

Before



Case Study: Q Mountain

When Cactus State acquired the Q Mountain water system in La Paz County, the Rainbow Acres community was facing significant challenges with its water supply. The entire community relied on a single well that was powered by a diesel generator. This setup was far from ideal, as the diesel generator required continuous refueling and maintenance to keep the water flowing, and there was no electric service available to the well. The situation was not only unsustainable but also posed a risk to the community's continuous access to safe drinking water.

Recognizing the critical need for a more reliable and sustainable solution, Cactus State took immediate action. To address these challenges and meet Arizona Department of Environmental Quality (ADEQ) compliance standards, Cactus State implemented an innovative approach by installing solar panels at the main supply well. This cutting-edge solution eliminated the community's dependence on the diesel generator, reducing the environmental footprint of the facility. The solar power installation now ensures a continuous and reliable water supply, with minimal environmental impact.

In addition to the solar panel installation, Cactus State conducted comprehensive inspections of all tanks and equipment within the Q Mountain system. These inspections revealed that two of the tanks were in such poor condition that they required immediate removal and replacement, a task that Cactus State completed after securing the necessary approvals from ADEQ.

To further enhance the reliability of the water system, Cactus State installed advanced remote monitoring technology at both well sites. This technology allows for real-time tracking and alerts operators to potential issues around the clock. This proactive measure enables a 24/7 response from technicians, ensuring that any problems are addressed before they can affect the quality or reliability of the water service.

Through these comprehensive upgrades, Cactus State has transformed the Q Mountain water system into a reliable, sustainable, and eco-friendly water source for the Rainbow Acres community. The residents now enjoy a stable and safe drinking water supply, with the assurance that the system meets all regulatory requirements. Cactus State's efforts reflect a strong commitment to sustainability, responsible water management, and customer satisfaction, securing a healthier future for the Rainbow Acres community.

After

