

10TH COMMUNICATION ON PROGRESS 2017



Network France
WE SUPPORT



Passion for Geoscience

CEO LETTER OF COMMITMENT



CHIEF EXECUTIVE
OFFICER
Sophie Zurquiyah

“ Since I became CEO of CGG in April 2018, I have been very pleased to observe the full depth of our HSE commitment and performance.”

The severe industry downturn that CGG had been facing since mid-2014 continued throughout 2017. After a substantial industrial restructuring that considerably lowered our cost base and rebalanced activities toward less capital intensive businesses, we also successfully financial restructured, significantly reducing debt levels and aligning them with CGG’s current size and market conditions.

Despite difficult times, across the company, from executive management to field operations and subcontractors we have consistently focused on HSE and social responsibility without compromise. Since I became CEO of CGG in April 2018, I have been very pleased to observe the full depth of our HSE commitment and performance. While CGG protected its personnel, local communities and the environment, it also strengthened future generations to better address geoscience challenges.

Health and Safety started to be systematically managed in the early 1990’s, and with our continued commitment and culture we have included environmental protection, security and social responsibility in the same management system. Going forward, I intend to maintain our focus and continue to develop CGG’s deeply-rooted HSE and sustainability culture and commitment at all levels.

2017 marked the 10th anniversary of our United Nations Global Compact membership, and it is an honor to maintain CGG in this community of businesses that are committed to jointly advance anti-corruption, human rights and environmental protection.

CGG has been and will remain a responsible partner offering cutting-edge geoscience technologies and services that are fundamental to advancing United Nations Sustainable Development Goal 7: *Affordable and Clean Energy*. The following document briefly presents our activities prior to disclosing our sustainability approach and results.

Thank you and I welcome your feedback.



COMMUNICATION ON
PROGRESS

This is our **Communication on Progress** in implementing the principles of the **United Nations Global Compact** and supporting broader UN goals.

We welcome feedback on its contents.

This document serves as our 10th Communication on Progress. In it we report according to the “Advanced Level” of the United Nations Global Compact. Previous reports are available on www.cgg.com > Sustainability > UN Global Compact

CONTACTS

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PROFILE

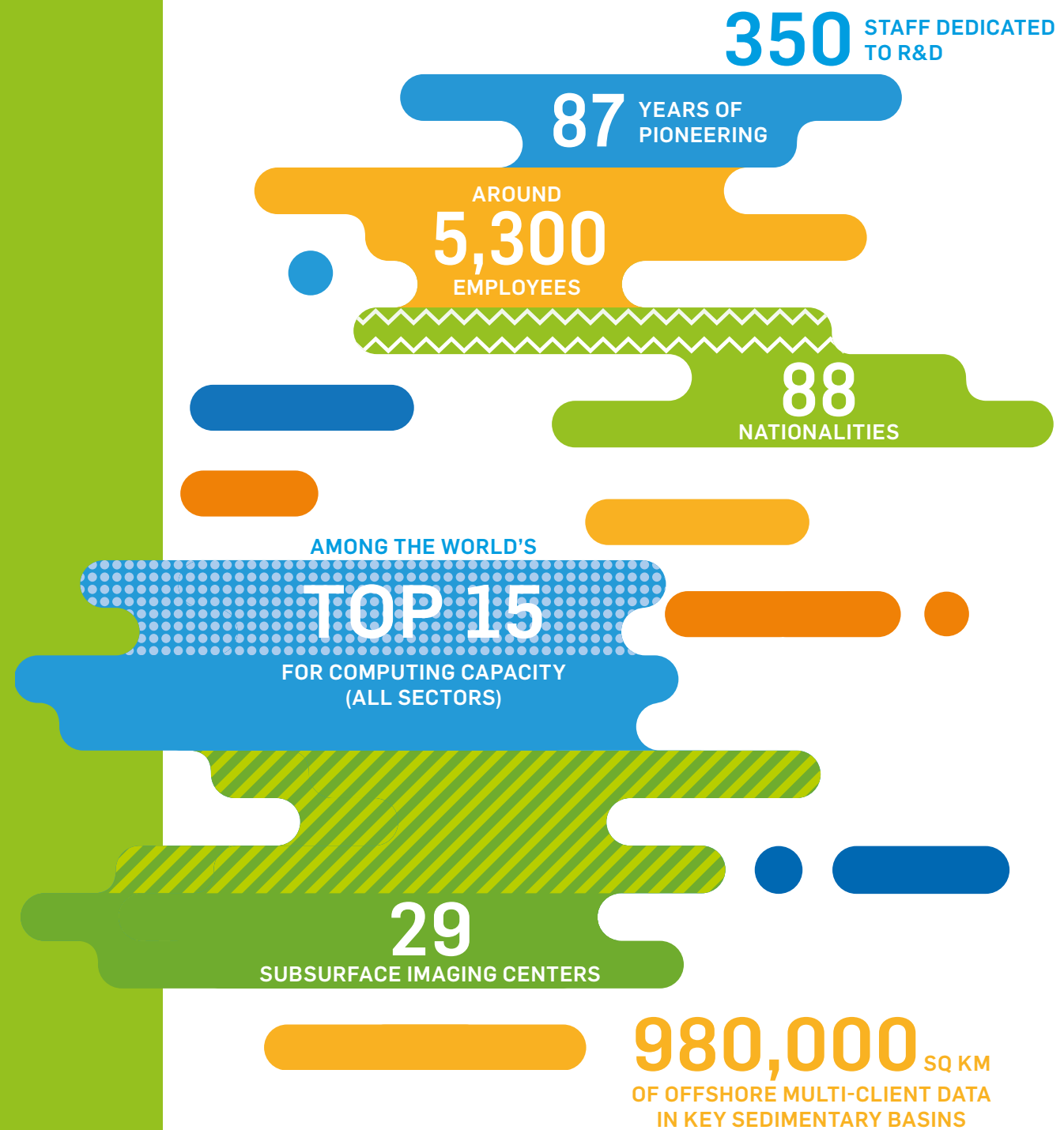
We deliver unique geoscience insight

CGG is a leader in cutting-edge geoscience. We have achieved leadership through a strong focus on innovation and a sustained commitment to delivering the best products and services in our industry.

We capitalize on our valuable multi-client studies, diverse consulting services and powerful software workflows to offer our clients integrated and customized solutions for every geologic setting.

By combining our extensive geological and seismic data with our unique expertise we deliver unrivalled geoscience insight to better support the E&P workflows of our clients.

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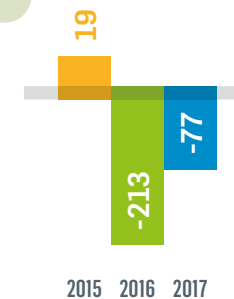
KEY FIGURES

CGG Group revenue in 2017 totaled 1,320 million dollars, up 10% over 2016 and after a decline over the last three years. Despite the industry downturn, our focus on major HSE risks has remained a top priority and is reflected in the Group's performance.

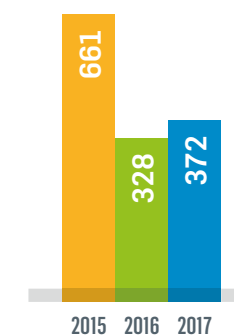
Promoting geoscience education and training is another CGG priority, reflected by our sustained investment in donations of imaging and interpretation software to universities around the world.



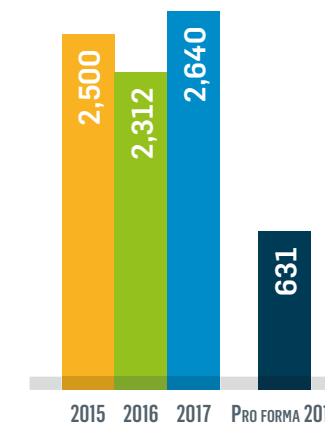
CONSOLIDATED OPERATING REVENUE
(million dollars)



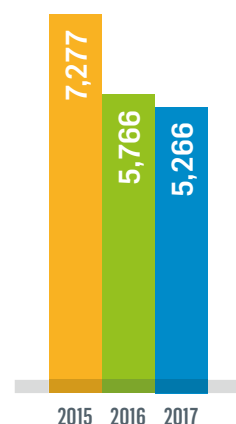
OPERATING INCOME*
(million dollars)
* Before non recurring charges



EBITDAS*
(million dollars)
* Before non recurring charges



NET DEBT
(million dollars)



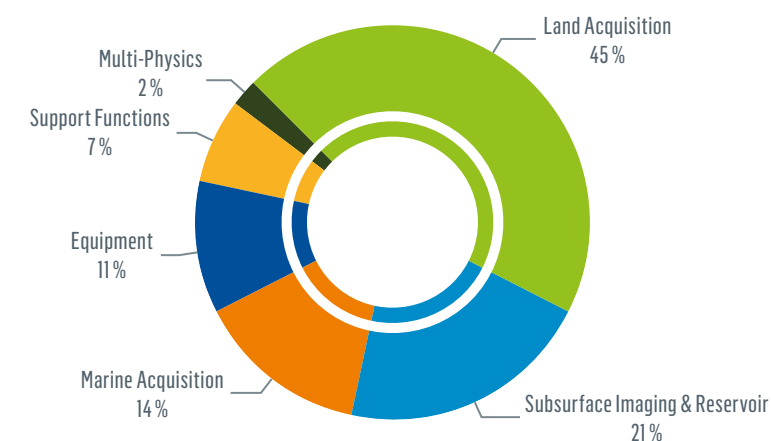
CGG EMPLOYEES



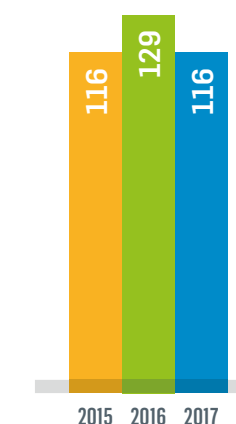
FATALITIES
(employees and subcontractors)



SIGNIFICANT ENVIRONMENTAL INCIDENTS
(including residual hydrocarbon spills exceeding 0.2 m³)



EXPOSURE HOURS
(employees and subcontractors: a total of 24 million)



NUMBER OF UNIVERSITIES
benefiting from CGG's geosoftware donation program

Equipment

Established leader in geophysical equipment.

Founded over 50 years ago, Sercel designs, manufactures and supports a full range of onshore, offshore and downhole products.

Data Acquisition

High-end geophysical data acquisition services.

Trusted by our clients to acquire the best data with our marine, land and airborne operations.

Consulting

Recognized leader in geoscience consulting services and studies.

We support our clients for all their geochemical, geospatial, sedimentological, stratigraphic, geomechanical, reservoir engineering, petroleum economics and data management needs.

Subsurface Imaging

Exceptional people, remarkable technology and outstanding service.

Industry-recognized technical leaders in advanced imaging, we exceed our clients' expectations to resolve their challenges.

Our Offer

Software

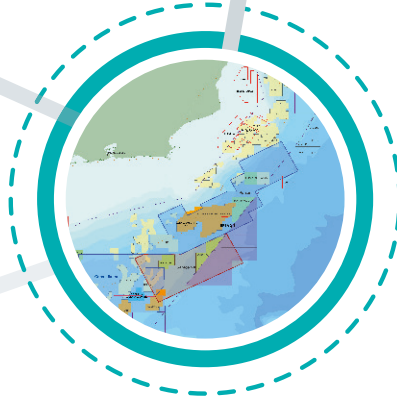
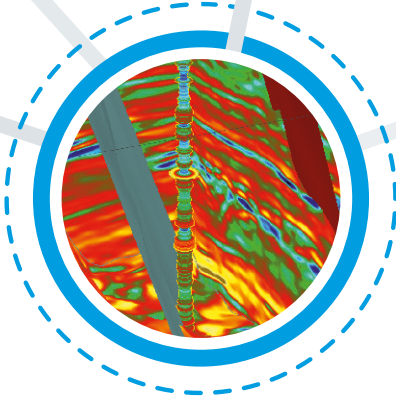
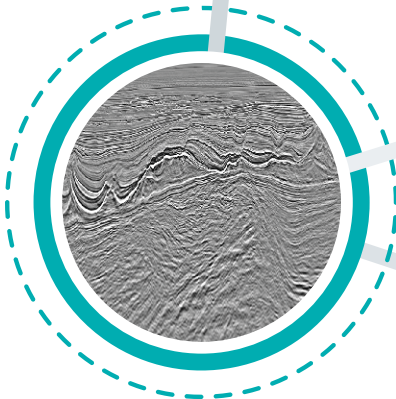
A unique portfolio for reducing risks and optimizing production.

Our powerful reservoir characterization workflows span all disciplines and stages in the E&P cycle.

Multi-Client Data

The right data in the right place, at the right time.

An extensive multi-client library offering the industry's most technically advanced seismic images and rich geological and geospatial data in the world's key locations.



