



City of Newark, NJ

Consultation for 5G Installation

TeknoGRID.com



BACKGROUND

The City of Newark, New Jersey, the largest city in the state, needed consultation for processes associated with the installation of 5G infrastructure to provide improved services to its citizens. Needs included developing SOP and new ordinances, ensuring compliance with regulatory requirements, maximizing contractual agreements, establishing foundations for future technology, and creating sustainable revenue.

Consultation for Services, Processes, Contracts, and Compliance Requirements Associated With 5G Infrastructure.

Objectives:



Compliance With Regulatory Requirements



Assistance with Vendor Contract Development & Negotiations



Create Standardized Processes & Operating Procedures for Small Cell Facilities



Establish Foundation for Future Deployments of Autonomous Vehicle & IoT



Develop New City Ordinance for 5G Carrier Permitting & Installation

CHALLENGES HIGHLIGHTS

Navigating Regulations

Compliance with complex, labyrinthian regulatory requirements, including those of the FCC

Inexperience with Ordinances

Lack of experience with 5G-related municipal ordinances that required extensive subsequent legal reviews

Poor Contracts

Contracts that didn't maximize benefits to the city and its citizens

Not Capturing Value From Vendors

Vendor services not providing the most value for the city's investment.



Challenges

Improving Infrastructure, Regulatory Compliance, and Contracts for the Largest City in New Jersey

5G is more than just new technology. It is a crucial and scalable infrastructure system that enables a multidimensional approach to smart cities and IoT. Faster than 4G, it delivers increased traffic capacity, improved network efficiency, and faster connectivity with lower latency. It also provides the necessary foundation for cities to evolve into smart cities and embrace future technologies.

5G allows for more applications with different requirements for service provisions and service levels. This can include autonomous cars, public transportation, power plant management, critical communications, large-scale IoT deployment and interconnection, and more. A successful tech ecosystem needs strong infrastructure to spur sustainable innovation.

The City of Newark needed to install infrastructure that would allow the city to capture the multi-faceted benefits of 5G, but without experience in the complicated regulations and ordinances, and lacking the critical partnerships and contracts, the city needed help.

Areas of particular concern were FCC regulations, permitting, right of ways (ROW), and more. The city also lacked experience with ordinances related to municipal 5G deployments. Key provisions in current contracts were analyzed and an urgent need to enlist outside legal review of every 5G contract was identified. Newark needed a new strategy for contract development that would mitigate risks and deliver long term benefits to the city and its citizens.

**The public Wi-Fi network
TeknoGRID built in collaboration
with the City of Newark, Invest
Newark, and Ironbound Business
Improvement District/IBID provides
free Wi-Fi service to 200,000+
users.**

Solution

Scalable City-Wide Infrastructure With Processes That Create a Tech Ecosystem Capable of Meeting the Demands of Tomorrow

TeknoGRID partnered with the City of Newark, Invest Newark, and Ironbound Business Improvement District/IBID to develop a 5G permitting/ordinance framework that regulates small cell installation, maintenance, processes, and required permits. The team reviewed approximately 5 contracts and multiple existing city ordinances that dated back to 1999. This helps the city:

- Maximize access to cellular and broadband communication
- Protect public health and safety
- Assure historic preservation
- Establish design and aesthetic standards & criteria
- Build upon the city's investment in Newark Fiber Broadband and city-wide Wi-Fi
- Generate long-term revenue

"Providing free public Wi-Fi to our community, our customers and visitors through our partnership with the City, Invest Newark, Newark Fiber and TeknoGRID is an important amenity that's good for the Ironbound District and for Newark."

– Ironbound Business Improvement District (IBID) Executive Director Seth A. Grossman

Recommended strategies promote the rapid development and deployment of a web-based application system that is fair to the applicant carriers while maximizing benefits to the city. Other recommendations provided solutions to address citizen concerns, specifically environmental, health, safety, and accessibility for persons with disabilities.

TeknoGRID created a rule for the city that requires all Small Cell carriers to share PSE&G poles for alternative uses such as Wi-Fi, microwave, or cameras. City revenue was also at the forefront of necessary solutions as it sustains the city and its services and helps it grow. For this, TeknoGRID helped Newark to create a self-sustainable revenue generation model via stipend remunerations.

TeknoGRID promotes transparency to build community trust. Our recommendations enable the public to express any community concerns regarding the placement, installation, operation, and maintenance of small cell facilities.



SOLUTIONS HIGHLIGHTS

Compliance Framework

Developed a comprehensive 5G framework with recommendations for updated processes & procedures.

