is working exclusively with spectrum owner T-Mobile, and spectrum seller Grain Management to offer T-Mobile's 800 MHz spectrum to utilities. With both superior propagation and bandwidth, this spectrum is an excellent choice for utilities to build out high bandwidth, high speed and low latency private LTE/5G networks (pLTE/5G) for their critical use cases.

Achieve unparalleled connectivity and ensure robust and reliable communication infrastructure.

This is your moment to elevate your operations, improve efficiency, and future-proof your network with the power of 800 MHz spectrum. Securing spectrum is crucial for electric, gas and water utilities to operate pLTE/5G networks, as it guarantees dedicated, reliable, and interference-free communication channels, which are essential for maintaining secure and efficient operations.

Leverage the new low band 3GPP 800MHz spectrum. With up to 14 MHz of bandwidth, this proven spectrum is available across the U.S. It boasts a large vendor ecosystem and supports the lowest total cost of ownership compared to other spectrums in the pLTE/5G market. A rare opportunity to have access to a nationwide band of spectrum now with all its operational and cost efficiencies.

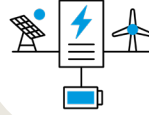
Reduce Cyber Risk with pLTE

Enhance cybersecurity capabilities. With the increasing number of IP-enabled devices and third-party grid interconnections, cybersecurity is a growing concern. Based on the 3GPP standard, LTE/5G is continually analyzed and tested to address network vulnerabilities and improve standards. By making it private, utilities gain the confidence to digitally transform and realize a more intelligent and secure grid.

Compared to public, pLTE offers robust security controls and redundancy, providing multiple barriers to cyber attacks. These include zero-trust architecture, enhanced encryption, dynamic QoS, enhanced authentication and key agreement, and advanced monitoring and response. Plus, it's SIM-based, allowing for encryption and authorization at the device or application layer.

Spectrum for the Energy Transition

A private, high-speed network powered by 800 MHz spectrum will drive the energy transition. Efficiently manage DERs connecting to the grid with real-time data transmission. With pLTE, renewable integration, grid optimization and grid stability is possible.



Why choose 800 MHz?

Supports pLTE & 5G

Enable utility modernization and deploy advanced solutions: IoT sensors, distribution automation and predictive maintenance.

Excellent Propagation

Allows signals to travel longer distances and penetrate through obstacles – making it ideal for utilities' vast and diverse territories.

Lower Total Cost of Ownership

With this superior range, fewer sites are needed for the same coverage area compared to higher-frequency bands.

Reliability & Resiliency

Low frequency and licensed with less congestion and interference than higher frequencies or unlicensed spectrums.

Secure

pLTE/5G, enabled by licensed spectrum, provides superior cybersecurity over Public LTE by protecting critical data with advanced encryption and zero-trust authentication.

Turn to T-Mobile, Grain Management and Black & Veatch

As T-Mobile and Grain Management's exclusive sales agent, Black & Veatch will guide you through the negotiation process to secure the spectrum licenses that will transform your utility network, such as:

- Researching services territory and identifying point of presence (PoPs) and coverage to help determine a price per PoP.
- Conducting due diligence to build a business case and acquire all required approvals to obtain budget including pLTE/5G, cybersecurity planning and total cost of ownership.
- Obtaining favorable FCC conditions such as: utility use, spectrum continuity, build-out requirements and license renewals.
- Filing with PUC and acquiring necessary approvals.
- Negotiating final spectrum acquisition.

Contact us today to learn more about how you can benefit from this exclusive offer and take the first step towards a smarter, more connected future.

bv.com



About the Team

T Mobile

The Spectrum Partnerships and Acquisitions team is T-Mobile's specialized division for managing spectrum resources at America's supercharged Un-carrier, delivering an advanced 4G LTE and transformative nationwide 5G network that offers reliable and super-secure connectivity for all.



Founded in 2007, Grain Management is a leading, global investment firm. Grain specializes in digital infrastructure and are a trusted solutions provider to the broadband and communications industry. The Firm's unique combination of sector knowledge, experience as operators, and disciplined analytical approach guides our differentiated investment strategy across fiber networks, data centers, wireless spectrum, cell towers, as well as managed and infrastructure services.



As an employee-owned consulting, engineering, procurement, and construction company with a 100-year legacy, we bring 50 years of communications experience and over 25 years of leading large-scale, turnkey deployments for carriers, utilities, communities, and government agencies.