TECHNOLOGIES



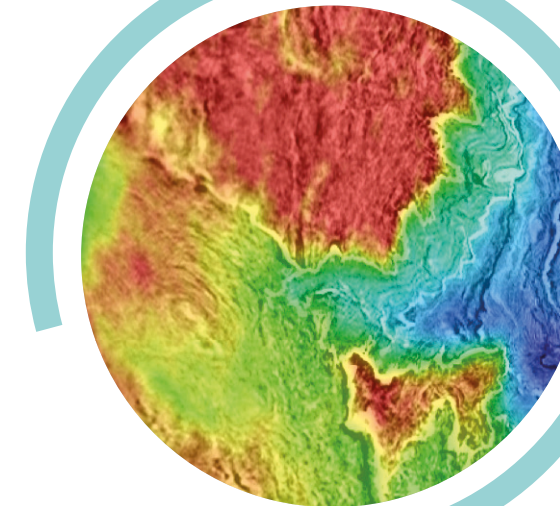
TOPSEIS

TopSeis™ is the latest outcome of eight years of collaboration between Lundin and CGG. Its dual-vessel acquisition design places CGG's broadband source over a customized receiver spread to provide valuable zero-offset and near-offset coverage that is missing from conventional 3D towed-streamer seismic. The inaugural TopSeis survey in 2017 was commissioned by Lundin in the Barents Sea to better image a complex carbonate reservoir located at depths of between 400 to 2000 m below the seabed.



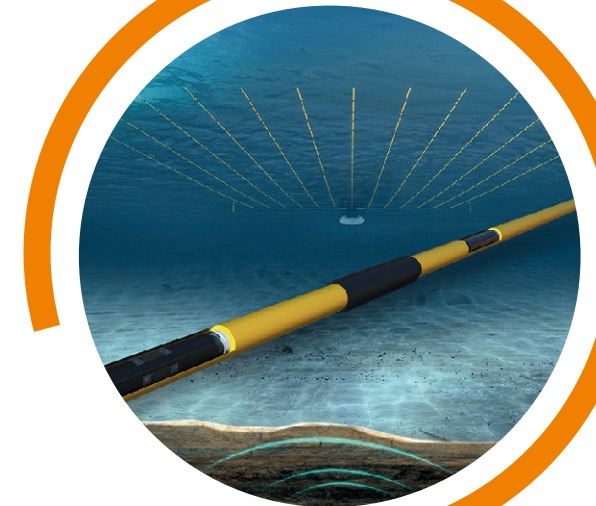
AGG

CGG's Falcon® Airborne Gravity Gradiometry technology is specifically designed to deal with the rigors of high-resolution data collection in a dynamic airborne environment and is the only AGG system to be used commercially in a helicopter. Continuing its history of innovation CGG's FalconPlus system has less than half the noise content of any competing system, accessing large areas of land quickly, safely, and efficiently to help make exploration decisions with confidence.



IMAGING TECHNOLOGIES

Many areas across the world feature complex geological features which challenge seismic imaging. These include near-surface features such as unconsolidated channels, shallow gas anomalies and permafrost as well as deeper features such as salt carapace, volcanic intrusions and complex salt bodies. Full Waveform Inversion (FWI) is well suited to handling these challenges. It has evolved rapidly from providing shallow high-resolution velocity models using refracted seismic waves only, to incorporating seismic reflection information to enhance deep velocity model resolution.



SENTINEL HR

Sercel's Sentinel® HR is the latest member of its well-established solid streamer family. This high-resolution streamer has been developed with a close channel separation of 3.125 m to meet the specific imaging needs of a wide range of shallow-target market applications. These include oceanology, civil engineering and reservoir characterization, as well as high-resolution 3D (HR3D) seismic surveys for detailed mapping of geological features.

2017 HSE & SOCIAL RESPONSIBILITY HIGHLIGHTS

40
LOCATIONS
WORLDWIDE

USA



Four Sercel Houston manufacturing sites were consolidated into one. During this major decommissioning and commissioning effort there was an ongoing commitment to safety and subcontractor management. Significant environmental gains were made by eliminating logistical requirements, reducing waste and improving the site's energy efficiency (LED lighting, Energy Star™ air conditioning).

GULF OF MEXICO



CGG Marine acquired a wide-azimuth survey in the Gulf of Mexico, using Sercel's passive acoustic monitoring system, QuietSea. The survey was conducted with a fleet of five survey vessels over a 200-day period. Each vessel was equipped with QuietSea to help CGG and its clients better detect and protect marine mammal life.

BRAZIL



In Barreirinhas, a compensation plan was agreed upon between representatives of local fishing communities, the environmental authority and CGG to promote the safety of the fishing community operating 90 traditional sailing

fishing vessels in proximity to a marine acquisition project. A local partner manufactured radar deflectors which were installed by the fishermen on their sailing vessels prior to the beginning of the seismic survey.

2017 HSE & SOCIAL RESPONSIBILITY HIGHLIGHTS

40

LOCATIONS
WORLDWIDE

Festivals of Learning were held in 5 CGG centers. Employees had the opportunity to meet their learning & development providers, and learn more about apprenticeship opportunities, technical and HSE training courses,

and other management and soft skills trainings provided by CGG University (which is constantly developing new programs on topics such as giving feedback and promoting resilience and wellbeing).



AUSTRALIA, FRANCE, SINGAPORE & UK

CGG GeoSoftware has donated its Jason®, PowerLog® and InsightEarth® software suites, encompassing all aspects of seismic reservoir characterization, to the Geoscience and Technology Institute of China University of Petroleum. The donation will enhance scientific research and expand students' theoretical and practical knowledge of quantitative reservoir characterization and inversion techniques.



CHINA



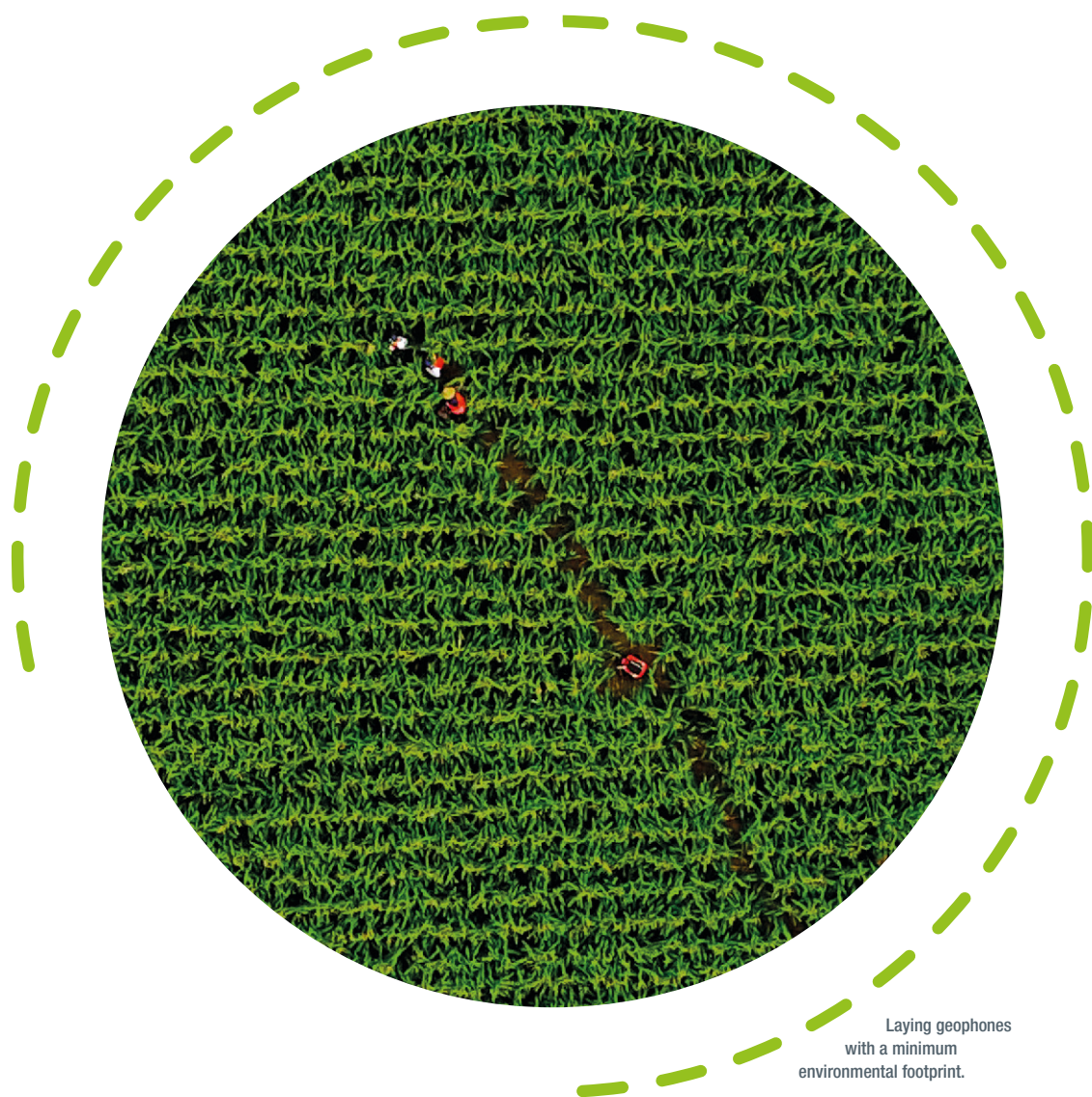
CGG joined the Ghost Net Initiative which is co-managed by the International Association of Geophysical Contractors (IAGC) and Healthy Seas. This initiative reports on the efforts Geophysical Contractors make to recover and responsibly dispose of fishing gear lost at sea. Mozambique was the first country where CGG consolidated its reporting of the fishing equipment it had recovered.

MOZAMBIQUE



APAC

CGG teams in Australia, Singapore, Indonesia, Malaysia and India organized a series of events to support both local communities and the environment during Earth Day: replanting mangroves, visiting the Free Tree Society, collecting beach waste, holding upcycling contests and sensitization workshops, distributing personalized mugs. This coordinated Asia-Pacific initiative showcasing a high level of employee engagement won a CGG Care+Protect Award in the Sustainable Development category.



Laying geophones
with a minimum
environmental footprint.

2017 Sustainable Development Report

CGG's major contribution to sustainable development is based on providing, over the long-term, geoscience products and services, which enable better knowledge of, better access to and more efficient production of energy resources.

This business model is applied respecting employees, local communities and the environment.

CGG has been a member of the UN Global Compact since 2007 and every year its Chief Executive Officer reaffirms its commitment to respecting the environment and human rights, to promoting international labor standards and to combating all forms of corruption.

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The content of this report is a direct English translation of the French version of Chapter 2 ('Sustainable Development') of the Document de Référence filed with the Autorité des Marchés Financiers (AMF) on 29 March 2018 and available on our company website www.cgg.com.

1

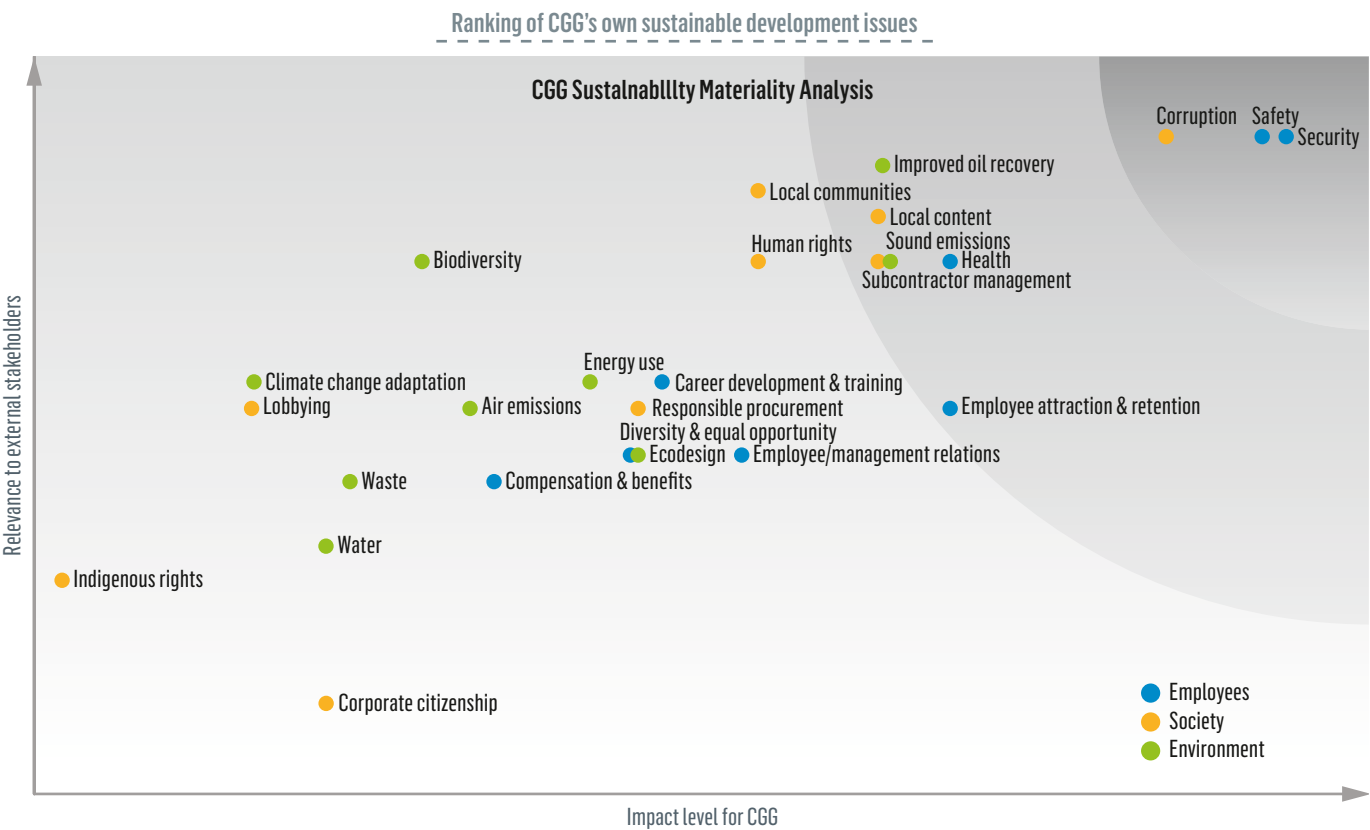
Strategy and governance for sustainable development

1.1. RANKING THE ISSUES RELATING TO SUSTAINABLE DEVELOPMENT: A REGULAR EXERCISE CARRIED OUT WITH THE STAKEHOLDERS

Dialogue with the stakeholders is at the heart of CGG's sustainable development approach. Acknowledging the interest and contribution of its stakeholders in CGG's sustainable development, the Group maintains a continuous dialogue with these stakeholders and mobilizes them on joint actions.

