

A PERFECT STORM OF PRESSING CONCERNS

Utility companies are heading into a perfect storm. They must keep the power on and the water flowing while keeping their employees and the public safe. While demand is growing and the industry is changing, they are being pressed to cut costs without compromising safety.

Add with the rise in cyber attacks and regular threats to network security, the potential for disruption is high. The reality is, utilities must be more responsive to customers, prepare for emergencies and disasters, comply with changing regulations and secure their assets. All while ensuring safety in the field, at facilities, and throughout the community.



40%
INCREASE IN CYBER
ATTACKS AGAINST THE
ENERGY SECTOR¹



\$10 BILLION IMPACT OF THE LARGEST BLACKOUT IN NE U.S. AND CANADAS



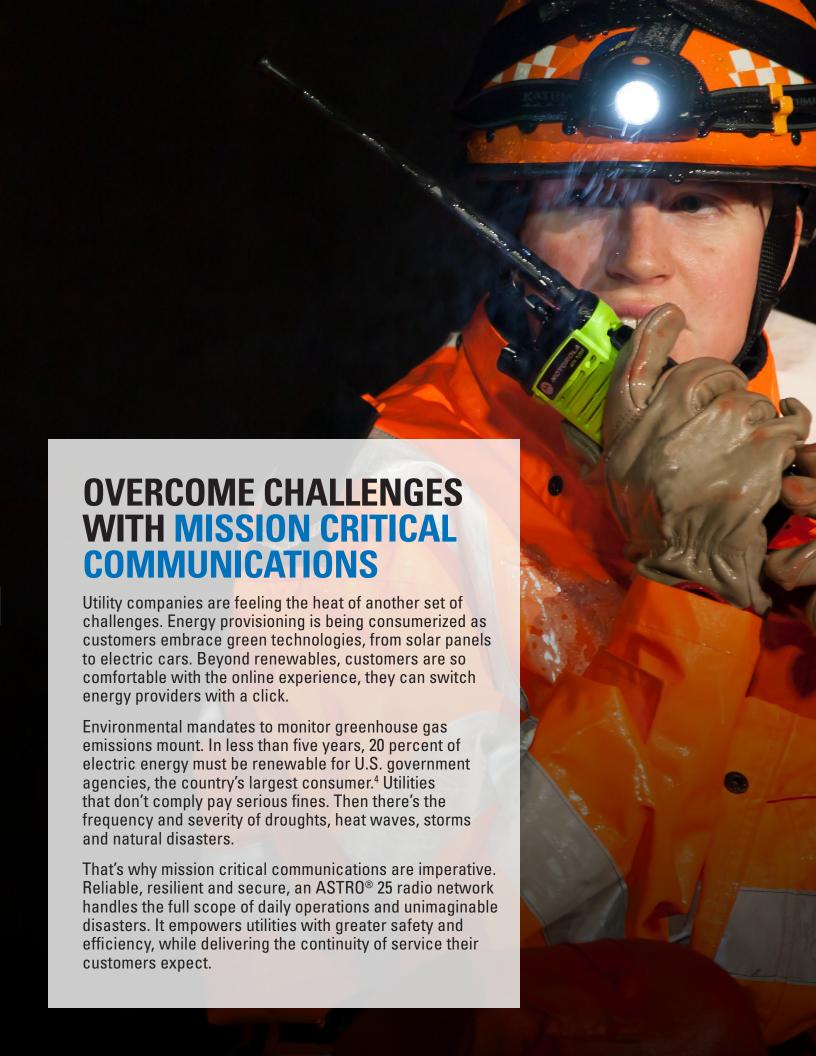
67%

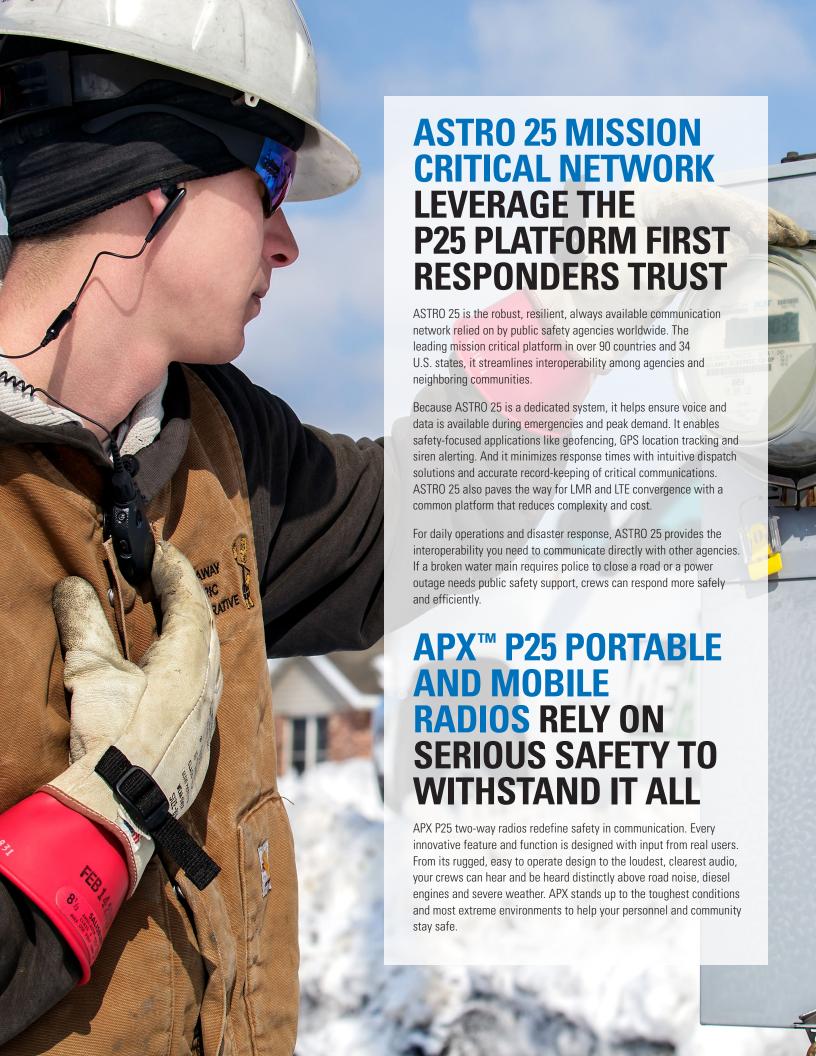
COMPANIES WITH ONE OR MORE SECURITY COMPROMISES CAUSING DISRUPTION²



LIKELY ATTACK ON SCADA OR ICS SYSTEMS IN THE NEXT 24 MONTHS³









GAIN GREATER VISIBILITY AND CONTROL OF CRITICAL INFRASTRUCTURE

Mission critical technology is invaluable for driving greater efficiency, precision and control of critical infrastructure. Industrial Internet of Things (Industrial IoT) solutions enable the process automation and monitoring necessary to achieve greater levels of productivity while facilitating safer operations.

By connecting SCADA Remote Terminal Units (RTU) to the ASTRO 25 system, you gain precise control of the communications across your entire service area. There is also the potential of eliminating recurring commercial network charges and minimizing expensive hard-wiring. Industrial IoT Solutions offer the security, flexibility and resilience to maintain control of your critical infrastructure in the midst of chaos.

