



Computer Modelling Group LTD (CMG)

## CMG is the world's leading independent supplier of dynamic reservoir simulation and production technologies.

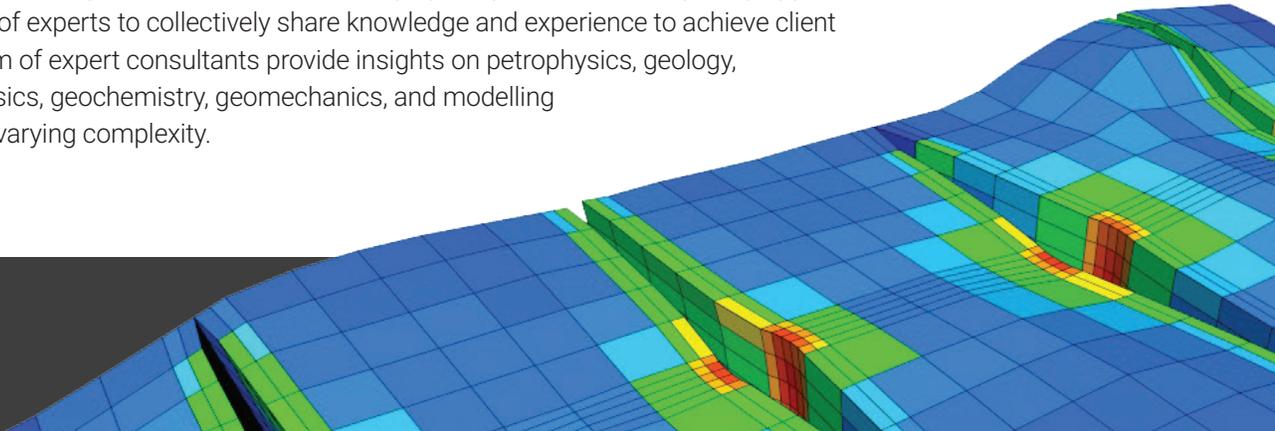
Providing innovative simulation technology and expert consulting solutions, CMG enables energy companies globally to optimize field development plans and assess and implement low-carbon energy technologies for a sustainable and secure energy future. The combination of science and simulation technology with deep industry expertise allows CMG to solve complex problems across the reservoir and production value chain.

### BENEFITS OF PREDICTIVE AND COMPARATIVE ANALYSIS THROUGH CMG SIMULATION



#### Consulting Expertise

The unique challenges of today's reservoirs and resource plays require a multi-disciplinary approach that leverages a team of experts to collectively share knowledge and experience to achieve client outcomes. CMG's team of expert consultants provide insights on petrophysics, geology, hydrogeology, geophysics, geochemistry, geomechanics, and modelling for energy projects of varying complexity.





### Intelligent Optimization & Analysis Tool

CMOST™ identifies the best solution for a reservoir by combining advanced statistical analysis, machine learning, and non-biased data interpretation with your engineering expertise. Using the powerful Sensitivity Analysis, History Matching, Optimization, and Uncertainty functionality, CMOST helps to maximize recovery and NPV.



### Black-Oil & Unconventional Simulator

IMEX™, the world's fastest black oil reservoir simulator, is used to model primary, secondary, and tertiary oil recovery processes. Use IMEX for screening prospects, setting up pilot designs, monitoring and optimizing field operations, and improving production performance.



### Compositional, Unconventional & Advanced Processes Simulator

GEM™ is the world's leading reservoir simulation software for compositional, chemical, and unconventional reservoir modelling. This advanced general Equation-of-State (EoS) compositional simulator accurately replicates the physics and chemistry of what's happening in a reservoir to assist in field optimization and overall recovery.



### Thermal & Advanced Processes Simulator – STARS™

STARS™ is the undisputed industry standard in thermal, chemical EOR, and other advanced processes. The robust geochemical and geomechanics capabilities make STARS the most complete and flexible reservoir simulator available.



### Pre-Processor: Simulation Model-Building

Builder™ is an interactive, intuitive, and easy-to-use interface which enables quick and efficient design and preparation of simulation models for all CMG simulators.



### Post-Processor: Visualization & Analysis

Results™ delivers state-of-the-art visualization and analysis capabilities to provide insight into reservoir characteristics, recovery processes, and reservoir performance. Quickly compare simulation outputs with field history data, analyze multiple views in the same window, and personalize the interface to show plots of interest.



### Integrated Production System Modelling

CoFlow™ is the industry's first enterprise solution that allows reservoir and production engineers to truly collaborate on the same asset. The multi-fidelity, multi-disciplinary, and multi-reservoir capabilities result in superior engineering and economic decisions, time savings when going from concept to field implementation, and optimization of field operations for high stakes assets.



### Hydraulic Fracture & Unconventional Simulation

ShaleSim™ is a cloud-based hydraulic fracture simulation package for unconventional resources. It quickly and accurately predicts full-well, full-pad fracture growth and production forecasts through coupled geomechanics and reservoir simulation. It provides the insights needed to assess parent-child interactions, manage interference effects, and make confident development decisions.



### Fluid Property Characterization

WinProp™ creates tuned fluid property descriptions for CMG simulators and black oil fluid property data for third-party reservoir simulation software. WinProp's robust calculation engine quickly solves complex calculations enabling users to predict fluid behaviour and to improve understanding of the reservoir recovery process.



### All-In-One Simulation Platform

Focus CCS makes it easy to simulate asset viability and de-risk your CCS project. Guided workflows help you quickly and easily build CCS models and view results in one interface.



### Advanced Transient Wellbore Modelling

CO2LINK™ is a dynamic link between CCS subsurface simulator (CMG GEM) and transient wellbore simulator (KDI Ledaflow) for modelling complex CO<sub>2</sub> phase transitions.



### Cloud: Fast, Easy & Efficient

Cloud™ is the next revolution in technology and will change how industry conducts business. CMG offers scalable and flexible solutions on a variety of environments.