Every three years, the Sustainable Development department organizes an extensive consultation involving CGG Management, a panel of employees, clients, investors, NGO and the trade association in order to identify the most critical sustainable development themes for the Group. These priority issues are highlighted in the dark grey

and light grey sections of the graph below. CGG's internal perceptions are positioned along the x-axis in ascending order of importance while the weighting of the issues and therefore the expectations of external stakeholders are shown along the y-axis in the same order. The graph below shows the results for the consultation undertaken at the end of 2015. An internal review conducted in 2017 ensured that the results were still pertinent. Safety, security and the fight against corruption stand out as top priorities. They are followed by environmental issues (optimization of the recovery of natural resources, sound emissions), social issues (local content, respect for local communities and human rights, management of subcontractors), and problems related to attracting and retaining staff and finally the protection of employee health. This materiality study inspires the objectives and actions to be undertaken between 2016 and 2018.



1.2. GOVERNANCE STRUCTURES FOR CGG'S SUSTAINABLE DEVELOPMENT

1.2.1. Promoting an ethical culture and conduct

Values and rigorous ethical standards are foundations of development for the CGG Group. They require that we comply with laws and regulations and the principles of our Business Code of Conduct with regard to our clients, shareholders, employees, and partners. The Business Code of Conduct, available in nine languages within the Group and on the site www.cgg.com, sets out the rules and expected to assure that the Group conducts its business with integrity.

The CGG Ethics Committee publishes and communicates the Business Code of Conduct, ensuring the recommendations concerning ethics are widely distributed.

In 2017, the Ethics Committee initiated a modernization of its Business Code of Conduct.

The Ethics Committee is notified of any issues related to the Business Code of Conduct, in particular through the whistleblowing procedure. This procedure, implemented in 2009, complies with the specifications of the Sarbanes-Oxley Act of 31 July 2002 (Article 301-4), the provisions of the Privacy Shield, and the requirements of the French Data Protection Authority ("Commission nationale informatique et libertés" - CNIL). Employees are regularly reminded of its existence in every communication regarding ethics. The telephone solution originally in place has been replaced by a web solution.

The composition of the Ethics Committee was reviewed in September, 2017. The Ethics Committee is now composed of 6 members. It meets regularly, several times a year. It presents its annual report to the Chief Executive Officer and to the Audit Committee of the Board of Directors.

In 2017, the Ethics Committee was called on fewer occasions than in 2016, which can be explained by the extensive restructuring plan conducted within the Group. However, the cases referred to the Committee were substantially similar in nature to those in previous years.

1.2.2. Anti-corruption program

CGG's sustainable development materiality study underlined the significant risk of corruption inherent to our sector of activity. A robust Compliance Program is an important focus for the CGG management team; it demonstrates the drive to maintain an ongoing effort against corruption, building on program development the last years and assuring that these efforts continue into the future.

CGG expanded its anti-corruption program by the means of procedures and control processes (e.g., due diligence), particularly in the context of the management of its partners e.g., Joint Ventures, and service providers. In this context, the Compliance Department continued its close collaboration with the Risk Management Department, the Purchasing & Supply Chain Department and Internal Control. In 2017, a closer collaboration was developed between the Compliance Department and the Sustainable Development Department.

CGG closely followed the entry into force of Sapin II law and its Anti-Corruption provisions as well as the resulting obligations regarding the Compliance program implemented at CGG.

In parallel, CGG continues its various activities in regard to training and communication. An Anti-Corruption E-learning platform is being prepared.

1.2.3. Governance of sustainable development issues

Responsibility for all aspects of Sustainable Development (Health, Safety, Security, Environment and Social Responsibility) and the development of human capital rests with Management. For this, Management draws on HSE, Social Responsibility and Human Resources professionals in Business Lines and Group Functions, to support their management systems.

The Group's Executive Management plays a vital role in defining the terms and conditions under which CGG can develop its business while protecting its employees, communities neighboring its installations and the environment. CGG's leadership in sustainable development is established from the top through the formulation of specific expectations on HSE performance, regular communication, monitoring of performance throughout the year and implementation of any required changes following periodic formal reviews.

The Sustainable Development Committee supports Management by defining the guidelines for the Sustainable Development program. Three times a year, this Committee reports on the progress achieved to the Corporate Committee (C-Com) and to the HSE and Sustainable Development Committee of the Board of Directors. Regular reviews are also carried out by Business Lines, the Corporate Committee and the Sustainable Development Committee to check that the system is operating correctly. These reviews make it possible to identify areas for improvement and corrective measures to be applied, and ensure that suitable resources are made available to achieve the expected results. They also allow the development and the application of measures to ensure conformity with statutory requirements.

2

Health, safety, security, environment and social responsibility

2.1. MATERIAL ISSUES ON HEALTH, SAFETY, SECURITY, ENVIRONMENT AND SOCIAL RESPONSIBILITY (“HSE & SOCIAL RESPONSIBILITY”)

CGG’s top sustainable development priority consists of preventing workplace accidents and occupational diseases among its employees and sub-contractors in its areas of prevailing influence. Historically, the Group’s main risk activities have been road transport, helicopter operations, tree felling in forests, and the crossing of lakes and rivers. CGG is also committed to providing a healthy work environment with no addictive substances in the workplace.

The security of its employees is another absolute priority for CGG. The Group is exposed to threats of burglary, assault, piracy and terrorism, which it counters through a system based on prevention and dissuasion.

Through its seismic data acquisition activities, CGG covers considerable distances each year in varied and often isolated environments, sometimes operating in fragile ecosystems. CGG seeks, therefore, to develop methods and equipment enabling its customers to prevent or reduce their environmental footprint, whether in the acquisition of geophysical data or in the phase of hydrocarbon production. In particular, CGG seeks to contribute to better knowledge of the potential impact of its sound emissions on the marine environment so as to adapt where necessary the protection measures used.

Finally, with regards to Social Responsibility, CGG focuses on the fight against corruption in all its forms (described in Section 2.1.2.2. of this chapter), respect for and economic development of local communities that host our sites and activities and respect for human rights and fundamental rights at work.

2.2. POLICIES APPLIED TO HEALTH, SAFETY, SECURITY, ENVIRONMENT AND SOCIAL RESPONSIBILITY (“HSE & SOCIAL RESPONSIBILITY”) ISSUES

2.2.1. Policies and objectives

CGG applies an HSE & Social Responsibility program based on the conviction that all accidents can be prevented.

CGG’s HSE & Social Responsibility expectations are established by the Chief Executive Officer and are included in HSE, Sustainable Development, Health and Well-being, Security and Environment policies. Every employee has access to these policies, either via the Internet or in displays at the Group’s sites. These policies are supported by three-year objectives set by the Chief Executive Officer and incorporated in the “*Care+Protect*” program.

Group objectives defined by the Management applying to the areas of health, safety, security, the environment and social responsibility target more specifically the commitment of management bodies and their visibility on these topics, risk management, subcontracting management, skills and training. Each Business Line adopts these objectives and specifies them in annual programs so as to best respond to the issues characterizing their activity. In this way, every level of the organization is clearly informed of the expected results and called on to help achieve them. Consequently, these Group objectives also become personal goals for the management team.

2.2.2. The operational management system for health, safety, security, the environment and social responsibility (HSE-OMS)

CGG’s structured approach to Health, Safety, Security, Environment and Social Responsibility issues is based on a management system addressing these topics (more commonly known as *HSE Operating Management System* – HSE-OMS). HSE-OMS applies to all of the Group’s activities areas across many domains: health, safety and security of employees and contractors working within the sphere of influence of CGG projects, as well as environmental protection and social responsibility in all its projects and facilities.

Risk management is at the core of our HSE-OMS. The Group maintains a structured approach aimed at identifying, assessing and controlling risks, based on a common group-wide international methodology and model for risk management. Risks are assessed for each project or permanent installation. They incorporate the history of incidents recorded in the Group’s database and those in the database shared with the *International Association of Geophysical Contractors* (IAGC), which covers several decades of incidents.

Through systematic risk assessments, and in particular the targeted identification of high-risk activities, we determine the necessary controls to manage safety risks. These controls include procedures, work instructions, specific risk management training, site meetings and daily on-the-ground HSE inspections, supplemented by cross-department inspections. The latter are carried out by a person from outside the entity inspected. Exercises carried out periodically at the installation and project level mean that the effectiveness of the emergency response plans can also be checked. At the site and mission level, the line management carries out its own inspections and observations. An annual audit plan is drawn up to check that the policies and key processes of the HSE-OMS are implemented and respected in all its activities. The environment of controls and monitoring is coupled with a culture of individual responsibility.

Individual risk awareness and personal responsibility are essential elements of our *HSE-OMS*. A behavioral safety program entitled “Rules to Live By” and “Things We All Must Know” has been in force since 2011. This program focuses on the Group’s main safety risks, is published in multiple languages across all activities. These rules are supported by visible posting on the workplace and clear instructions, particularly concerning consequence management.

Good management of HSE and social responsibility risks requires transparent reporting and fast and efficient communication. Comprehensive notification of all incidents, near-misses and hazards is crucial to obtain good results. Our information system, PRISM, has been developed in-house for this purpose. PRISM is an application that allows HSE, Quality and Social Responsibility files to be shared by all CGG sites and operational units. It also allows analyses to be produced, performance to be monitored – including risk assessment and management – and the action points to be managed. All of CGG’s employees have access to PRISM. Incidents are assessed according to their actual and potential severity. A subscription system allows for immediate notification to the appropriate level of management, including the highest level for incidents with high potential. In 2017, we deployed the new generation of PRISM, strengthening the risk management tools on all of the HSW-OMS areas. The PRISM cover rate for our activities increased from 90% to 100% of the hours of exposure of the Group. The final element in the Group’s management system is management review; management reviews are held at Business Lines, Executive Committee and the Board HSE and Sustainable Development Committee. They ensure the system’s proper operation, identify areas for improvement and

the corrective measures to be applied, and finally help ensure that suitable resources are in place.

Health

CGG implements occupational health programs related to public health and well-being at work, aimed at maintaining quality of life at work through medical fitness for work, and at preventing occupational diseases. The management of risks and impacts on health is systematically adapted to the local environment. Therefore, it takes into account the issues specific to very isolated areas and adapts the means of protection, rescue and assistance for the staff exposed. This is especially the case for land acquisition projects. In 2017, operating in global region where health risks are high (Tanzania-Uganda: Cholera and tsetse fly in Kenya; Papua-New Guinea: malaria or working at high altitude), CGG has been adapting resources for prevention and emergency response. In addition, information to travelers from different sources was reviewed with a new format to better attract the attention of travelers to the main risks or health alerts in force in the destination countries, drawing them to the necessary preventive care if applicable.

Safety

Our risk analyses and prevention programs are directed first and foremost at high-risk activities (for example, road transport and offshore helicopter transfers of teams). In 2017, each Business Line implemented a specific prevention program: Equipment, for example, uses a program for better control of the load weights to avoid or limit manual handling, from purchasing through all of the production cycles.

