



GHD Oil and Gas - Hydrocarbon and Hazardous Plant Process Engineering

WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION

GHD's process engineers provide innovative, economic and sustainable process solutions from concept selection to detailed design.

We tailor solutions for projects ranging from small scale process modifications to large-scale plant upgrades and new facilities.

As an independent engineering design company, we can evaluate all technologies available and make selections based on the best interests of the project.

Process engineering

- Conceptual and/or feasibility studies
- Front End Engineering Design (FEED)
- Detailed design
- Process hazard management (e.g. HAZID, HAZOP, SIL, PHA revalidation)
- Site investigations
- De-bottlenecking and trouble-shooting
- Operating instructions and commissioning

Capabilities

- Process flowsheet simulation using Hysys or Aspen Plus
- Technology selection and process development
- PFD, P&ID and MEB development
- Pipeline flow assurance including blowdown, rupture, purging
- Gas compression including gas conditioning
- Gas metering and pressure regulation stations
- Process safety (e.g. PSVs, BDVs, vent and flare design)
- Consequence modelling (e.g. gas dispersion, thermal radiation and explosion overpressure)
- Tank farms and terminals design
- Utility Systems (e.g. fuel gas, cooling water, steam, thermal fluid and process drains)

For more information, please contact:

www.ghd.com/oil-gas

