

# Carbon Capture and Sequestration (CCS) Applications

A key pathway for your Net-Zero strategy



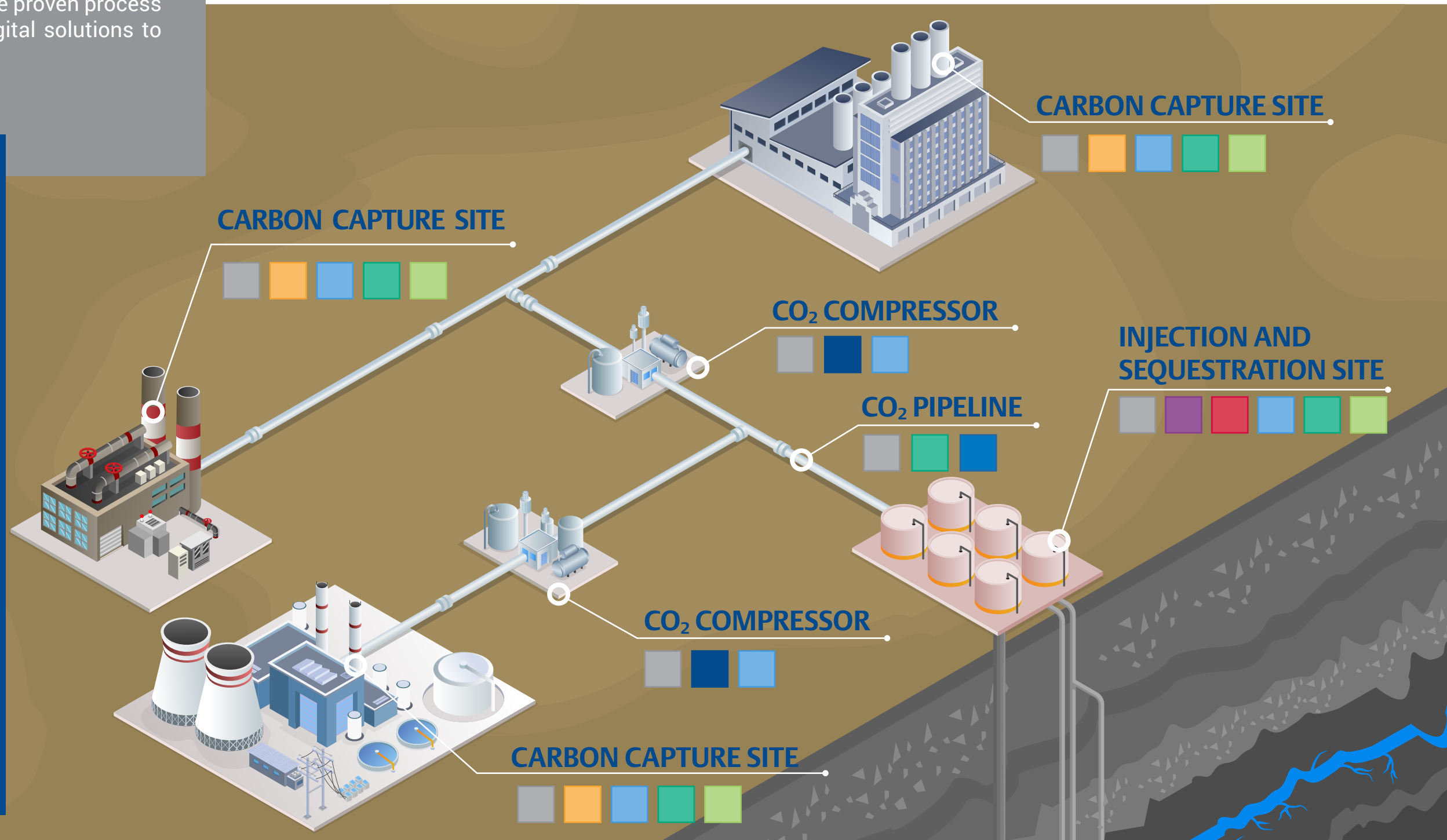
# Carbon Capture and Sequestration (CCS) Applications

## Solutions for Key Challenges in CCS

CCS offers a proven method for removing carbon at a large scale from emission sources. Deploying Carbon Capture, especially at scale, does have its challenges. At Spartan Controls, we have proven process control, automation and digital solutions to many such challenges.

### Key Challenges in CCS

- **Cost:** According to the Global CCS Institute, levelized costs range from \$50 US/t to over \$250 US/t.
- **Energy-Use:** Carbon Capture is an energy intensive process resulting in relatively high operating costs.
- **Corrosion:** Liquids and hydrates in the transport systems can lead to severe corrosion causing premature equipment failures.
- **Carbon Containment:** Carbon leakage during transport as well as post-sequestration is a major concern and a key regulatory requirement.
- **Reliability:** Carbon Capture process must operate continuously and efficiently



Electric Drive Compression Control	Atmospheric Leak Detection and Monitoring	CO <sub>2</sub> Metering and Quality Analysis	Valves for CCS Applications	Heat Exchanger Performance Monitoring	Process Control & Automation Systems	Motors and MCCs	Carbon Accounting Data Management	Corrosion and Erosion Monitoring
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