

What water and gas shut off technologies are available that we are unaware of?



We provided a technology landscape of chemical and mechanical water and gas shut off technologies (WGSO), developed by small and medium enterprise (SME) technology providers, for an international oil company (IOC).

Technologies

- Water and Gas Shut Off
- Mechanical WGSO
- Chemical WGSO

Domain expertise

- Production Engineering
- Oilfield chemicals
- Production chemistry
- Reservoir engineering





Our client asked:

Our client asked us to identify emerging and niche WGSO technologies provided by vendors they might not have been exposed to.

Our client was familiar with chemical and mechanical WGSO technologies offered by large technology providers but was less familiar with those offered by SMEs. We were asked to conduct a technology landscaping, focusing on the mechanical and chemical WGSO products offered by SMEs.

The project story:

We combined literature research and technology provider interviews to identify around 70 WGSO niche products that the client was unfamiliar with. We then eliminated products that were similar to those already known about through a series of regular meetings, leading to a final workshoping stage.

The remaining products (around 15) were included in our final presentation, which contained an overview of the technologies – including details like conveyance and placement methods, application, benefits and limitations, case history, and testimonials – as well as an overview of each manufacturer and its product range.

Results: deliverables and outcomes

We were able to identify around 70 WGSO niche products that our client had not previously been exposed to, broadening their pool of products and technology providers.

Our IOC client gained insights into niche WGSO technologies provided by small service companies and a number of new technologies were brought to their attention which lead to the formulation of alternative approaches for water and gas management.

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