



# Rural Electric Cooperatives: Improve operations with reliable communications



Rural Electric Cooperatives (RECs) demand reliable wide area coverage across their expansive service territories. Immediate dispatch and communications in order to efficiently manage field workers is crucial when responding to service calls. In addition, RECs require easy-to-use communications in order to ensure employee safety, improve customer service, and reduce costs.

The MOTOTRBO™ Professional Digital Two-way Radio System is ready to help you respond to those challenges. Versatile and powerful, MOTOTRBO delivers a wide range of effective two-way radio communication with better basics and enhanced features. It combines the best in two-way radio functionality with digital technology to deliver increased capacity, integrated data applications and enhanced voice communication, where and when you need it.

## Coverage

Ensuring communication across the entire service territory is vital to the efficient operation of an REC. With digital technology, MOTOTRBO IP Site Connect provides a conventional radio system with clearer voice communications over a greater range than comparable analog radios, while rejecting static and noise. When signal strength drops off with distance, MOTOTRBO's digital error-correction technology can accurately deliver both audio and data content with virtually no loss throughout the coverage area. This results in clearer communication with your workers no matter where they are.

## Noise Suppression

Service workers out in the field can often find themselves in a noisy work environment. MOTOTRBO's background noise suppression feature helps to ensure communication comes through loud and clear. And with a complete line of audio accessories, including several that offer state-of-the-art IMPRES™ audio technology, your workers can utilize a wide variety of accessories to ensure they clearly hear the message and don't miss a call.

## Durability

Outdoor environments can be tough and a two-way radio needs to be durable to meet the demands of everyday use. MOTOTRBO radios meet Motorola standards for durability and reliability, and demanding specifications including IP57 for submersibility in water (portable models), and U.S. Military 810 C, D, E and F. Intrinsically safe models are also available on portable models and can be used in locations where flammable gas, vapors or combustible dust may be present. Your workers can be assured that their radios will stand up to harsh working conditions.

## Enhanced Battery Life

Responding to a service outage or emergency incident may require long work shifts. And they require communication equipment that will work throughout the entire shift. MOTOTRBO offers enhanced battery life to do just that. Digital TDMA two-way portable radios may operate up to 40% longer between recharges compared to typical analog radios. Furthermore, Motorola's state-of-the-art IMPRES™ energy technology allows communication between the battery and the charger to automate battery maintenance. The result – a radio system that is charged and ready to go whenever you need it.



### Locating Capabilities

Locating personnel is vital for efficient operations in a utility. With MOTOTRBO's integrated GPS capability, you can track your workers and vehicles, without cumbersome external GPS devices to install and maintain. In conjunction with location software applications, you can view the location of trucks and workers and dispatch the personnel closest to a service call.

### Text Messaging

Utility workers must be able to quickly share information such as status of a service call or maintenance activity. Text messaging enables workers to communicate this type of information quickly and easily. The MOTOTRBO text messaging feature allows communication between radios and dispatch systems, between radios and email-addressable devices, and to remote PC clients attached to radios. Whether it's the need for discreet communication or the ability to send quick text messages, you and your team are able to utilize another form of communication when needed.

### Analog to Digital Migration

A critical consideration for many RECs is how to best plan their communications system and at the same time, protect their investment for the future. Motorola's MOTOTRBO platform provides a smooth migration path from your current analog radio system into a full-featured digital network without the need to replace your entire radio infrastructure and all of the subscribers.

You can immediately begin using MOTOTRBO digital-capable products in the analog mode within your current radio system. The multiple-mode radios can operate at 25 KHz and 12.5 KHz analog as well as TDMA digital 12.5 KHz (6.25 equivalent). An easy FCC license modification allows use of your current 12.5 kHz channel for digital operations. The flexible migration solution will provide dependable communications today with a migration path to digital in the future when you're ready to equip the balance of the system.

### Value

As with any business, cost management in an REC is important to staying within budget. MOTOTRBO provides exceptional value for two-way radio communication. By utilizing TDMA digital technology, MOTOTRBO enables two virtual channels within a single 12.5 kHz licensed repeater channel. This provides twice the calling capacity within your current licensed channel. A second call does not require a second repeater, so you save on equipment costs.

MOTOTRBO also offers integrated voice and data communication capability, in one device. Using MOTOTRBO portable and mobile radios saves you the cost of additional equipment to utilize text messaging and GPS-based location tracking applications.

To help control the cost of replacing batteries, Motorola's state-of-the-art IMPRES technology automatically maintains your battery fleet to make sure talk-time is maximized throughout the life of the battery. Furthermore, with MOTOTRBO there are no recurring monthly fees and no per-call charges. So there is no longer a need for estimating monthly usage fees.

MOTOTRBO offers the quality you have come to expect from Motorola products. In addition, MOTOTRBO radios are backed by a limited two-year warranty, plus one year Repair Service Advantage (US only) / Extended Warranty (Canada).

### Summary

Today's work environment requires efficiency and productivity in order to provide the best service for your customers – and two-way radio communication can help to do just that. Powerful, scalable and future-ready, the MOTOTRBO Professional Digital Two-way Radio System is designed to improve your response time and increase your productivity and efficiency today – and tomorrow.



[www.motorola.com](http://www.motorola.com)

Part number RO-4-2117 06/09 MOTOROLA and the Stylized M Logo are registered in the US Patent & Trademark Office. All other product or service names are the property of their respective owners. ©2009 Motorola, Inc. All rights reserved. For system, product or services availability and specific information within your country, please contact your local Motorola office or Business Partner. Specifications are subject to change without notice.