Infrastructure Partnerships

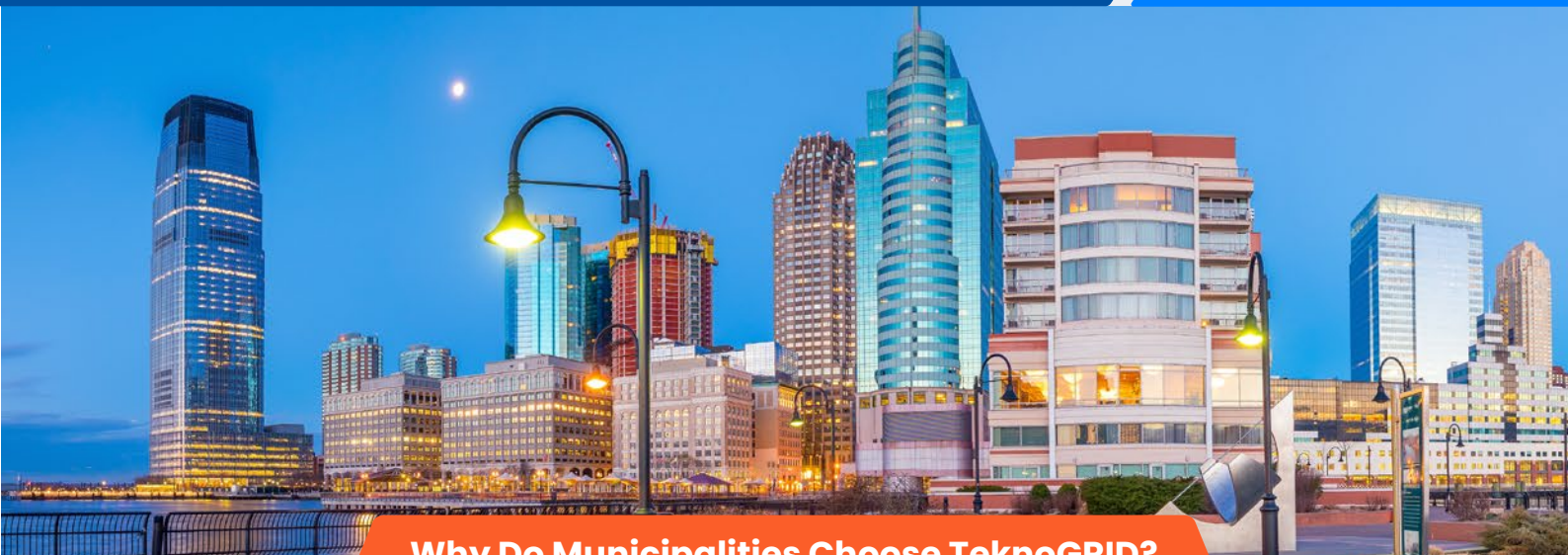
Created a new rule for sharing existing electric service company's poles

Sustainable Development

Developed a self-sustainable revenue generation model

Equitable Solutions

Developed technology solutions that address challenges facing persons with disabilities as well as the community's wellness and environmental concerns.



Why Do Municipalities Choose TeknoGRID?



Our consulting services, founded on 20+ years' experience and expertise with telecom projects, ensure that government entities receive the highest-quality services and the most value for their investment.



We understand and have deep experience with solving the common challenges that government entities face.



TeknoGRID has the most responsive client support. And, our team maintains a strict adherence to processes that ensure client confidentiality.



We advance project timelines and deliver high-quality, reliable results through our skilled project management and stellar workmanship.



Safety is paramount in every project; TeknoGRID has a very strong workforce safety record.



TeknoGRID is a certified Minority/Small Business Enterprise and a Supplier Diversity Partner.



Results

As the Lead/Prime for the Project, TeknoGRID’s Consultation Services Delivered Successful Installation with Improved Compliance, Processes, and Revenue

“Invest Newark is thrilled by the continued growth of Newark Fiber, our city’s lower cost, higher speed alternative Internet service provider that is connecting neighborhoods across New Jersey’s largest municipality and closing the digital divide by providing residents and business owners with improved access to opportunities to learn, grow, and thrive here in the great city of Newark.”

– Invest Newark President & CEO Bernel Hall

TeknoGRID provided consultation services for design, planning, and implementation considerations with regard to 5G installation. Partnering with the City of Newark, Invest Newark, and Ironbound Business Improvement District/IBID, TeknoGRID helped to develop a network and associated contracts that provided 5G services to over 200,000 users and delivered numerous benefits to the city and its citizens.

TeknoGRID’s partnership helped to address all contractual, regulatory, and local ordinance considerations, ensuring that the city achieves compliance and provides long-term benefits for its citizens.

City staff and regulators obtained clarity on how to proceed with municipal 5G projects

Protected Newark from being locked into long-term contracts with carriers that didn’t best serve the city and its residents

Newark received a pre-packaged, well defined 5G permitting/ordinance framework to help expedite municipal 5G permitting/FCC shot-clock processes



TeknoGRID designs, builds, and manages advanced telecom infrastructure that enables organizations to keep pace with the growing demand of communications, including 5G network infrastructure, and seamlessly evolve with increased global reliance on mobile devices and cloud-based technology.

Our clients benefit from the broad expertise and deep knowledge our team possesses and pours into every detail of every project.

We invite you to learn more about our client partners and the services we provide on our website.

Get Started

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