



Four C65 Capstone microturbines fueled by wellhead natural gas have averaged 99% runtime since 2011. This is the producer's third microturbine site.

#### Location

Southwestern United States

#### Commissioned

April 2011

#### Application

Coal bed methane water injection facility

#### Fuel

High pressure natural gas from wellhead

#### Technology

4 C65 Capstone microturbines

*"The site's at 7,000 feet (2,134 meters) in an extremely remote area without utility power. Winter temps can get below zero. Even in these tough conditions the facility has continuously remained online."*

-Hop Lee, Horizon Power Systems

## Steady power keeps water flowing

Non-stop pumping of nearly 300,000 gallons of produced water each day at a coal bed water injection well site required non-stop power. To ensure uninterrupted power at the extremely remote, unmanned site, the producer turned to reliable Capstone microturbines from Horizon Power Systems. Miles from the closest town and utility lines, and at an altitude of 7,000 feet (2,134 meters), the site required a low-maintenance power system able to withstand substantial weather fluctuations.

Electricity from the four C65 microturbines is the site's only power source for filtration booster pumps, air compressors for pneumatic controls, water injection pumps, water transfer pumps, heat-tracing systems, site lighting, control systems, automation, and computer systems. Since their 2011 installation, the microturbines that each produce 65kW have averaged 99% uptime.

"They run on raw natural gas produced from the field," said Hop Lee, Horizon Power Systems' Corporate Account Manager. "The producer is so pleased with microturbines they now have a fleet of over 175 in multiple locations."

Capstone microturbines meet or exceed the world's toughest emission standards. "The site didn't require any additional emission-reduction equipment since the microturbines already meet EPA standards," Lee said.

- **Over 175 microturbines** in producer's fleet
- **Only power source** for nearly all onsite equipment
- **Meets EPA emissions standards** without additional equipment

