

Proactively manage CO₂ storage risks with a simplified, no-intervention monitoring solution

CO₂Watch autonomous CO₂ monitoring service

bakerhughes.com

Copyright 2024 Baker Hughes Company. All rights reserved. 85164 (Rev. 10/2024)

The CO₂Watch™ autonomous CO₂ monitoring service is a low-OPEX, no-intervention solution designed to simplify monitoring and help ensure the integrity of the sequestration site. CO₂Watch integrates five complementary remote field measurements—from shallow to deep into the reservoir—to enhance understanding of CO₂ conformance and confinement through CO₂ plume mapping, control spot verifications, caprock and fault structural integrity, and groundwater and soil quality.

MANAGING RISKS IN NEAR REAL-TIME

CO₂Watch is the only system to track multiple measurements at various subsurface depths simultaneously. This data is collected and processed in near real-time, allowing operators to identify and respond to anomalous measurements quickly.

MINIMIZING OPEX

CO₂Watch combines an array of 10 to 20 autonomous monitoring stations at the surface with multipurpose, commercially available, high-resolution sensors installed

in a shallow well. This simplified, low-footprint monitoring design, combined with wireless data communication and weeks of power and data buffer capability, helps minimize OPEX and maintenance trips to the site.

PROVIDING PEACE OF MIND

CO₂Watch monitors the integrity of the storage site for the life of the project. Continuous and near real-time monitoring allows operators to stay ahead of uncertainty and the wide range of integrated measurements provides assurance to local communities, regulators, investors, and other stakeholders.

APPLICATIONS

- CO₂ site storage monitoring
- Periodic measurements of groundwater and soil quality

BENEFITS

- Provides early warning of storage risks for fast, accurate response
- Saves 20 to 30% of subsurface monitoring OPEX compared to traditional measurements
- Gives peace of mind to local communities, regulators, and investors

