Providing unique perspectives on our planet

Providing a comprehensive range of data, products, services and solutions for complex natural resource, environmental and infrastructure challenges.
Our values

**We are problem solvers**
Curious and passionate about constantly advancing science and technology to discover new insights, innovations and solutions for all our stakeholders

**We are open**
Always inclusive and believing good ideas can come from anyone, anywhere

**We are responsible**
Caring deeply about the Earth and doing the right thing, always acting safely and with integrity

**We are driven to go beyond expectations**
Continuously delivering outstanding service for our clients
Our ESG Commitments

Always act responsibly and abide by all applicable environmental laws

Continue to advance our data collection capabilities to best measure, monitor and continuously reduce our impact

Encourage and support our businesses and employees to take specific actions that support the environment, climate and communities

OUR CARBON NEUTRALITY STATEMENT

We pledge to be carbon neutral by 2050

By lowering our direct emissions (scope 1 & 2) to the lowest practical level and by bridging the gap to zero emission by way of carbon credits only if they are originating from our own activity.

<table>
<thead>
<tr>
<th>GHG emissions</th>
<th>2019: 3 Kt</th>
<th>2020: 2 Kt</th>
<th>50% reduction by 2030 100% by 2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 (K tons CO₂ eq)</td>
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</table>

<table>
<thead>
<tr>
<th>GHG emissions</th>
<th>2019: 55 Kt</th>
<th>2020: 51 Kt</th>
<th>50% reduction by 2030 90% by 2050</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 2 (K tons CO₂ eq)</td>
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<tr>
<th>% Green Energy</th>
<th>H1 2020: 23%</th>
<th>FY 2020: 30%</th>
<th>50% in 2030 90% in 2050 or sooner depending on availability and prices</th>
</tr>
</thead>
<tbody>
<tr>
<td>(total kwh consumption Scope 1 &amp; 2)</td>
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<thead>
<tr>
<th>Power Usage Efficiency</th>
<th>2019: 1.33</th>
<th>2020: 1.32</th>
<th>&lt;= 1.2 by 2030</th>
</tr>
</thead>
</table>
Our leadership

Sophie Zurquiyah
CEO

Peter Whiting
Geoscience

Dechun Lin
Multi-Client

Emmanuelle Dubu
Acquisition & Equipment

Yuri Baidoukov
Finance

Eduardo Coutinho
Group General Counsel

Jerome Denigot
Human Resources

Hovey Cox
Marketing, Sales and Communications

Emmanuel Odin
Health, Safety, Environment Sustainable Development
Our Business Line Management

Peter Whiting  
Geoscience

- Fred Li  
  VP SI EAME
- Tony Huang  
  VP SI NAM
- Qing Xu  
  VP SI APAC
- Chu-Ong Ting  
  SVP SI Research & Development and SI Brazil
- Sharon Howe  
  VP Digital Services & Innovation
- Dave Priestley  
  VP Energy Transition & Environment
- Chris Page  
  VP Natural Resource Science & Analytics

Dechun Lin  
Multi-Client

- Bob Gauer  
  VP MCNV Gulf of Mexico
- Thomas Obidairo  
  VP MCNV, EAMEK and APAC
- Erling Frantzen  
  VP MCNV Scandinavia
- Erin Allen  
  Director, MCNV US Land
- Julio Perea  
  VP MCNV Brazil
- Christian Milne  
  VP Geosolutions and New Ventures
- Mark Ambrosi  
  Director, Data Management Technology, MCNV
- Mark Paton  
  VP GeoSpec

Emmanuelle Dubu  
Acquisition & Equipment

- Jean-Cedric Prouvost  
  VP Strategy & Diversification
- Yannick Seguin  
  VP Marketing & Sales Group
- Daniel Boucard  
  SVP Technology
Financial overview • 2020 full year

- **REVENUE**: $955 m
- **EBITDAS**: $361 m
- **NET DEBT AT**: $849 m
Geoscience Global Footprint

Operations: 58%
- Sales: 16%
- R&D: 11%
- IT: 11%
- Support: 4%

Subsurface Imaging: 56%
- Storage and Data Solutions: 21%
- Natural Resources, Energy Transition & Environment: 15%
- Business Support: 9%

28 Locations Globally
- 16 Subsurface Imaging open centres
- 7 Subsurface Imaging dedicated centres

Technical Staff
- 70% post graduate degrees
- 26% PhDs
Our perimeter

**OUR STRENGTHS**

**Remarkable data & technology**
Unique Earth data library, imaging, geoscience & digital technologies

**Outstanding people & performance**
Ingenuity, diversity and expertise driving innovation and exceeding expectations

**Resolute ESG commitments**
Enabling our clients to be more efficient, effective, responsible and sustainable

**THREE CORE BUSINESSES**

**Geoscience**
Established leader in subsurface imaging, geology and geoscience services

**Multi-client**
The industry’s most technically advanced seismic data and geologic studies in the world’s key locations

**Equipment**
Established leader in marine, land, ocean floor and downhole seismic equipment and gauges
Investing in growth opportunities

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NEW APPLICATIONS

Earth Data Library
Growing portfolio of digital products for natural resource and energy transition activities, backed by a unique taxonomy and data ecosystem

Energy Transition
Supporting industry transition with technology, data and expertise for CCS, geothermal and critical minerals

Monitoring & Observation
Structural health & earthworks monitoring solutions with advanced sensors and Earth observation and Environmental Sciences expertise

Digital Sciences
Data transformation, data science, AI, machine learning, CGG Cloud services and HPC expertise
Our expanding portfolio of services

**ENERGY TRANSITION**

- **Geothermal**
  Evaluate resource potential, optimize and monitor geothermal developments with greater subsurface insight

