Easily modernizing your gas system keeps you conservation ready.

Grid Wide: Intelligent Gas smart metering

With demand for natural gas on the rise and 2.2 million miles of aging distribution infrastructure needing to be maintained,1 utilities are looking to the Internet of Things (IoT) to evolve the industry. But there are challenges. If you’re heavily invested in existing infrastructure, you’ve had to put off upgrades, and you may not have enough IT staff with the expertise to support intelligent systems.

Despite the challenges, IoT promises near real-time data and newfound visibility that can transform operations. Even better, intelligent solutions let you pay as you go. Focus on problem areas first, and upgrade your services as you need them. Verizon Grid Wide Utility Solutions: Intelligent Gas makes it easy to get started, providing a fully managed, scalable, secure, hosted, cloud-based platform-as-a-service model. It’s a cost-effective, efficient way to modernize your gas system with smart metering and distribution monitoring and control.

How it works

Grid Wide: Intelligent Gas makes it easier to manage and remotely monitor your system, so you won’t need to send workers into the field to deal with every problem. You can conserve resources and identify anomalies that help pinpoint issues with high usage, tampering, flow and pressure, which also helps improve meter reading safety.

Intelligent Gas lets you see what’s happening across your gas system. So you can react quickly and get on top of issues before they become problems. This can help save time, money, manpower and precious natural resources. You can help customers stay better informed. And you can also plan preventative maintenance.

With the Intelligent Gas solution, data is transmitted via point-to-multipoint topology over a variety of open and proprietary wireless protocols from smart meters and sensors to the IoT gateways or electric meters. Then data moves across the Verizon 4G LTE wireless network on the Verizon Private IP wide area network to the Intelligent Gas application, which is fully managed in the Verizon Cloud.

Because it’s a platform as a service, you won’t have to reengineer your entire network to improve services. We have integrated technologies and options such as a managed, hosted cloud-based application; reliable 4G LTE and Private IP network communications; and a commercially proven IoT platform.

Grid Wide: Intelligent Gas smart metering helps you with:

- Meter reading and control for obtaining billing and operational meter data
- Pinpointing system anomalies, events and failures and receiving isolation notifications in near real time, lowering revenue loss and increasing customer satisfaction
- Receiving actionable insights and data in industry-standard formats, including consumption monitoring and quality-of-supply information
- Conservation of precious natural resources
- Compatibility with existing infrastructure
- Transparency from integrating payers and providers
Smart metering

Verizon has simplified smart metering by integrating all of the essential hardware, software, open and proprietary protocols, and 4G LTE components into a single, cloud-based, IoT platform-as-a-service solution.

Security Infrastructure Services

The adoption of smart-grid digital technology delivers many cost-saving and conservation benefits, and with them cyberthreats. Our Security Infrastructure Services can help you identify and mitigate risks to your infrastructure and devices, enhancing the overall safety of the grid. Verizon Security Infrastructure Services provides:

- Public Key Infrastructure (PKI) and Pre-Shared Key (PSK) service
- Solutions to provision and manage the digital identity of managed devices

Integrated Reporting and Data Analytics

How many times have you encountered customer service problems from high-usage anomalies, pressure or flow that you weren’t aware of and would not have known about, if not for a customer phone call?

With dashboards, integrated reporting, data analytics, event alerts and notifications, you can increase insight into your gas system, helping you improve efficiency and customer service.

Intelligent Gas helps you:

- Conserve natural resources
- Control costs and lower expenditures
- Lessen the burden on IT staff
- Improve grid-wide visibility
- Increase operational efficiencies
- Provide actionable insights

Specify who receives notifications when anomalies are detected, and view system alerts on a map.

Better results

You get actual data on what’s happening system-wide. Intelligent Gas collects data, securely transmits it, gives you actionable insights and helps you make near real-time business decisions using that data. The solution includes preconfigured data and analytics dashboards to help you manage and report on usage anomalies. With better data, you can keep customers informed, improve customer service and dispatch field workers for preventative maintenance. Plus you can use Intelligent Gas data for future growth planning, and for developing management programs to help further improve service and lower costs.
**Low capital investment**

Intelligent Gas also includes predictable pricing per meter per month—not the capital expenditure you might expect. You can implement smart meters as part of your normal swap-out plan. Or you can ramp up faster, depending on your budget.

The service-based model means you can begin modernizing problem areas right away on a pay-as-you-go basis, rather than putting off all updates until larger capital budgets are approved.

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**Why Verizon**

When it comes to modernizing your gas system, the network matters. We offer America's largest and most reliable 4G LTE network. Our network was rated #1 in overall network performance in the U.S. 12 times in a row by RootMetrics. In fact, 97% of the Fortune 500 rely on our services and technologies. More businesses choose Verizon than any other wireless carrier.

More coverage, fast speeds and reliable connections. When you can connect to what’s important, with help from a trusted partner. Are you ready?

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**Learn more:**

To find out more about Grid Wide: Intelligent Gas, please contact your Verizon Wireless business specialist or visit verizonenterprise.com/gridwide

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*Simplify the modernization of your gas distribution system with the Verizon IoT Gateway.*

The Verizon IoT Gateway is an intelligent device that is fully integrated with the Grid Wide platform, helping gas utilities connect, manage, optimize and control distribution network devices. The gateway supports open standards and technologies, with open interfaces providing support for proprietary gas-meter-reading protocols, helping with scalability and avoiding proprietary technology lock-in.

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3. Verizon internal research.
4. Results based on an independent research study of 7,414 business locations using corporate-liable wireless service. Telephone interviews were conducted between 2Q2015 and 102016 with the employee most knowledgeable of telecommunications service.

Network details & coverage maps at vzw.com. © 2019 Verizon. SB6531119