

ONSHORE GAS

Facilities & Pipelines







COAL SEAM GAS

Equinox provides a complete range of engineering services for Coal Seam Gas (CSG) facilities.

Equinox specialises in Coal Seam Gas developments including field facilities (wellsites, gathering lines), compression (field and nodal), Central Processing Facilities (gas treatment, water treatment, power generation) and transmission pipelines.

We have executed hundreds of unconventional gas projects including coal seam gas, shale gas and tight gas.



Equinox has significant experience with power generation facilities. Equinox expertise includes natural gas fired, reciprocating engine generators (gensets); combined cycle Gas Turbine Generators (GTG); Cogeneration; Single or Dual fuel for the power plant feedstocks as well as Steam Turbines.



Equinox has successfully executed hundreds of compression projects. Our extensive gas compression experience includes centrifugal, reciprocating, rotary screw and vane type compressors for all sweet and sour gas applications, as well as gas turbine, natural gas engine, steam turbine and electric drivers.



Equinox has designed and completed thousands of well site tie-ins as well as gathering systems, trunk and group lines. We have industry leading expertise in unconventional, multi-well wellpad design as well as CSG single well designs.



Equinox has significant experience with liquids recovery from natural gas streams. We have executed numerous projects utilizing refrigeration, hydrocarbon dew point control and liquid recovery plants including propane refrigeration, mixed refrigerant plants, Joule Thompson (J-T) refrigeration, turbo-expanders, de-ethanizers, depropanizers and de-butanizer facilities.





FEED, Detail Design and installation for brownfield plant expansion from 30 TJ to 90 TJ utilizing existing Standard Design package for gas processing plant design. Project includes inlet gas manifold, main compression, booster compression, TEG dehydration, fuel gas skid, sales gas metering, utilities, as well as water treatment.

Completely modular design for simplified execution and construction in the Surat basin. Utilisation of steel piles for structural foundations for piperack and equipment modules.



Development of 'Standard Design' 60 TJ Central Processing Facility (including inlet header, slug catcher, compression, dehydration, coalescer and metering).

Design modularized for simplified execution and construction in Surat / Bowen basin regions, with pipe rack module dimensions designed for travel on Queensland roads without need for escort or pilot vehicles. Option for gas engine or electric drive compressors. Extensive civil engineering review of steel piles compared to concrete pads and piles for structural foundations for piperack and equipment modules.



FEED, Detail Design and installation for 60 TJ sour processing facility with 16,000 bpd of liquids. Fast tracked (9 month) schedule including engineering through to commissioning and start-up. Equipment includes inlet module for multiphase gathering lines, inlet separation, compression, dehydration, emulsion pump package, instrument air, fuel gas, MCC building, power generation, LP and HP flare, office / control building.



Equinox executed the FEED and Detail Design for the brownfield sour gas plant expansion to 250 TJ capacity. Newly installed facilities include refrigeration, condensate stabilization, compression, vapour recovery unit, power generation as well as an upgraded amine sweetening plant.







FEED and Detail Design for a sour gas plant with three process trains totaling 100 TJ with process gas conditions of 2.6% H2S and 3.0% CO2 from the Montney.



FEED, Detail Design and installation of 50 TJ single train gas plant. Facility includes inlet separation, condensate stabilization, inlet compression, sales compression, refrigeration, de-ethanizer, vapour recovery unit, power generation, recycle system, storage for produced water, condensate and NGL.



FEED, Detail Design and Installation of 30,000 bbl/d Liquids Terminal & Pumping Station, including 22,000 bpd pf sour condensate and 8,000 bbl/d of produced water. Major equipment includes inlet separation, condensation stabilization, mercaptan removal, compression, pump packages, condensate storage (15,000 bbl), water storage (10,000 bbl), power, utilities.



FEED, Detail Design and installation of 60 TJ dual train, sour gas plant. Processing trains (2 x 30 TJ) include inlet separation, inlet/sales compression, amine sweetening, refrigeration, liquid fractionation and stabilization, acid gas compression, vapour recovery, recycle system, storage for produced water, condensate and NGL.



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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