



# Water Resource Agency Taiwan

A project to improve the worsening land subsidence situation.



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Taiwan to deploy Motorola's MESH / SCADA System to track its groundwater.

## Background

Taiwan had introduced a new monitoring system for its groundwater application this year as part of the island's efforts to boost management capabilities against the worsening land subsidence situation. This deployment will be the first attempt by government agencies around the globe to use Motorola's state-of-the-art MESH and SCADA solution for such application. The system is "expected to effectively collect the real-time and quality information of the groundwater well in southern Taiwan," said Taiwan's Water Resource Agency (WRA), the management body of water resources in and around the beautiful island of Taiwan.

Aided by Motorola's engineers and local system integrator, the system would play a crucial role in supplementing WRA's current groundwater monitoring network which is made of 550 observatory wells in 235 sites using automated logger for basic functions. With the successful implementation of this MESH/SCADA system, WRA will be able to access to the real-time data of some 25 groundwater wells, located around the Chungwa and Chiayi region, where the land subsidence condition is causing concerns. The system, evolved from the existing manual data collection mechanism that has been in service for over a decade, had been scheduled to begin operating from the summer of 2007.

### **Robust Data Solution for Use Even in Harsh Outdoor Environments**

WRA is running a network of 550 groundwater observatory wells, the largest network in the ASEAN region, for various meteorological purposes; and turn to Motorola, through an open tender process, for solution to increase efficiency and improve coverage of its existing monitoring plan. Motorola had helped to install MOSCAD-based SCADA system and its latest MESH solution that would systematically and efficiently manage data collection programs to reduce risk and minimize human effort.



### **Reliable and Flexible Data Routing Capabilities**

The Motorola-designed SCADA and MESH-based system consists of a PC-based Master control center located in WRA's 4<sup>th</sup> River Management Office in Chunghwa County. There are 12 Motorola MOSCAD remote sites situated through the country side of Chunghwa and Chiayi County. These remote sites automatically collect groundwater related information and transmit it cyclic mode to the master control center via a telemetry system using MESH broadband high speed radios.

The SCADA and MESH-based MOSCAD system is a vital link in improving the quality of water resource management for Taiwan WRA, and allow this management agency to continuously provide better service to foster this country's natural resources.



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