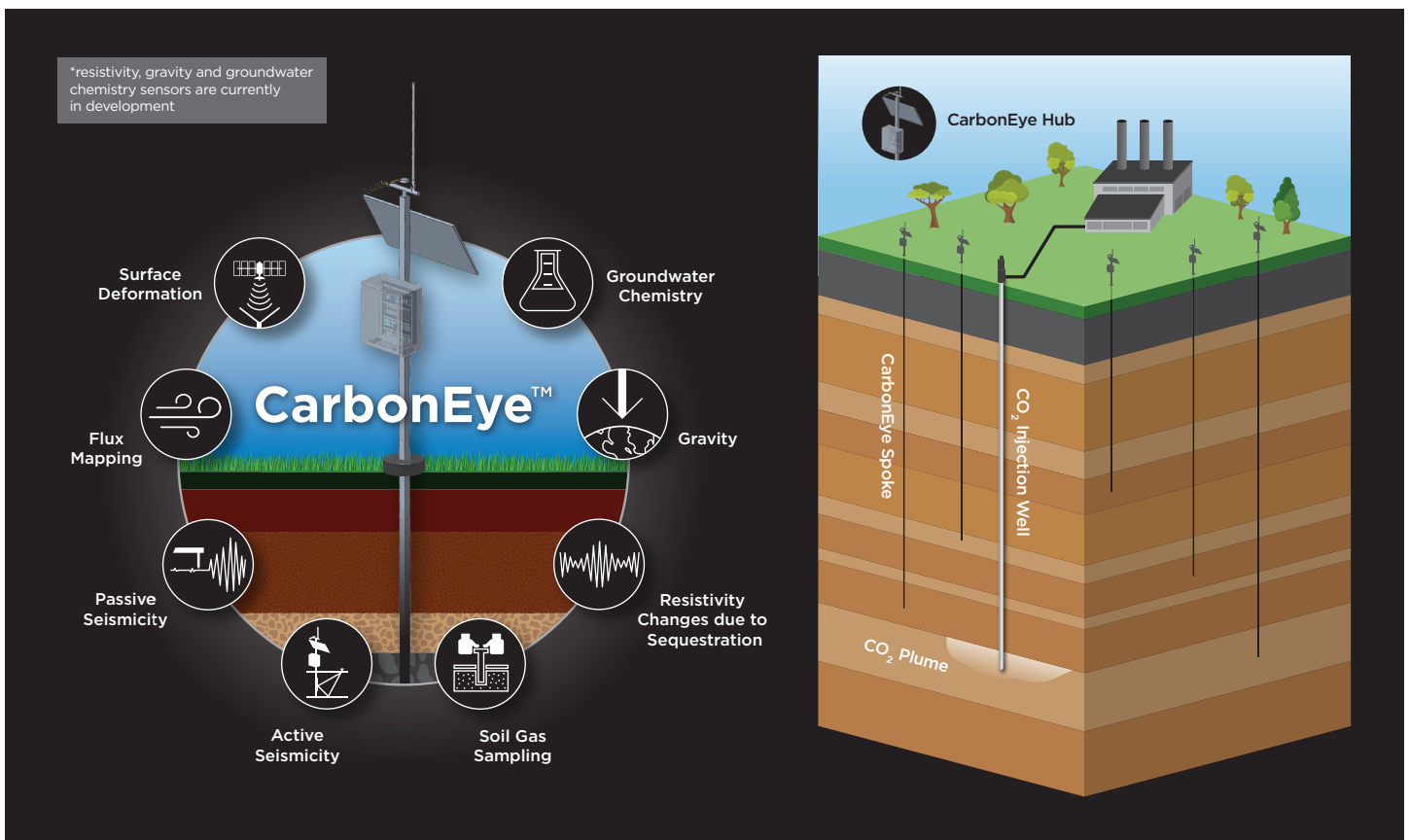


Battelle CarbonEye™

An Autonomous, Multi-Sensor CO₂ Monitoring Solution

As the carbon capture and storage (CCS) industry develops and permits the injection of CO₂ into the subsurface, there will be an increased demand for monitoring solutions to satisfy EPA and California Air Resource Board (CARB) requirements. These requirements will include regulatory reporting that leverages monitoring data to prove that CO₂ has not impacted the environment and the distribution of the CO₂ plume in the storage reservoir has evolved as predicted by modeling. Companies seeking permits will need to have an identified monitoring solution to provide data to give early warnings about CO₂ migration and nonconformance.

In response to this market need, Battelle is developing CarbonEye™, a deployment ready, customizable, multi-physics monitoring solution platform for stored CO₂. CarbonEye™ is a monitoring sensor system coupled with integrated data management that takes **more frequent measurements to reduce the cost of monitoring and overall storage risks.**



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CarbonEye™ allows for indirect monitoring of the CO₂ plume typically achieved through active seismic methods. It will provide a unique, cost-effective combination of a novel seismic source and seismic receiver, coupled with a Living Model to provide regular updates on CO₂ plume development during injection. Once acquired, this data will be used to update the surrogate models within the Living Model to produce updates more frequently and cost effectively than otherwise available.



Contact us today to learn more.