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# PUBLIC VS PRIVATE NETWORKS FOR SMART GRID

As requirements for utility communications continue to evolve, utilities are continually searching for the best alternative that will meet their operational needs and enable them to provide a secure, reliable service to their customers.



*In the event of a power outage, public networks can overload very quickly - precisely when utilities need reliable means of communication"*

Great River Energy, an electric cooperative in Minnesota, has adopted private networks as an automation solution which also offers secure connectivity and bandwidth that can be used to monitor energy generated at the micro-grid level. These private networks create a private IoT ecosystem, owned and operated by the utilities themselves, designed to enhance security and minimize latency across the grid.

In an interview with Metering & Smart Energy International, Jim Jones, vice president and chief information officer at Great River Energy, expands on how utilities are addressing smart grid automation requirements, security concerns and enhanced metering and monitoring needs for renewable energy demands with the adoption of a private communication networks.

**MSEI: Why the move to a private communications network? What have utilities generally done in the past?**

JJ: Prior to the move over to a private network, Great River Energy was in a similar situation to a lot of other utilities in North America where the power system, including our plants, offices, transmission substations and load serving substations, were built up over several decades, and employed outdated communications technology not able to keep up with the demands of the modern utility grid. We found ourselves in a situation where we would engineer the communications links to a specific substation every time it was needed and ended up with a dozen different technologies. What we wanted was a single, cohesive network that we could rely on to communicate to all of our power

system locations. Moreover, our substations are scattered throughout rural territory where broadband communication services are not always available, which puts us in a precarious situation in the event of a power outage. That's the primary advantage of a private network - ensuring that communications services cover our entire territory. Another advantage of a private network over a public network is concern about priority of service.

Utilities feel that communications needed to operate critical infrastructure should have a higher priority of service over general public traffic such as texting and internet browsing. For example, in the event of a power outage, public networks can overload very quickly - but during an outage is precisely when utilities need reliable means of communication. Public networks in the US are not required to have back-up power for more than several hours, but with our private network we can locate remote generation to ensure communication is available for longer periods while we restore the power system. This, coupled with utilities moving more to the Internet of Things and larger data networks, is pushing them to look for alternatives.

**MSEI: What are some of the other advantages of a private network?**

JJ: We needed modern communications, and modern communications really means an IP based communications network. We needed a solution that could move more data more reliably, low latency and increased bandwidth as well as giving us the ability to monitor the network and see all data traffic. There is also the security aspect. Private networks run

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