



# GAS MAIN REPLACEMENT SERVICES

## OUR SOLUTIONS

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The primary objective of a gas distribution utility is to provide safe and reliable natural gas service to customers. In order to ensure this commitment to safety and reliability, operators must maintain gas networks by replacing underperforming infrastructure such as cast iron, bare steel, ductile iron, PVC, and other types of mains and services.

EN Engineering provides a range of services, from total program development through individual segment design, to ensure efficiency, safety, reliability, and cost effectiveness. Our team of engineers and consultants bring years of operational experience working with gas distribution and transmission networks. We have an extensive track record of success helping utilities across the country modernize their gas



delivery systems while achieving core operational objectives. We can offer a full suite of gas engineering services to address an entire main replacement program or individual components.



Execution of main replacement (MR) programs often requires rapid deployment of resources to meet the demands applied by public utility commissions for rate case reimbursement scenarios. EN Engineering MR teams are immediately available to address project ramp up and supplement your in-house team of employees. We work closely with your program staff and bring valuable experience from day one.

## OUR SERVICES

- Program development
- Project management
- Industry leading practices
- Least cost design
- Engineering and design services
- Drafting
- Execution and coordination planning
- GIS implementation and mapping
- Construction management
- Permitting
- System operating procedures
- System design modeling
- Cost estimating
- Material list



### EN Engineering Expertise

- Develop MR programs
- Enhance MR programs and reduce costs
- Provide “leading practices” expertise
- Supplement replacement teams
- Help meet program execution deadlines
- Help achieve rate recovery and operational objectives
- Discuss other engineering and consulting needs
- Arrange a detailed presentation of our MR services

### Key Elements of Successful Main Replacement Programs

- Identify conditions and threats
- Ranking and prioritization
- Program timeline
- Jurisdictional collaboration
- Design and construction standards
- Work management system
- Program resources
- Program communication
- Organization structure and governance

### A Leader in Gas Main Replacement Services

- Highly-skilled personnel with expertise in gas replacement design and operations
- Coast-to-coast replacement experience provides array of best practices
- Significant proficiency in all facets of main replacement
- Qualified team focuses on coordination of MR work in tandem with scheduled public improvement plans to reduce construction costs
- Accuracy and quality of EN Engineering designers limits design revisions and saves money and time
- Full array of support staff to serve as subject matter experts
- Nationwide offices offer experienced resources to ensure quick deployment for efficient program execution