

# Did you know...?

CMG is connected to the seismic-to-simulation-and-back workflow to achieve increased productivity & integration

CMG is integrated to seismic with multiple G&G products

- GOCAD<sup>®</sup> (Paradigm)
- Jewel Suite<sup>®</sup> (Baker Hughes)
- Petrel<sup>®</sup> (Schlumberger)
- RMS<sup>®</sup> (Emerson-Roxar)

Builder™ has user-friendly workflows for data transfer:

- Geological models & data
  - RESCUE<sup>®</sup> (industry standard for ECL & CMG grid formats)
- Geomechanics-based hydraulic fracture data:
  - FRACPRO<sup>®</sup> & STIMPRO<sup>®</sup> (RESNET)
  - FracPredictor<sup>®</sup> (FracGeo)
  - FracProPT<sup>®</sup> (Carbo)
  - GOHFER<sup>®</sup> (Barree & Assoc)
  - StimPlan<sup>®</sup> (NSI Technologies)

CMG is also coupled to:

- Geomechanics
- Surface Network

CMG is coupled to production engineering software:

- GAP<sup>®</sup> (Petroleum Experts)
- PIPESOFT<sup>®</sup> (Ensoftec)
- CoFlow™ provides complete integration of reservoir, production & geomechanics



Converting simulation models to CMG is **quick** and **seamless**

One Click Data Import Conversion

User-friendly, automated ECLIPSE conversion workflow

Quick and easy, drag and drop functionality

Seamless model conversion

CMG will help you convert your simulation models to CMG at **no extra cost**

CMG converted **306** reservoir models (2013-2016)



CMG is **faster** than the competition on every performance benchmark we're invited to

CMG models run **fast, right out of the box**  
CMG is always **researching and optimizing** solver and parallel performance

CMOST™ license multiplier helps you complete **more simulation runs** and reduce overall study time

CMG's Simulators

Faster Model Run Time

- Timely Decision-making
- Short Term Operational Decisions
- Long Term Design Plan

More Runs

- Less Uncertainty
- Better Decisions
- Minimize Risk



CMG simulators remain the **industry standard** for usability, physics, robustness & performance

Builder & Results™  
Create and analyze results in a user-friendly, workflow-based environment

Easily import or create:

- Geological models
- Reservoir property distribution
- PVT models
- Injection/production history
- Well trajectories & completions
- Hydraulic fracture data

**>570** Companies

in **58 countries** choose CMG to model complex recovery processes because of the robust and detailed physics

World-class SA, HM, OP and UA workflows, data analytics, and simulation job management

leads to...

**quick decision making, and efficient execution** of small to large scale projects

CMG's licensing model is **significantly lower** than the competition, reducing the overall cost for simulation



CMG software is "plug & play"

No need to purchase additional modules to get more features or advanced functionality

No hidden "integration" fees or 3rd party plug-ins required to import data, manipulate well patterns or optimize field plans

CMG has had only **two** nominal price increases in the past 16-years

CMG's flexible needs-based licensing plans results in **cost savings:**

- CMOST license multiplier = **great scalability** across multiple cores
- CMG's private cloud licensing helps **optimize simulation and hardware costs**



CMG is **superior** in modelling conventional, secondary recovery and unconventional reservoirs

World's fastest black oil reservoir simulator

- Models **all aspects of primary and secondary recovery**
- In development for >35 years and used in >42 countries



Fast and easy transition from an **IMEX** black oil model to EOR process modelling in **GEM** and/or **STARS** advanced processes simulators for **asset recovery evaluation and optimization**

**500+** Consulting Projects

for **200+** customers worldwide

CMG has repeatedly proven the **value of simulation** in enhancing and optimizing recovery from assets



CMG Pioneered the theory on reservoir simulation technology and advanced recovery processes

**>4500** technical paper references

**>300** technical papers authored by CMG

Probabilistic Forecasting + Robust Optimization workflows

- Minimize risk
- Accurately predict probability of reservoir success

**91%** Rate of Success

Case Study: Robust Optimization method **increased the rate of success to 91%** on a Low Salinity Waterflood development plan (SPE-173194)



CMG actively **collaborates** with customers on software features and enhancements

Customer input has resulted in many feature enhancements, including:

Modelling Flow Control Devices in STARS

Geochemistry and other chemical EOR modelling capabilities in GEM

Geomechanics-based hydraulic fracture import from 3rd party software to Builder

CoFlow is the result of a multi-year development partnership between CMG, Shell and Petrobras

For a complete list of customer inspired features, please contact sales@cmgl.ca

**20%**

CMG reinvests **annual revenue** into **Research and Development**

CMG's focus on reservoir simulation

leads to... **customers' sharing strategic direction, industry collaboration** and the continuous improvement of CMG software



**Contact**

For more information please contact sales@cmgl.ca



**R&D Investment**

CMG reinvests 20% annual revenue back into R&D, to further innovation and drive technology forward



**Superior Software**

CMG delivers easy to use software that provides the most accurate results



**Dedicated Support**

Experienced technical sales & support personnel, deliver high-quality, timely and personalized customer support



**Relevant Training**

CMG's industry renowned reservoir software training provides the skills to improve productivity and efficiency