Environment

CGG implements environmental plans in all its Business Lines. These plans are aimed at eliminating, or otherwise, reducing the impact of its activities on the soil, water, fauna, flora and atmosphere. Particular attention is paid to the effect of sound emissions from acoustic sources of seismic marine operations on marine fauna. The Equipment Business Line follows an eco-design chart that allows new generations of geophysical products to reduce their environmental footprint over their life cycle. The range of geoscience services offered by CGG to its clients also allows them to reduce their own environmental footprint. This is what the materiality study presented in 2.1.1 identifies as “Improved Oil Recovery”.

Security
CGG has implemented a security intelligence and monitoring system to identify and assess threats in areas prone to maritime piracy and potentially unstable areas onshore. Projects in areas at risk are reviewed at the highest level. These reviews are supported by security experts. Local security plans, linked to projects, are developed and implemented before operations start. All staff also receive regular security information concerning the countries where they operate.

Social Responsibility
CGG is committed to proactively developing and maintaining harmonious relationships with the local communities living close to its permanent centers and seismic acquisition projects. In order to contribute positively to the socio-economic development of these communities, CGG seeks whenever possible to source from domestic suppliers and to hire and train staff native to the country of activity. CGG signs many cooperation agreements around the world with local universities which provide for the free of charge education licenses for our reservoir characterization and seismic data processing software. This proximity established with the research centers facilitates the recruitment of qualified personnel close to our operating centers. As stipulated on our Sustainable Development policy and our policy to exclude child labor, CGG undertakes to operate in the 38 countries where it is present in accordance with the Universal Declaration of Human Rights, the ILO Declaration on Fundamental Principles and Rights at Work and the United Nations Convention against Corruption. This commitment is also reflected in our purchasing policy, notably through a suppliers' code of conduct setting out the minimum social and environmental standards expected of our suppliers.

2.2.3. Promoting excellence and innovation in HSE & Social Responsibility

Seismic acquisition projects and the Equipment Business Line implement internal recognition schemes rewarding proactivity with regard to HSE. The quality and quantity of notifications of dangers and near-accidents reported at the project level are therefore generally linked to a system of material rewards and formal recognition by the local management.

At Group level, since 2014, CGG has also organized the annual Care+Protect reward program. The prizes reward CGG teams that have achieved HSE or sustainable development excellence through technological development, innovative practices, or as the results of an original initiative.

CGG continues to play an active role in the HSE Committee of the *International Association of Geophysical Contractors* (IAGC) and participates in a number of working groups organized by the *International Oil and Gas Producers* (IOGP). These committees

facilitate the sharing of lessons learned from the management of major near-misses or accidents, the dissemination of best practices, and the review and improvements to HSE standards in the exploration and production industry. The same spirit of exchange of best practices also inspires CGG's representatives regarding sustainable development within the Advanced Clubs and Human Rights of the French arm of the United Nations Global Compact.

2.3. MAIN RESULTS ACHIEVED FOR HEALTH, SAFETY, SECURITY, THE ENVIRONMENT AND SOCIAL RESPONSIBILITY (“HSE & SOCIAL RESPONSIBILITY”)

The key performance indicators related to material HSE & Social Responsibility themes, as well as indicators concerning some non-material themes, are listed in Section 4, HSE & Social Responsibility Indicators of this reference document.

2.3.1. Health

Frequency rates for occupational diseases resulting in lost time are improving, and the severity rate is falling.

The following table, based on IOGP rules, covers occupational diseases (OD) excluding the Equipment Business Line.

	OD with days lost frequency rate (LTIF)	Recordable OD frequency rate (TRCF)	Severity rate Number of lost days (× 1,000/h)	Hours (millions)
2015	0.08	0.33	0.003	47.8
2016	0.09	0.14	0.001	21.6*
2017	0.05	0.23	0.0005	21.4
LTIF = (Fatalities+ Lost Time Incidents) × 1,000,000/hours. TRCF = (Fatalities+Lost Time Incidents+Restricted Work Cases+ Medical Treatment Cases) × 1,000,000/hours.				

2.3.2. Safety

CGG measures safety performance by the frequency of Lost Time Injuries. These indicators include permanent and seasonal Group employees and subcontracted staff working under our authority.

	Fatal accident rate (FAR)	Lost time injury frequency rate (LTIF)	Recorded accidents frequency rate (TRCF)	Severity rate	Cases of total permanent or partial disability	Hours (millions)
2015	1.9	0.29	1.38	0.003	1	52.1
2016	0	0.25	1.40	0.004	0	24.3*
2017	0	0.5	1.9	0.019	0	24
LTIF = (Fatalities + Lost Time Incidents) × 1,000,000/hours. TRCF = (Fatalities + Lost Time Incidents + Restricted Work Cases + Medical Treatment Cases) × 1,000,000/hours						

(*) In 2016, CGG changed the convention for calculating hours, aiming for greater consistency among our different Business Lines but also with our industry associations (IOGP and IAGC). Following the consolidation, the hours worked and not the hours exposed are taken into account (as at offshore sites and camps). The total of hours for 2016 is thus lower than it would have been under 2015 convention.

The Group recorded a rise in the frequency rate of Lost Time Injury and in the total number of cases registered. The frequency of HSE incidents with high potential severity (potentially fatal incidents including near-accidents), which is tracked worldwide, also rose.

CGG has continued its transport program by focusing on driving skills and driver assessments. CGG uses *In Vehicle Monitoring Systems* (IVMS), *Speed Limiting Devices* (SLD), *Roll-over Protection*, and there are always trainers in defensive driving on our crews. Our *Motor Vehicle Crash* (MVC) rate improved significantly in 2017.

	MVC rate	Driven kilometers
2015	0.44	22 500 000
2016	0.74	18 900 000
2017	0.31	16,100,000

2.3.3. Security

In terms of security, maritime piracy has experienced a regain in the Indian Ocean, in the Gulf of Aden and near Somalia. A higher level continued in the Gulf of Guinea, especially near Nigeria and neighboring countries, and to a lesser degree in Southeast Asia, especially in the Sulu Sea. Furthermore, the return of terrorists from the combat zones of Iraq, Syria and Libya has contributed to the increase in the jihadist threat in North Africa, in the subsahelian area and the Middle East.

2.3.4. Environment

Reduction of the environmental footprint in the value chain

Seismic imaging is essential in exploration, to correctly identify the location of natural resources reservoirs. The ratio of producing wells to dry wells has thus improved steadily since seismic imaging has been fully involved in the drilling decision-making process. This avoids drilling and harm to environments without any energy benefit ensuing.

In 2017, the Land Acquisition Business Line developed a commercial offer called LiteSeis, which allows acquisition methods to quickly acquire the subsoil data in urban, agricultural or difficult to access areas, while maintaining as small an environmental footprint as possible. This method of acquisition responds well to the requirements for the knowledge of the geothermal subsoil or store of gas in an urban environment. For a mission in a mountainous region, it could benefit from the new product sold by the Equipment Products Business Line in 2017, the wireless WTU node. The WTU

uses four times less energy than the previous generation of wireless nodes. This significantly increases its automatic data recording and allows for a drastic reduction in the handling and transport of equipment, thereby hand in hand reducing the safety risk, the environmental footprint and the potential for damage to the local communities.

The geosciences services of CGG, such as seismic interpretation, petrophysical analysis and the analysis of the rock samples take place at the exploration and at the production stages of hydrocarbons, not only allowing clients to properly place their wells, but also to optimize their output.

In 2017, the land and marine acquisition activities allowed the teams to image almost 108,000 square kilometers, a small fraction (less than .001%) of which is located in protected sites. Airborne acquisition flew over an area equivalent to the United Kingdom. CGG did not record any significant environmental incident.

Sound emissions and the marine environment

Sound emissions emitted by seismic sources can, in certain operating conditions, disturb the animal world, particularly marine mammals in which hearing is the most developed sense. This is why CGG applies measures for the prevention and mitigation of the risks of sound impact. These measures ensure that the seismic sources are systematically activated in a gradual manner, assuring beforehand and during the progressive start-up that no animal is within a radius of at least 500 meters around these sources. The perimeter of security and the monitoring methods used (visual observation and acoustic detection) vary according to the risk evaluation, closely tied to the ecological sensitivity of the relevant area of acquisition.

The implementation of the preventative measures described above reduce the risk of inflicting hearing damage to insignificant levels. CGG is also concerned about the effects of acoustic disturbance on the life cycle of cetaceans and fish, an area where scientific knowledge is still incomplete. The Exploration and Production industry's ambitious joint research program “Sound and Marine Life”, which, since 2006, has funded US\$55 million in research, continually provides answers to the various questions regarding sonar impact. Since 2016, CGG has been part of the technical management committee monitoring the progress of about twenty projects. The results obtained by the various research projects are intended to be shared with the greatest number of people. Published on the site www.soundandmarinelife.org, they are also published in scientific reviews and presented at scientific conferences such as *Oceanoise* in May, 2017.

Regarding operations for monitoring cetaceans, in 2017, CGG continued to equip the seismic fleet with QuietSea, Passive Acoustic Monitoring - PAM - developed by the Equipment Business Line. QuietSea has also been adapted to meet the specific needs of the

identification of marine mammals from source boats and 2D data acquisition methods. QuietSea was thus able to demonstrate its detection abilities in the deep waters of the Gulf of Mexico, Surinam, Mauritania and Mozambique. The large scale deployment of this new automated technology makes detection of cetaceans possible at any time and in any weather. Because of the large number of sensors in the network, the quality of the detection and the precision of the localization of marine mammals have been greatly improved by this technology. This makes the risk reduction procedures more reliable; procedures such as soft-starts of the sources or stopping them in case of the presence of marine mammals.

2.3.5. Social Responsibility

Interactions with local communities

CGG is committed to developing and maintaining mutually beneficial relationships with the local communities living close to its seismic acquisition projects, factories and permanent offices.

Regarding seismic acquisition, the client for which CGG is performing a service generally bears the responsibility and management of relationships with local stakeholders. However, it does happen that the client contractually delegates this responsibility to CGG. In addition, CGG is entirely responsible for the management of relations with local communities when the company acquires data in Multi-Client.

In 2017, CGG directly interacted with local communities in Brazil, Mozambique, Norway and Ireland (marine acquisition) and Namibia, Tanzania, Uganda, Algeria, Egypt, Saudi Arabia and Germany (land acquisition). No significant detrimental impacts on the communities have been noted or reported.

Community interactions follow the general recommendations of the “Management Plan for Community Relations” published by the Group. This plan is accompanied by four practical guides (Management of Fishing Activities/Obtaining Permits and Access to Land/Management of Temporary Local Personnel in Land Acquisition Missions/Implementation of a Sustainable Development Project).

Since 2016, important land acquisition projects have systematically used a social initiative to benefit the local communities. In marine acquisition, a large scale social initiative was begun in 2017 in connection with the Wide Azimuth acquisition project, which mobilized five ships in the deep Mexican waters for the account of PEMEX. CGG has committed itself to implementing a series of social projects that have been preselected by PEMEX’s Sustainable Development Department for up to 2% of the value of the acquisition contract. The first project completed in 2017 had a landscape architecture firm working on a study to define the contours and specifics of model recreational parks which will be created in the country. CGG has assumed responsibility for the construction of such a park, with a surface area of 50,000 m2 in the city of Coatzacoalcos.

The Multi-Client New Ventures Business Line (MCNV) commissioning the acquisition of marine data also endeavors to implement social responsibility projects in the countries in which it is operating.

The permanent sites of CGG are themselves encouraged by Management to get their employees involved in local sustainable development initiatives that meet the specific needs of the local communities in terms of health, security, the environment, education or community service. The type of activities varies greatly among the sites, but the most common practice consists of organizing periodic blood drives, which allow the employees to donate their blood during the work day. In 2017, 82 initiatives took place in 20 countries.

Local employment and content

Maintaining long-term relationships with national partners is key to CGG’s sustainable development approach. The various partnerships created by the Group as Joint Ventures are witness to this, whether it is in Saudi Arabia with ARGAS, with 51 years of experience in land acquisition, in China, where Sercel Jungfeng has been producing geophysical equipment for 14 years, or in Vietnam, working with PTSC in marine acquisition for 6 years.

The Group’s permanent sites primarily employ national employees. Thus, of the total workforce of the CGG Group (excluding field staff), 80% of employees work in a country in which they hold citizenship. Moreover, among the CGG sites employing more than 50 staff, 72% of managers hold the nationality of the country where they work.

Regarding short-term employment for Land Acquisition, locally hired staff and continuation of employment over several successive projects is favored whenever possible. In 2017, CGG carried out land acquisition operations, either directly or through its participation in the Argas joint venture, in five non-OECD countries (Papua-New Guinea, Namibia, Algeria, Egypt and Saudi Arabia), for a total of 469,000 workdays by employees who are nationals from those same countries.