- **Minerals & Mining**
  Increase awareness at every stage of the mining life cycle from exploration studies to production and closure monitoring programs

- **CCS & Energy Storage**
  Expertise for screening, evaluating and monitoring sub-surface storage, and risks

**MONITORING & OBSERVATION**

- **Environmental Sciences**
  Improve awareness of local and global environmental changes using geoscience data, technology and analytics

- **Infrastructure & earthworks**
  Detailed and continuous situational awareness to respond to hazards and optimize preventative maintenance

**EARTH DATA**

- **Multi-Client Earth Data Library**
  Growing portfolio of digital GeoVerse products for natural resource and energy transition activities, backed by a unique taxonomy and data ecosystem

**DIGITAL**

- **Digital services & solutions**
  Our investments in data science, AI, machine learning, cloud services and HPC drive innovation. Data transformation delivered by our Data Hub experts.
Our Geoscience ecosystem

**Subsurface Imaging**
Unmatched expertise, advanced geoscience & digital algorithms and excellent service in every image

**Geology & Engineering**
Leading geological and reservoir services and consultancy for natural resource development

**Multiphysics**
Expert analysis and interpretation of multi-domain geophysical data for natural resources and environmental applications

**Energy Transition**
Applying our geoscience and digital expertise to Geothermal, CCUS, Critical Mineral and Environmental analysis & monitoring

**Earth Observation**
Intelligence from imagery for Energy, Mining, Engineering, Environment and Defense

**Digital Sciences**
Bespoke HPC & Cloud services, data transformation, machine learning and AI

**GeoTraining**
Bringing together the full breadth of CGG’s capabilities to provide comprehensive learning path programs
Advanced FWI algorithm providing superior image resolution

- Advanced FWI algorithm to invert velocity and image from field data in one-go

Step-change Image Resolution
- Drilling locations can be more accurately selected to avoid hazards and target reservoirs

High frequency FWI for the most accurate velocity and image
Our digital services & expertise

**Data Transformation**
Expert DataHub data transformation, classification and integration for analytics and interpretation

**Machine & Deep Learning**
Core AI Lab expertise for ML/DL applications across geoscience, Earth observation, environmental science and data transformation

**HPC Services**
Access to highly-optimized HPC resource & digital platform, and consulting services

**Cloud Services**
Secure and efficient access to our exceptional HPC resources for geoscience and beyond with CGG Cloud
Multi-Client Data

The most recent and advanced data in the world’s key basins and frontiers

- The highest quality seismic data library
- GeoVerse analytics-ready Earth data
- GeoSpec enhanced legacy data

The right data, in the right place at the right time
An evolving suite of seismic and Earth data products

Core Basins
- Gulf of Mexico, Brazil pre-salt, Onshore US, North Sea
- High-end 3D, OBN and reimaging for near-field exploration, reservoir development & production

Developing
- Australia, Africa, Equatorial Brazil, North West Europe & Barents Sea
- 3D and integrated geoscience studies

Energy Transition Studies
- Global Geothermal Resource Assessment
- Carbon Storage Screening, North Sea
- Paleo-salar Lithium study, South America

An expanding suite of regional and global GeoVerse Energy Transition resource studies
A successful strategy for multi-client footprint in mature basins

> 1.25 million km²

Leading coverage Brazil pre-salt with new acquisition

Reimaging projects in Gulf of Mexico generating new interest

Extensive contiguous datasets in North Sea featuring new OBN and dual azimuth coverage

Renewed interest in US Land and new high-quality datasets

GEOLOGY & SATELLITE
500 Geologic Studies
1,000 Petroleum system analyses Global hydrocarbon seep database

GEOSPEC - LEGACY SEISMIC
695,767 km² 3D worldwide
4,490,237 km 2D worldwide
Digital solutions enrich Multi-Client offering

**Versal**
Unified seismic data ecosystem offering 70% of the world’s multi-client seismic data
CGG | TGS | PGS

**GeoVerse**
A global integrated geological database ready for licensing

**GeoWells**
Advanced multi-discipline well data available in GOM (Mexico), Brazil pre-salt basins, and Norway

BUILDING AN ECOSYSTEM AND GLOBAL DIGITAL DATABASE FOR A NEW GENERATION OF MULTI-CLIENT PRODUCTS & SERVICES
Sercel designs and manufactures high-tech solutions for subsurface exploration. Capitalizing on its world-leading position in the seismic acquisition industry, Sercel also provides innovative solutions for structural monitoring, defense, earth monitoring and energy transition.

- Full range of onshore, offshore & downhole products
- Industry benchmark and market leader
- Unequalled product reliability & customer support

IMAGING THE DEPTHS
A diversified Sercel scope

**Oil & Gas**
Seismic solutions for imaging and monitoring the subsurface and production monitoring gauges

**Energy Transition**
Seismic solutions for subsurface imaging and monitoring of geothermal, CCS, critical minerals and offshore wind

**Structural Monitoring**
Sensors and monitoring solutions for infrastructure

**Earth Monitoring**
Microseismic earthquake monitoring solutions

**Defense**
Custom-engineered marine acoustics and cable solutions
Equipment operational highlights

Oil & Gas

- Strong Q3 2021 deliveries of land seismic systems
- Strong interest for Quietseis™ with significant orders in both onshore cable and nodal solutions
- First deliveries of the major GPR300 OBN node order on schedule
- Official launch of the TPS (Tuned Pulse Source) after successful in-sea tests in the Gulf of Mexico this summer
- Downhole memory gauge for production monitoring activity resilient

Structural Monitoring

- Earthworks monitoring: first commercial project for S-scan railtrack monitoring solution in France and tests in Russia
THANK YOU