

HEAVY OIL CAPABILITIES





Wellpads

Equinox's design philosophy regarding SAGD and CSS wellpads is to 'design one, build many'. We work with our clients to develop a sustainable design to incorporate all requirements of the reservoir and process conditions, balanced against the requirements of the production strategy, the facility design and operational preferences.

Within the scope of a large well pad program, we provide our clientele with opportunities to standardize the design allowing consistency and cost effectiveness going forward.

We also work closely with our clients to develop and optimize well pad design regarding:

- optimal number of well pairs per module;
- ideal number of modules per pad;
- · use of proven or emerging technologies for production;
- · wellhead control module design;
- test and group separation strategy and location;
- ES-SAGD technology implementation.

Above Ground Pipelines

Equinox's experience in above ground pipeline design and stress engineers are skilled in material design and implementation is unrivalled.

We have extensive project experience with steam, emulsion, production gas and fuel gas pipeline projects for SAGD and CSS applications. This from the CPF.

Our civil and earthworks team are also experts in includes tie-ins to pads as well as trunklines to and design and construction considerations for pipeline support and anchor design.

selection requirements for pipeline, expansion loops, transitions and valve stations as well as road



Sustaining Capital

Equinox understands the importance of maintaining an efficient operation, and the costs of downtime.

We have a long history of executing small and midsized projects in live operating environments. Our project experience includes Sustaining Capital, Maintenance Capital as well as Management of Change (MOC) projects. This includes ongoing plant support, annual turnarounds, modifications, optimizations and debottlenecking.

Our 'MOC Work Flow' program works efficiently to address the fast paced requirements of in-plant maintenance and MOC projects. If appropriate, Equinox will embed personnel onsite, to work as a team with our clients. Our program has been refined over the past several years for SAGD production

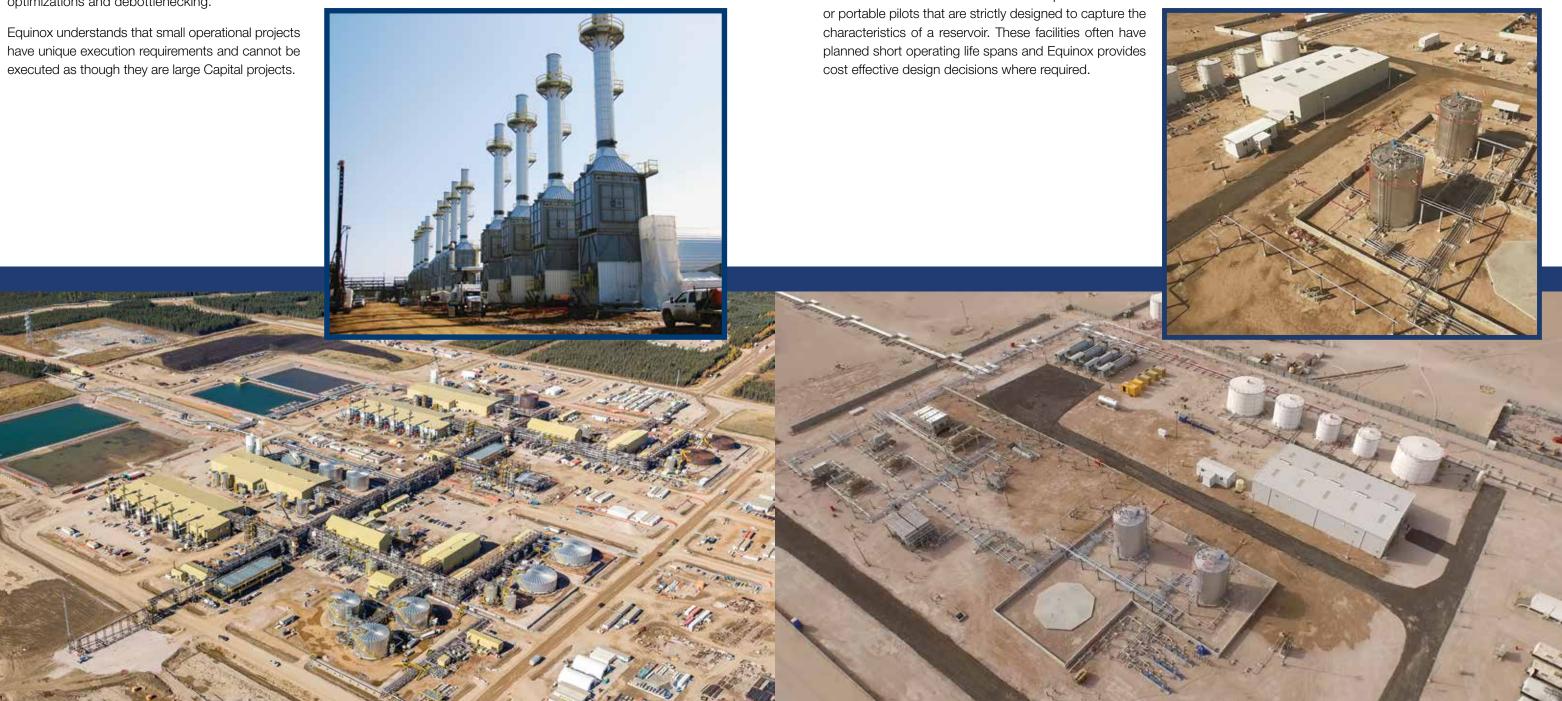
Pilot Plants

Equinox has successfully executed numerous SAGD and CSS pilot plant projects, including conceptual studies, FEED and Detail Design.

We provide the consulting expertise to develop a fit-for-purpose design to meet specific piloting requirements, such as testing the reservoir to validate the size of a commercial facility, or to test a new technology in a field environment.

We have worked with clients to develop modular and/

Equinox also has substantial experience with new technology being adapted and piloted to demonstrate its effectiveness in a field environment. Our civil and earthworks team are experts in design and construction considerations for pipeline support and anchor design. The team are also experienced with access road and wellpad earthworks design.





Equinox delivers focused and experienced

Premium Teams

customized with the best

Technical Expertise

to align with

Client Culture

to ensure repeatable and

Successful Projects



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