To meet our local recruitment needs closest to our imaging centers, CGG GeoSoftware is engaged in a University partnership program that encourages innovative approaches to education in the geosciences. With almost 500 million US dollars (estimated market value), in license donations or renewals recorded in 2017, this allows for the training of students on advanced industrial software and to develop new reservoir characterization techniques on real data. This program is international in scope: in 2017, CGG GeoSoftware was partnering with 116 universities throughout the world, including 32 located in countries considered to be developing (non-OECD countries). In most of these countries, software donations are very often accompanied by logistical help and donations of computer equipment. GeoSoftware has identified forty scientific articles published in 2017 by researchers and academics who benefited from free software licenses.

Human rights

Since 2013 CGG has been a “GC Advanced” member of the Global Compact, underlining its advanced level of implementation and higher degree of engagement concerning the issues of human rights and labor rights. With a view to continuous improvement, our report *Communication on Progress* has been subject to peer review by members of the GC Advanced club for the last two years.

In 2017, CGG subscribed to the database Social Hotspots, which allows it to understand in more detail the country risk of violations of fundamental rights at work and to perform the required due diligence before beginning an acquisition project. The HSE & Social Responsibility audits carried out in CGG’s various Business Lines verify the application of the fundamental rights at work, such as eliminating forced labor and child labor, non-discrimination and respect for freedom of association. The findings of these audits regarding respect for these rights contribute to the global evaluation of the project or the audited site, and are subject to corrective actions.

2.3.6. Training and competence

The CGG HSE & social responsibility training programs are provided to the HSE community and to staff on all company sites, at CGG University and in the field. The variety of formats available (interactive classroom training, educational films, e-learning) seek to adapt the information to the public and optimize assimilation. CGG has completed over 52,968 hours of HSE and Social Responsibility training to its employees and subcontractors in 2017.

3

Employees

3.1. MATERIAL ISSUES CONCERNING EMPLOYEES

3.1.1. Economic environment and ensuing HR issues

The CGG Group is a leading market player in Geosciences, which form an integral part of the oil services industry value chain. It operates in two different business sectors, “geophysical and geoscience equipment” and “geophysical and geoscience services”.

These sectors have been particularly affected by the continued deterioration of the market since 2013.

The latest steps in the industrial transformation plan initiated in 2016 were rolled out in 2017, the main issue being the preservation of maximum employment by promoting internal redeployment or outplacement including by actions to provide guidance, training and support in the creation of new activities. Another key issue in HR policy has been to give renewed motivation to teams and allow professional and personal employee fulfilment in this context.

3.1.2. HR training/development

In a globalized economy which is marked by the continuous creation of new trades, continuing training and professional development are emerging as true strategic challenges. This competitive lever is an essential driver of innovation and growth.

It must constantly adapt to the new needs of employees which always require more personalization, immediacy, and mobility.

To continue and ensure its strategic position, CGG has a constant need to advance the women and men who are our main resource. CGG therefore strives to develop technical and managerial skills to create conditions that encourage technical expertise and an interdisciplinary and committed approach.

3.1.3. Restructuring

The CGG Group confirms its global strategy to build an integrated group among equipment, seismic acquisition, imaging and reservoir models with multi-client activity that is transverse and allows the best use to be made of the expertise and technology of the whole Group.

The industrial transformation plan required a large reduction in staff and led to the closing of some operational sites and industries, and major organizational changes, as well as the withdrawal of many vessels, airplanes and helicopters and the departure of marine teams and land and multi-physical teams. The resilience of the CGG Group allows it to overcome industrial change and financial turmoil. The Group is resized, rebalanced and now less capital intensive.

3.2. HUMAN RESOURCES POLICIES

3.2.1. Work environment

CGG’s Human Resource strategy consists of strengthening, mobilizing and inspiring our most important asset: the women and men of our company.

Coherent and ambitious HR practices and their implementation throughout the organization contribute to CGG’s attractiveness. This vision relies on objectives and action plans tied to initiatives that will lead to change, assist in the development of the talents of each of our employees and prepare us for future succession plans.

The development of a work environment that fosters equal opportunities and respect for all of our employees is encouraged by CGG. In order to suppress any form of discrimination, CGG makes resources available to any employee that allow him or her to anonymously communicate any offense that he or she may have been the victim of. The policies of the Group exclude the employment of anyone under 16, and we are committed to always being in compliance with the law and with local and international principles regarding child labor and the protection of young workers.

Furthermore, CGG is committed to maintaining working conditions compliant with health, safety, and ergonomic standards to contribute to both employee well-being and performance.

Employee assistance

The Employee Assistance Program was renewed in 2017 with the American company, ComPsych, for three years. This program, provided by a third party, guarantees confidentiality for the employee and aims to provide personal and individual assistance in case of need: medical, social, professional, or legal.

In France, this program co-exists with other more conventional forms of social assistance implemented under French labor regulations related to occupational health, *CHSCT* (HSE work council) (Health, Safety, and Working Conditions Committee), and recourse of elected staff representatives. However, in countries where the structure or laws do not permit such recourse, it compensates for it.

Institutional labor relations

In order to promote cooperation and information exchange, the CGG SA - CGG Services SAS ESU (Economic and Social Unit) and Sercel SAS in France have representative bodies with which they organize a number of official meetings (Group work council, work council, staff representative meeting, *CHSCT* (HSE work council), and various commissions) as well as trade union organizations with which agreements have been signed in France. Within the CGG SA - CGG Services SAS ESU, employee rights are guaranteed by a company labor agreement.

Body	Number of ESU ordinary meetings	Number of ESU extraordinary meetings	Number of ordinary Sercel SAS meetings	Number of extraordinary Sercel SAS meetings
<i>CHSCT</i> (HSE work council)	4	4	4	2
Work council (Central work council)	12	11	12 (3)	2 (1)
Staff representative meeting	12	0	10	2

Similarly, and in accordance with the law, staff representatives are elected for employees, field staff and expatriates of CGG International for a period of three years under the Swiss Code of Obligations. Elections for the Marine Committee took place in 2012 and led to the formation of a new committee in 2013, whose term of office was extended for a further year with the approval of the elected officials to implement the restructuring plan in 2016. The Land Committee was also renewed in 2013, after new elections, for an additional three years.

In Singapore, 76 employees are represented under the aegis of the collective bargaining agreement of December 31, 2012. These employees are represented by the SISEU (Singapore Industrial and Services Employees Union) which is affiliated to the National Trades Union Congress.

In Norway, we have an agreement with an employee representative union. 34 employees are members of this union.

Compliance with international labor agreements

The Group adheres to the principles and rules of the core conventions of the International Labour Organization (ILO). *See further detail in Section 2.2.2.2 (subsection Social Responsibility).*

Measures to promote the employment and integration of people with disabilities

The Group, as specified in its Human Resources Policy, rejects all forms of discrimination in employment or during the career of its employees. In particular, this concerns discrimination against people with disabilities. The Group complies with national legislation on the subject and does not publish statistics on the subject due to the nature of its activities and the constraints related to the collection and analysis of information that might exist in some countries which prevents the Group from recording this information in its databases (discrimination).

In France, the Group is subject to Law No. 2005-102 of February 11, 2005 on equal rights and opportunities as well as the participation and citizenship of people with disabilities.

Agreement on gender equality

CGG is making a special effort to promote greater gender balance in managerial functions through promotions and targeted recruitment.

The agreement on professional equality signed for Sercel SAS on October 23, 2012 ended on December 23, 2016; a new agreement has been finalized and is being signed to extend the specific actions on job desegregation, access to training, career paths and pay equity.

The Group’s Human Resources Policy, published in 2010 and amended in 2012, explicitly provides for non-discrimination in hiring and equality of opportunity and treatment between men and women.

Remuneration policy

CGG guarantees the homogeneity of the remuneration system while ensuring compliance with local practices. Rewarding the performance of each employee is at the heart of the implementation of mechanisms to share value created by the company.

This policy includes the following parameters:

- A competitive remuneration policy intended to attract, motivate, recruit, and retain skills needed by the Group.
- A remuneration policy that is consistent with market practices regarding base salary, variable share (short and long term), and benefits.
- Variable remuneration in keeping with the strategic objectives of the Group and aimed at the improvement of business performance.
- A remuneration policy in line with CGG’s culture and values: simple and fair systems, and the wish to actively encourage personal involvement, teamwork, innovation, and commitment to health, safety, environment, and sustainable development issues.

These general principles apply in each country where CGG has employees, in full respect with the legal framework.

3.2.2. Training and career development

The employee development and training policy remains at the heart of the group's priorities.

In a complex and uncertain economic environment, it is important for the organization and for each of its employees to continually acquire and develop the knowledge and expertise that are required for adapting to changes in technology, methods and working tools, as well as to changes outside of the company.

To do this, the Group continues to rely on existing HR tools and processes to encourage discussions regarding employee development, which include:

- An annual performance interview that allows, outside of the annual performance evaluation, for an exchange regarding employee's desires of professional development as well as possible development within the Company.
- An employee development plan, which formalizes the development actions to be taken for the employee.
- It includes training programs that will facilitate the acquisition of new expertise and soft skills in the Company.

The CGG Corporate University is a key partner to the employees in the implementation of their development. It is organized to ensure that there is a close relationship between the internal training offer and operational needs. There are contact persons in each region and they regularly meet with the business line managers. A needs report is performed every year.

The University provides training courses intended to foster the development of our employees and accelerate the integration of new employees in the Group's various activities.

It offers internal programs covering our core technical activities: seismic data acquisition, data processing and management, interpretation, geology and reservoir analysis, use of seismic equipment. These programs, delivered in conjunction with the operational centers, are offered to our employees as well as to our clients.

The CGG University also offers training that allows our staff to prepare themselves for managing teams, to handle customer relations or innovative projects and, in general, to meet the challenges of a high tech company in a fast changing environment.

3.3. MAIN RESULTS RELATING TO EMPLOYEES

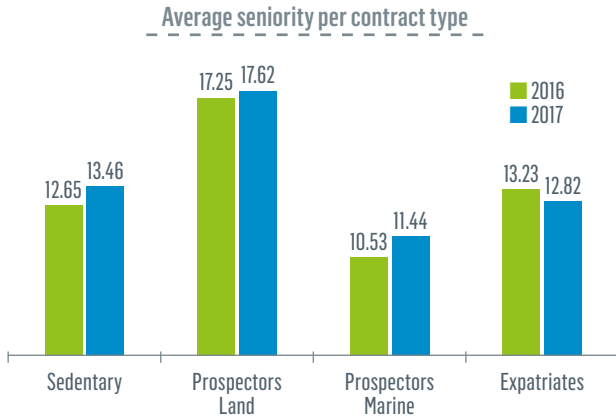
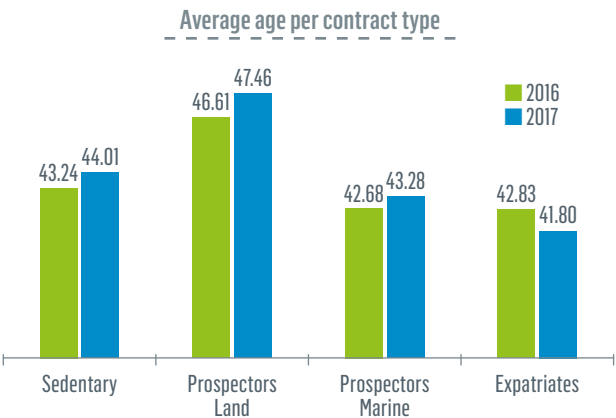
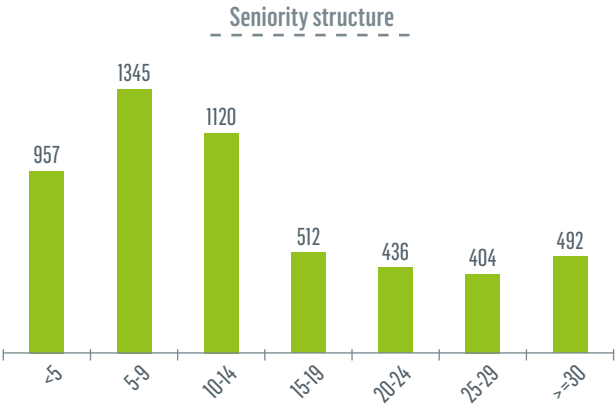
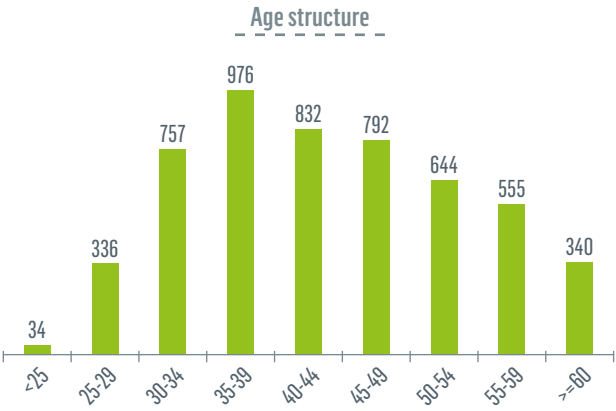
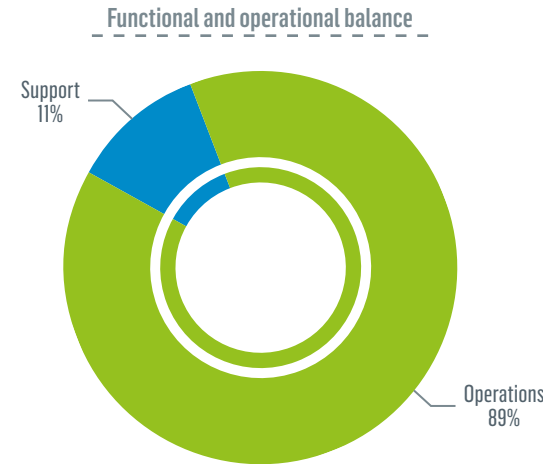
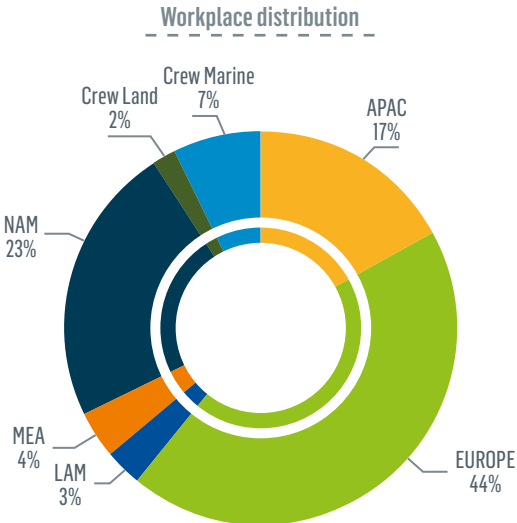
3.3.1. Situation and developments in 2017

Workforce

The figures below are for the CGG Group worldwide scope (see chapter on Methodology).