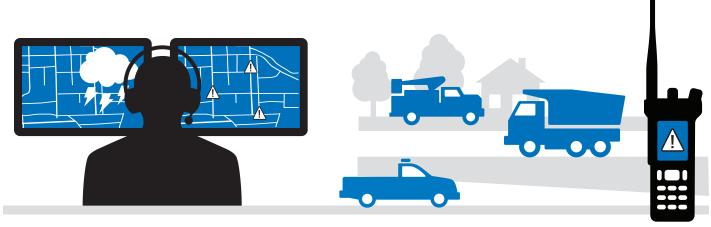
Ruggedized machine-to-machine (M2M) devices support communication for numerous data applications over the ASTRO 25 system so you see what is happening across your operations at all times.

Broadband LTE modems are ideal for vehicles in the field, enabling personnel to access work order tickets on their laptops, tablets or mission critical LTE handheld devices.

CommandCentral Inform offers a unified view of personnel, assets, surveillance cameras and more on one map. Now you can see if a power line is down, a pipe is failing or a worker is in distress.



DIFFERENT PEOPLE, LOCATIONS AND CONDITIONS CONNECTED INSTANTLY

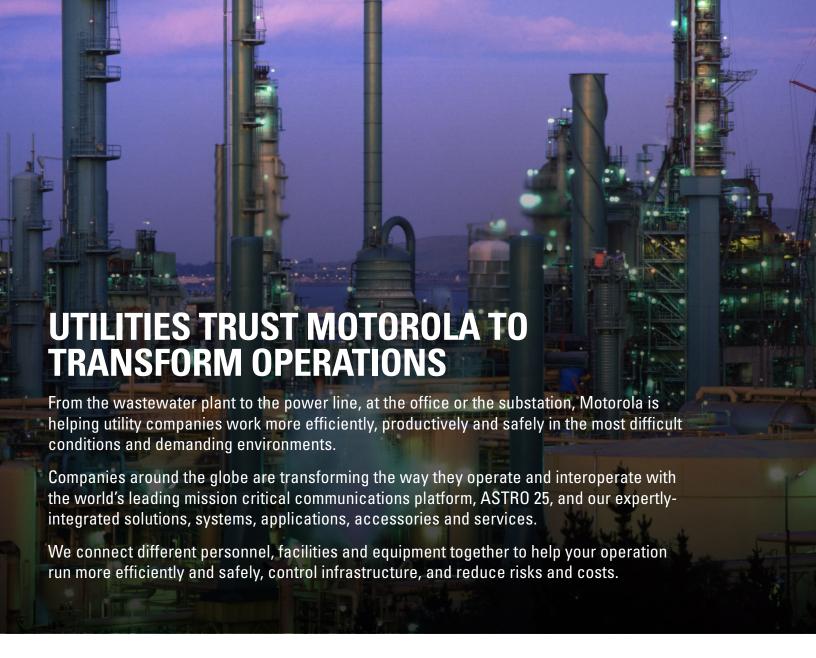


A dispatcher watches a storm role in on **CommandCentral Inform**. He can see the **SCADA** system and what assets will be in harm's way. The dispatcher can see where the storm has caused a major outage in the city and what equipment needs to be repaired.

Workers in that area are alerted on the **APX radio** that there has been a major outage. All workers in that area are placed into a talkgroup using **Geo Select**, so they can collaborate and fix the outage quickly.



The supervisor uses the **WAVE Work Group Communications** application on his LEX L10 to push to talk with the remote worker who's using their APX radio to repair equipment and restore power.



SOURCES:

- 1. 2014 Energy Market Review, Willis
- 2. "Cyber Attacks Up By 60 Percent At Water Utilities," Water Online, December 10, 2013
- 3. Critical Infrastructure: Security Preparedness and Maturity, Ponemon Institute and Unisys, 2014
- 4. Presidential Memorandum Federal Leadership on Energy Management, www.whitehouse.gov, 2013
- 5. "Facing the Heat," Electricity Today, September/October 2014

To raise safety and service while lowering costs, visit **motorolasolutions.com/utilities.**

Motorola Solutions, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. 800-367-2346 **motorolasolutions.com**MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2015 Motorola Solutions, Inc. All rights reserved.