On December 31, 2017, the Group employed 5,266 permanent employees (compared to 5,766 on December 31, 2016). The following are the main indicators of the Group's human resources:

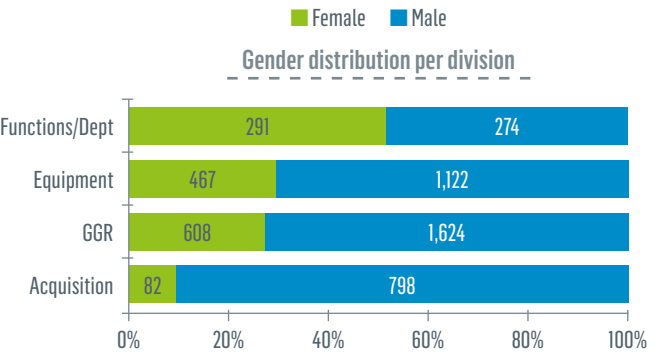
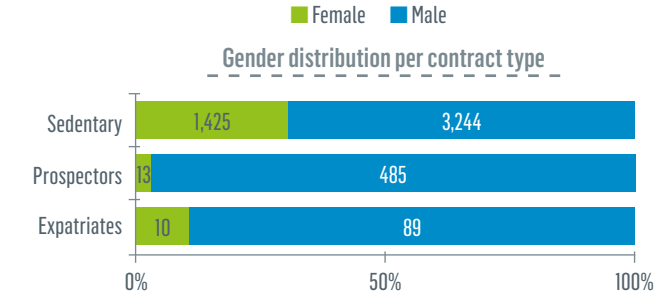
- 5,266 employees;
- over 85 nationalities;
- over 70 locations worldwide.

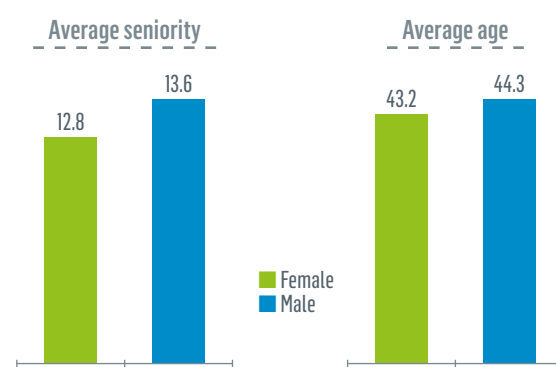
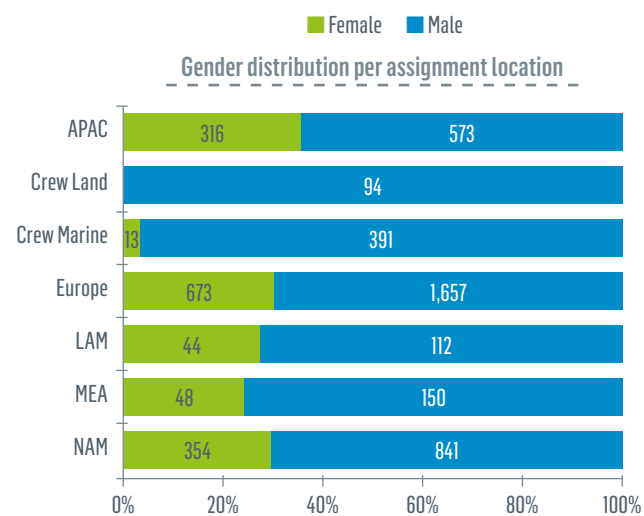


Equality between men and women

Over the last 5 years, the percentage of female in the Group has been maintained stable at around 27%.

Out of the Group's 5,266 permanent employees the gender distribution is as follows:



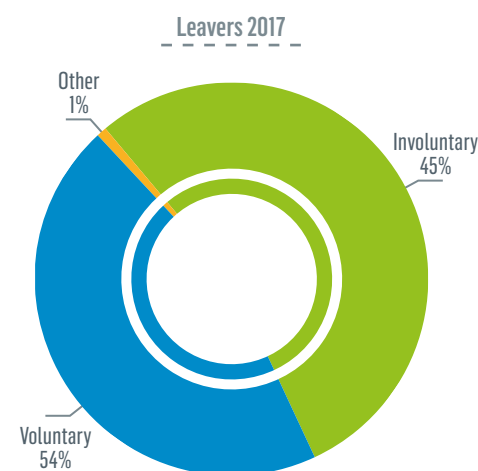
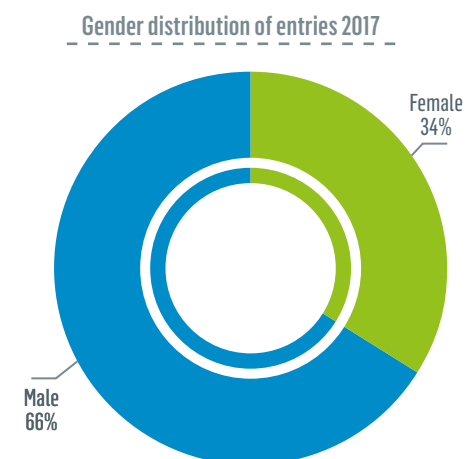


Entries and exits

In 2017, 215 entries and 704 exits were recorded for the Group's permanent employees.

Entries include 201 employments and 14 re-employments.

Exits include both voluntary departures (retirement, resignations, etc.) and involuntary departures (redundancies). Departures break down as follows:



Over the whole of 2017 a balance of 11 people was deducted from the workforce due to the suspension of their contract or working for a joint venture.

Against the backdrop of our transformation, we are increasing our focus on internal mobility, placing our reliance on the Country, Hub and Business Line HR teams to support our employees in these changes. We are maintaining strict control over new positions in our support functions. All positions are primarily filled in-house before we resort to external recruitment. The posting of our job offers in the career section of our Intranet site makes it easier to communicate our career opportunities rapidly and in all countries.

We have also introduced for our staff an Intranet site that brings together all the information and contacts that could be useful in the various HR areas. This central HR portal is a tool that gives our employees unique access to finding the information of interest to them day to day, either at group level or locally.

HR teams also have a common Intranet allowing them secure access to all the information, tools and files useful in the practice of their profession. This allows the same practices and a common standard to be shared within the Group.

3.3.2. Work environment

Employees are subject to compliance with the working times stipulated in the social regimes of their countries of assignment.

“Prospector” contracts are contracts that provide for rotational work arrangements, such as six weeks of work for six weeks of rest in Marine acquisition. Land acquisition rotations are more flexible according to the nature and duration of projects.

In France, Group working conditions are governed by a specific company labor agreement whose terms have been adopted in consultation with social partners. This agreement is common to the parent company, CGG SA, and CGG Services SAS as part of the economic and social unit (ESU) implemented. It does not include Sercel SAS which is subject to the collective bargaining agreements for the metallurgy industry.

Four types of working rhythm are provided for in this collective bargaining agreement:

- two regimes are for people working in offices (time-sheets and time-by-day);
- one is for annualized prospectors (set number of days of work per year) who work in rotation;
- one is for non-annualized prospectors who acquire rest days based on the number of days worked in the field.

Employee working rhythm is governed by an agreement on the reduction of working hours signed on August 27, 1999 and implemented, following the principle of annualization, by the implementing agreement of February 17, 2000.

A working time account was implemented in parallel with the implementation of the 35 hour working week. Similar schemes regarding work time planning have been implemented on Sercel SAS' French sites.

Absenteeism

The Group's Absence Management tool generates statistics for key countries within the limits of local laws and data reliability which is constantly improving. It is important to note that these figures are difficult to compare as the notions of work and absence are diverse and long-term absences are not taken into account in the same way

by the various local laws. We therefore only report absences of less than 100 days here.

The absenteeism rates (excluding parental and maternity leave) are detailed below, with a homogenized scope not taking the Equipment Business Line into account.



The absenteeism rate for Sercel SAS in France is 2.72% for absences of less than 100 days.

3.3.3. Professional training, HR development and remuneration

In a complex economic environment, CGG continues to implement a strategy which aims to help develop its employees and its organization. The knowledge and skills and competencies required for each job are regularly identified and assessed. Employee development through training, mentoring, and coaching and the broadening of assignments and experiences foster employee mobility and challenges. CGG University also offers a training program that is tailored to our present and future needs.

Training

In 2017, CGG University continued to improve its training catalogue in the area of reservoirs and geoscience and to offer conferences on subjects related to Geosciences, Information Technology and Management. CGG University also offers training programs in management and leadership, negotiation, project management and QHSE policy (quality, health, security and the environment).

In 2017, CGG University trained 3,899 trainees, of which 3,497 were employees, and 402 were external clients.

CGG University provided 6,285 days of training in 2017 of which 1,574 were for external customers and 4,711 for CGG employees. The 1,571 days of training provided to external customers concerned techniques for data acquisition and processing and reservoir geology, as well as project management.

The 4,711 days of training provided to our employees break down as follows:

1,528 days devoted to technical training (introduction to the fundamentals of our businesses and to geoscience, advanced training), 143 days devoted to health, security and the environment, 2,859 days devoted to individual managerial, leadership or development programs, 181 other training days provided in the form of conferences or by internal and external experts.

Finally, training activities relating to the promotion of ethics, the understanding of the business code of conduct, and the fight against discrimination and harassment continued to be deployed (e-learning). The attendance rate as of December 31, 2017 for this training was 95 % of the total population of the company.

In addition to its training programs, CGG University creates ad hoc programs or seminars to respond to specific operational requirements: organization agility, innovation, project management and feedback were the leading topics in 2017.

In addition to the Group's corporate university, training programs are also offered by third parties (external training organizations). External training provided by specialized professional bodies or equipment suppliers concern the acquisition of specific technical skills or generic business skills and can lead to a qualification. Health, Safety, and Environment (HSE) training, such as offshore safety induction, first aid, and fire-fighting, is mandatory for our prospectors and staff visiting our seismic acquisition vessels. Finally, a third type of training is provided in situ by operations staff themselves which include, among others, the continuous training of geophysicists or HSE and professional training for employees assigned to offshore, onshore or airborne surveying missions.

To better direct training and improve the return on investment, CGG developed and has deployed the “Course Tracker” (CT) tool since 2013. This tool registered 10,144 trainings given in 2017, of which 6,285 for CGGU.

Training data for 2017 is as follows:

- Course Tracker tool: 8,570 days
- OLM tool (for Marine Prospector training): 657 days
- Group e-learning tool: 95 % of employees
- Equipment Business Line France: 3,279 days

In France, outside of the mandatory training related to HSE, the 3,279 days of Sercel SAS employee training were divided into the following subjects:

- Languages: 121 days
- Industrial: 1368 days
- Management and control: 491 days
- Quality: 138 days
- IT: 440 days
- Research and Development: 332 days
- Sales and Marketing: 23 days
- Administration and support: 366 days

HSE training is one of the major axes of SERCEL and are broken down into the following 3 subjects:

- BOSIET type training, off-shore safety, first aid, electrical accreditation, safe driving accreditation, movement and posture, design ergonomics, bridge and cranes, dangerous material
- Training activities meet either legal obligations or the strategy that the company has used in 2017 (352 days total) on the following topics: First witness to a fire/Handling fire extinguishers, chemical risks and wearing PPE and an important segment on the Prevention of RPS and Health and Well Being at Work.
- Training activities relating to the promotion of ethics, the understanding of the business code of conduct, and the fight against discrimination and harassment, or e-learning on information security.

These training programs directly or indirectly aided in the development and resilience of CGG in a difficult market, by promoting operational excellence (quality and deadlines) and cross-disciplinary projects

HR development

The Group continued to use its Human Resources development tools to encourage discussion on personal and career development for employees. The main aspects and tools are: annual performance interview, personal development plan, annual review, and succession plan.

The annual review process for employees helps maintain a succession plan for key positions in the Group and identify promising talent. Following this identification, personal development plans are formalized for this category of employees to help them acquire or develop skills.

In addition to training, in CGG there are many initiatives aimed at employee development through exposure to varied projects and experiences, especially including international or functional transfers, and also through tutoring, coaching or participation in various professional networks.

International mobility is an integral part of the Group's business. In 2017, in parallel with the Group's restructuring efforts, we have continued to encourage mobility in particular through the recognition and development of local talent.

Compensation

In 2017, a performance-related bonus was paid to all employees for 2016. This variable portion of remuneration is implemented uniformly across the Group. It comes in two forms. One, for support and management entities (GPIP or Global Performance Incentive Plan), is equally based on collective financial performance and individual performance. The other, for production units, is based on their results compared to their own comparative production targets.

In France (CGG SA - CGG Services SAS ESU, and Sercel SAS), the remuneration policy also contains the following specific elements:

- Mandatory Annual Negotiations: wage negotiations with social partners in 2017 did not lead to any agreements being signed for CGG SA - CGG Services SAS ESU. The 2017 pay increase was 1.88% of the total payroll for ESU.
- For Sercel SAS, the wage negotiations with social partners led to the signing of an agreement for a salary budget increase of 1.3% of the total payroll: a specific budget of up to 0.5% of the total payroll was devoted to promotions.
- Profit sharing: the agreement originally signed on June 30, 2007 between the ESU and social partners expired in 2014. The 2015 negotiations with the social partners did not lead to a renewal of this agreement. Sercel SAS profit-sharing agreement was renewed on June 18, 2015 and did not result in a payment for 2015 and 2016.
- Staff share scheme: The ESU's results did not permit a budget to be allocated for this. Within Sercel SAS, the current agreement did not give rise to any payment in 2017 (for financial year 2016).
- The supplementary savings and retirement plans, “PEE” and “PERCO” remain in force. As of the end of December 2017, 350 employees joined the “PEE” and 458 joined the “PERCO” in CGG SA and CGG Services SAS. In Sercel SAS, only 3 employees joined the “PEE” and 2 joined “PERCO”. (Not including placements in relation to maturing participations).

4

HSE & Social Responsibility indicators

In addition to the indicators mentioned below, concrete examples of application of our HSE & Social Responsibility strategy are available on our website: www.cgg.com/fr > Sustainable Development > HSE & SD Case Studies.

EMPLOYEES

	2013	2014	2015	2016	2017	2017 external verification
Number of nationalities	108	102	94	87	88	✓
Permanent employees (Total) of which female (%)	9,688 26%	8,540 26.9%	7,277 26.9%	5,766 28%	5,266 27.5%	✓
Europe of which female (%)	3,601 29.3%	3,458 28.9%	3,138 28.8%	2,502 29%	2,330 28.9%	✓
Africa & Middle East of which female (%)	408 19.9%	338 20.7%	277 23.8%	230 23.9%	198 24.2%	✓
Asia Pacific of which female (%)	1,370 36.1%	1,258 36.6%	1,178 37.0%	1,007 37.4%	889 35.5%	✓
North America of which female (%)	2,294 31.3%	1,925 31.7%	1,496 30.1%	1,312 29.5%	1,195 29.6%	✓
Latin America of which female (%)	398 29.6%	336 26.8%	196 28.6%	168 30.4%	156 28.2%	✓
Marine Acquisition teams of which female (%)	1,242 6%	1,046 6.1%	841 5%	436 3.4%	404 3.2%	✓
Land Acquisition teams of which female (%)	375 0.8%	179 1.1%	151 0.7%	111 0.9%	94 0%	✓
Hiring of which female (%)	3,411 26.9%	587 31.2%	240 36.7%	114 27.2%	215 34%	✓
Total employee turnover rate including voluntary employee turnover	12.4%	17.83% 6.5%	17,22 4.88%	20.17% 4.89%	12.21% 6.42%	✓
Employees covered by a collective bargaining agreement (France, Norway, Singapore)	2,242	2,120	1,901	1,626	1,505	✓
Training provided by CGG University (hours)	115,255	120,656	87,744	68,712	50,280	✓

	2016	2017
Cases referred to the Ethics Committee (#), of which:	10	3
Human resources cases (#)	1	1
Harassment cases (#)	2	0
Compliance cases (#)	3	0
Conflict of interest cases (#)	1	2
Discrimination cases (#)	3	0
Other cases of human rights violations (#)	0	0

HEALTH & SAFETY

	2013	2014	2015	2016	2017	2017 external verification
Hours (millions) of which Land BL of which GGR BL of which Marine BL of which Equipment BL of which Support functions of which Multiphysics BL	68.4 50% 10% 26% 11% 3% 0%	54.8 43% 14% 28% 11% 3% 1%	52.1 56% 11% 20% 8% 4% 1%	24.3 43% 24% 13% 11% 7% 2%	24 45% 21% 14% 11% 7% 2%	✓
Fatality	0	1	1	0	0	✓
Fatality rate	0	1.8	1.9	0	0	✓
Partial or permanent disability	1	0	1	0	0	✓
Lost time injury frequency rate	0.60	0.42	0.29	0.25	0.5	✓
Total Recorded Cases Frequency	2.16	1.79	1.38	1.40	1.9	✓
Severity rate	0.013	0.01	0.01	0.004	0.018	✓
Recordable occupational diseases with days lost frequency rate*	0.20	0.12	0.08	0.09	0.05	✓
Recordable occupational diseases with days lost frequency rate*	0.71	0.35	0.33	0.14	0.23	✓
Recordable occupational diseases with days lost frequency rate*	0.002	0.001	0.003	0.001	0.0005	✓
Driven Kilometers (million)*	28,300,000	26,000,000	22,500,000	18,900,000	16,100,000	✓
Motor vehicle crash rate*	0.88	0.60	0.44	0.74	0.31	✓
HSE Field Training (hours)	142,666	141,617	109,593	71,688	52,968	✓
Inspections	101,901	112,723	95,037	124,137	69,761	✓
HSE-OMS (health, safety, security, environment, social responsibility) audits	74	47	40	28	34	✓
“Rules to Live By” Violations Frequency	2.3	2.8	2.0	5.2	3.1	✓

Notes on Health & Safety:

In 2016, CGG changed the convention for calculating hours, aiming for greater consistency among our different Business Lines but also with our industry associations (IOGP and IAGC). Following the consolidation, the hours worked and not the hours exposed are taken into account (as at offshore sites and camps). The total of hours for 2016 and 2017 is thus lower than it would have been under 2015 convention.

Frequency rates are calculated on the basis of one million hours worked. The Fatality Rate is calculated on 100 million hours worked. The severity rate is calculated on the basis of 1000 hours worked.

Indicators marked with * do not take into account the Equipment Business Line (2.6 million hours worked in 2017).

The significant gap between the “Rules to Live By” violations frequency between the years 2015 and 2016 is due to a change in the scope, now widened to include the Equipment Business Line.

ENVIRONMENT

	2013	2014	2015	2016	2017	2017 external verification
Territorial footprint of acquisition activities (km² covered) <i>including Multiphysics airborne activity</i> <i>including Marine activity</i> <i>including Land activity</i>			707,814 <i>552,000</i> <i>135,243</i> <i>20,571</i>	391,310 <i>273,658</i> <i>98,304</i> <i>19,348</i>	380,946 <i>273,354</i> <i>90,474</i> <i>17,118</i>	✓
Significant environmental incidents (#)	1	0	1	0	0	✓
Accidental hydrocarbon spills >200 liters (#)	1	0	2	0	0	✓
Residual hydrocarbon spillage after clean-up (m³)	0.2	0	0.4	0	0	✓
Energy consumption (Total in GWh) <i>including Fuel oil (GWh)</i> <i>including Natural gas (GWh)</i> <i>including Electricity (GWh)</i>			2,552 <i>2,360</i> <i>41</i> <i>151</i>	1,503 <i>1,362</i> <i>21</i> <i>120</i>	1689 <i>1554</i> <i>9</i> <i>126</i>	✓
Energy efficiency - Marine Acquisition Marine Fuel Efficiency Index (CMP-kms/m³ of fuel)	51	54	55	43	67	✓
GGR Energy efficiency - Power Usage Effectiveness (PUE) ¹	1.41	1.40	1.36	1.31	1.32	✓
Total direct and indirect greenhouse gas emissions (Scope 1 & 2; kton CO ₂ eq.) ² <i>including direct emissions (Scope 1)</i> <i>including indirect emissions (Scope 2)</i>	995 <i>920</i> <i>75</i>	747 <i>700</i> <i>47</i>	649 <i>558</i> <i>91</i>	446 <i>374</i> <i>71</i>	482 <i>420</i> <i>62</i>	✓
Intensity of greenhouse gas emissions (Scope 1 & 2 ; kton CO ₂ eq. per employee)	103	88	89	77	91	✓
Sulfur oxide emissions (SOx) of the marine fleet (kton)				0.6 ³	1.2	✓
Nitrous oxide emissions (NOx) of the marine fleet (kton)				4 ³	5.7	✓
Significant fines for non-compliance in environmental matters (#)	0	0	0	0	0	✓
Grievances about environmental impacts filed, addressed & resolved through formal mechanisms	0	0	0	0	0	✓
Marine Mammal Observations (#)	2,069	4,189	3,562	1,808	1,538	✓
Visual observations (#)	1,417	2,381	1,995	918	733	✓
Acoustic detections (#)	652	1,807	1,567	890	805	✓
Measures for the protection of marine mammals (# of hours of stopped seismic sources)	133	254	204	231	361	✓

Notes on Environment:

The fuel consumed by the seismic fleet represents three quarters of the Group's energy consumption. Marine diesel, which emits less sulfur and fine particles, represents 78% of fuel consumed. In 2017, the fuel oil energy consumption and the associated greenhouse gases have augmented, as a result of survey design and enhanced productivity (3D vessels towing more streamers, long Wide Azimuth Survey). Optimization of the energy used on the vessels is a key element in the relationship between CGG and its maritime partners, who formalize the areas for improvement in their Ship Energy Efficiency Management Plans. In 2017, the ship manager CGG Eidesvik continued to use its energy efficiency program Blue-e. Energy savings yielded 3.8% of annual consumption of vessels fuel, equal to the energy consumption required for 6 cross Atlantic crossings in these same vessels.

The Energy efficiency index measures the number of seismic data points acquired per unit of fuel. The continued improvement in the productivity of the seismic vessels, as well as the success of studies such as Wide Azimuth will improve this index over the long term. In 2017, the WAZ study was continued for more than 6 months by five vessels in Mexican waters, and strongly contributed to the improvement in this index.

1 The PUE relating the total energy of the data center (infrastructure) to that of computer equipment is calculated as recommended by Energy Star, Recommendations For Measuring and Reporting Overall Data Center Efficiency Version 2 - Measuring PUE for Data Centers, May 2011. The data in the table takes into account the three main CGG data centers.
2 Conversions of energy data into emissions were made using the methodology of the Greenhouse Gas Protocol developed by the World Resources Institute (WRI), 2016 edition.
3 2016 data reevaluated in 2017.

The GGR subsurface image requires a large computing capacity, housed in the data centres of CGG. The Power Usage Effectiveness (PUE) is the leading indicator of the energy efficiency of a data centre.

CGG has cut its greenhouse gas emissions in half in five years as a result of the transformation of the company's business model. Geosciences (GGR) emit significantly less gas than the acquisition of seismic data. The slight increase in direct emissions in 2017 is linked to the increase of the total fuel oil consumption in Marine as a result of Wide Azimuth surveys.

SOCIAL RESPONSIBILITY

	2013	2014	2015	2016	2017	2017 external verification
Management of Local Communities / Local Content						
Employees working in a country in which they are nationals ¹			78 %	79 %	80%	✓
Managers working in a country in which they are nationals ²			70 %	72 %	72%	✓
Days worked by the staff who are nationals of the country of the acquisition project ³			733,500	517,500	469,000	✓
Partnerships with Universities and donations for educational purposes of CGG GeoSoftware						
Number of partner Universities in the CGG GeoSoftware donation program <i>of which Universities located in countries considered to be developing countries (non OECD countries)</i>		50 30	116 37	129 37	116 28	✓
Estimated commercial value of license donations and renewal (US \$ millions)		133	450	311	479	✓

ESG INDEXES (ENVIRONMENT, SOCIAL AND GOVERNANCE)

The recognition of ESG best practices of CGG by Dow Jones Sustainability World Index ended in 2017. CGG is no longer invited to compete, due to its weak market capitalization. CGG was renewed on the investment register Ethibel Excellence in December 2017. This selection by the Ethibel Forum (www.forumethibel.org) indicates that the company performs better than the average in its sector in terms of Corporate Social Responsibility (CSR).

ESG index listing CGG as of December 31, 2017: Ethibel EXCELLENCE Investment Registers

1 Scope: CGG Group except offshore and onshore field staff.
2 Sites reporting more than 50 employees. Manager: employee with at least one subordinate. 2015 Scope: CGG Group without Equipment; Scopes 2016 and 2017: CGG Group.
3 Scope: Land Business Line, operations in non-OECD countries directly or through participation in the ARGAS joint venture.

Methodology note

5.1. SELECTION AND PERTINENCE OF INDICATORS

Published data is intended to inform stakeholders of CGG's HSE & social responsibility results for the current year. It is in line with IOGP, EPCM, and Global Reporting Initiative (GRI) recommendations on information transparency regarding social and environmental responsibility data.

Indicators were selected to monitor:

- ✓ CGG's HSE and social responsibility commitments and policies integrated in management systems;
- ✓ performance relating to CGG's main risks and impacts;
- ✓ regulatory obligations (French Commercial Code, updated in 2012 by the decree implementing Article 225 of the Grenelle II law and in 2016 by Article 173 of the law on energy transition and green growth).

The themes mentioned in the decree are handled as transparently as possible. Those presented below, considered non material at a Group level (see the complete materiality study as a graph in paragraph 1.1 of this document), were not subject to detailed reporting for the following reasons:

5.1.1. Environment

- ✓ **Consumption of raw materials and measures to improve efficiency in their use:** Only the Equipment Business Line within the Group consumes raw materials. The systematic approach to eco-design of this Business Line particularly aims to minimize their use. Benefits in terms of weight, material and energy consumption reduction are highlighted on the product datasheets of new generations of products. In addition, work is being conducted to determine whether the minerals used in its manufacturing facilities stem from the Democratic Republic of Congo and/or adjacent countries (report available on <http://www.cgg.com/en/Investors/Financial-Information/Quarterly-and-Annual-Reports>).

- ✓ **Water use and supply according to local constraints:** CGG consumes little water (estimated volume of 327,000 m3 in 2017). Seismic surveys taking place in a desert environment or suffering from water stress are also low consumers of water (estimated average of 170 litres per employee per day). Preventing potential impact on the local community's water supply is taken into consideration in project risk assessment plans.

- ✓ **Prevention, recycling, and waste disposal measures:** CGG emits a low level of waste in the oil services sector. Permanent sites as well as seismic acquisition projects have determined waste management plans that all include the same principles: avoid, reduce, reuse, and treat/recycle. About 8,000 tons of waste were generated in 2017, of which 90% were non-hazardous. Sludge and oily water from the vessels are the largest source of hazardous waste. They are treated in authorized centres on land. Only one quarter of the waste from CGG's activities is given to material recycling. The seismic acquisition activities are used in regions where the infrastructure for the treatment of waste is undeveloped.

- ✓ **Activities in the fight against food waste:** The 2016 evaluation campaign demonstrated that CGG wastes two times less food in its mass catering facilities compared to the French average. Our service providers continue their awareness campaigns.

- ✓ **Adaptation to climate change:** The physical risks related to climate change should not impact the Group's activities in the short term. Financial risks related to the energy transition are being assessed and further described in Chapter 3, "Risks and Controls".

- ✓ **Measures to enhance biodiversity:** The Group is particularly committed to minimizing the environmental footprint of its activities so as to not impact habitats and their related biodiversity.

- ✓ **Use of land:** Most of CGG permanent sites are located in highly urban areas and have not caused any cropland loss. Land seismic acquisition projects that require to access crops or cultivable land are tightly managed by a permitting team in order to prevent or reduce potential damage. Land owners are compensated when an impact is noted.

- ✓ **Amount of provisions and guarantees for environmental risks:** CGG has not established any provisions for environmental risk. The amount of guarantees is confidential;

- ✓ **Use of renewable energy:** 85% of CGG's energy consumption serves seismic acquisition's maritime, airborne and road transport activities. These activities occur mostly round the clock and do not lend themselves to the use of renewable energy. CGG permanent office locations use renewable energy on a case by case basis. For example, British CGG sites are supplied with electricity produced from a mix of wind, wave, solar, biomass, and hydro power. The main French site of CGG uses heat from the recycling of municipal waste.

- ✓ **Significant sources of greenhouse gas emissions generated due to the activity of the company, including the use of goods and services it produces:** Scope 3 of greenhouse gas emissions of CGG were estimated at 100 ktons eq. CO₂. The most significant source of emissions are related to the production of hydrocarbons consumed by the seismic vessels and the land acquisition vehicles.

5.1.2. Society

- ✓ **Sub-contractors and suppliers:** Although the volume of purchases by the Group is very large, exposure to environmental and social responsibility risks in its supply chain is very limited. 86% of its products and services are from suppliers in countries considered to have a low risk of corruption by Transparency International (corruption perceptions index equal to or higher than 60). 82% of the total volume of purchases are from OECD countries, countries that recognize the ILO Declaration on Fundamental Principles and Rights at Work and whose environmental legislation is developed.

The Marine Products Business Line evaluates the performance of the service providers that are considered critical for operations. Five major evaluation criteria are considered, the first being HSE.

- ✓ **Measures for consumer health and safety:** CGG mainly provides services to its clients and is not in contact with consumers. The Equipment Business Line trains its clients to use its products and provides all information about the materials used. The Group has not been informed of any adverse effects to date.

5.2. METHOD

CGG's HSE & social responsibility reporting procedures are based on the Group's Event Reporting, Recording and Classification Guidelines.

5.3. SCOPE

HSE & Social Responsibility reporting concerns all employees and contractors working under CGG's prevailing influence, namely all of our sites and acquisition activities that are at least 50% owned by CGG and consolidated in the Group's financial statements.

As an exception to this rule, HSE reporting also covers the operations of:

- ✓ ARGAS, in the Middle East;
- ✓ Amadeus and Binh Minh 2, vessels operated through the minority joint venture PTSC CGGV Geophysical Survey Company Limited in Vietnam.

Unless otherwise specified, all statistics provided in this report include this scope which accounted for more than 24 million hours worked in 2017.

Every site, factory and mission for the acquisition of seismic data records its HSE activities and incidents in PRISM, which is CGG's integrated tool for HSE and social responsibility reporting and risk assessment.

Data associated with acquisitions is recorded as soon as possible and no later than January 1 of the following year; sales activities are recorded in the month following their actual output.

Human Resources ("HR") indicators used cover the consolidated scope of the Group. The figures for HR have mainly been extracted from the Group's HR information system which is the HRMS ("Human Resources Management System") database. This database is deployed in all Group entities, with the exception of the Equipment Business Line. Equipment data is therefore currently consolidated manually.

The statistical data regarding the work force of the Group conform to the following regulations (unless indicated otherwise):

- ✓ CGG employees only (sub-contractors and employees working for a minority joint venture are excluded);
- ✓ no employee under long term absence (contract suspension, long term disability);
- ✓ employees leaving the group on the last day of a given month are included in said month.

The employees of equity-accounted companies are not included in the calculations. In the case of acquisition or disposal, the scope is adjusted to the effective time of the transaction and variances are explained.

5.4. CONSOLIDATION AND INTERNAL CONTROL

HSE and sustainable development data is reviewed on a weekly basis by HSE and sustainable development support functions. The data is then consolidated every month at the segment and Group level. Data pertaining to certain specific indicators are calculated directly by the businesses. These processes undergo regular internal audits

HR consolidation and adjustment rules are defined by a protocol followed for each report to ensure the comparability and traceability of the information provided. Data in this report may differ from the data reported for national scopes for the same domain, depending on national regulatory methodologies.

However, the information managed in this Group database does not contain all the data recorded and stored in local databases mainly relating to payroll. Note that these databases are outsourced in major countries, except for the USA and Canada. The Group database is not intended to replace the various national administrative data processing systems (typically payroll systems) which are compliant with the laws of the country concerned.

The structure of personal data collection and storage varies from one country to another depending on national regulations. Some of the information collected which is subject to monitoring in France is illegal in other countries and vice versa, which is why some information cannot be consolidated at world level.

The data is recorded in HR information systems by local HR administration entities or through a service specially structured for this purpose (e.g. the Employee Service Center for North America). This data is verified at two levels:

- ✓ a SOX level of compliance in the form of annual audits and implementation of continuous control points for personal data: gender, dates of birth, seniority, wages, promotions, tax situations, contract type, etc.;
- ✓ an organizational compliance level concerning reporting lines, membership to trade families, Division, Function, Business Line (Business Line), etc., through audits conducted on operational and functional HR for monthly and quarterly reports.

Finally, some global processes implemented through tools directly connected to the HRMS database such as the annual performance evaluation, annual salary review, calculation of annual bonuses, also allows ad hoc (at least once a year) cross-referencing of information and its analysis and validation.

The data reported is based on the 2017 calendar year. Information regarding certain themes, including training hours and absenteeism data, is not based on the entire scope. The tools to consolidate these figures are currently being deployed or improved. However, we believe that the main scope (countries or activities) are covered.

5.5. DEFINITIONS

The following section provides definitions of the various terms used in the “Employees” section of this report.

- ✓ The Group: CGG Group, including all activities in the various countries where the Group operates;
- ✓ Office-based staff: office or workshop staff working on a weekly basis;
- ✓ Field staff: staff working in rotation over several weeks on onshore or offshore seismic activity projects or on the water in seismic vessels.

6

Independent verifier's report on consolidated social, environmental and societal information¹

Year ended the 31st December 2017,

Independent verifier's report on consolidated social, environmental and societal information presented in the management report

This is a free translation into English of the original report issued in the French language and it is provided solely for the convenience of English speaking users. This report should be read in conjunction with, and construed in accordance with, French law and professional standards applicable in France.

To the shareholders,

In our quality as an independent verifier accredited by the COFRAC², under the number n° 3-1050, and as a member of the network of one of the statutory auditors of the company CGG, we present our report on the consolidated social, environmental and societal information established for the year ended on the 31 12 2017, presented in chapter 2 of the management report, hereafter referred to as the “CSR Information”, pursuant to the provisions of the article L.225-102-1 of the French Commercial code (Code de commerce).

Responsibility of the company

It is the responsibility of the Board of Directors to establish a management report including CSR Information referred to in the article R. 225-105-1 of the French Commercial code (Code de commerce), in accordance with the protocols used by the company (hereafter referred to as the “Criteria”), and of which a summary is included in section “2.5 Methodological note” of chapter 2 of the French Document de référence including the management report, and available on request at the company's headquarters.

Independence and quality control

Our independence is defined by regulatory requirements, the Code of Ethics of our profession as well as the provisions in the article L. 822-11 of the French Commercial Code (code de commerce). In addition, we have implemented a quality control system, including documented policies and procedures to ensure compliance with ethical standards, professional standards and applicable laws and regulations.

Responsibility of the independent verifier

It is our role, based on our work:

- to attest whether the required CSR Information is present in the management report or, in the case of its omission, that an appropriate explanation has been provided, in accordance with the third paragraph of R. 225-105 of the French Commercial Code (Code de commerce) (Attestation of presence of CSR Information);
- to express a limited assurance conclusion, that the CSR Information, overall, is fairly presented, in all material aspects, in according with the Criteria.

Nonetheless, it is not our role to give an opinion on the compliance with other legal dispositions where applicable, in particular those provided for in the Sapin II law n°2016-1691 of December 9, 2016 (anti-corruption).

Our verification work mobilized the skills of four people between August 2017 and February 2018 for an estimated duration of 16 weeks.

We conducted the work described below in accordance with the professional standards applicable in France and the Order of May 13, 2013 determining the conditions under which an independent third-party verifier conducts its mission, and in relation to the opinion of fairness and the reasonable assurance report, in accordance with the international standard ISAE 3000³.

¹ This translation of the independent verifier's report on consolidated social, environmental and societal information which is included in the French Document de Référence on fiscal year 2015 is included here for information purpose.

² Scope available at www.cofrac.fr.

³ ISAE 3000 – Assurance engagements other than audits or reviews of historical information.

1. ATTESTATION OF PRESENCE OF CSR INFORMATION

Nature and scope of the work

We obtained an understanding of the company's CSR issues, based on interviews with the management of relevant departments, a presentation of the company's strategy on sustainable development based on the social and environmental consequences linked to the activities of the company and its societal commitments, as well as, where appropriate, resulting actions or programmes.

We have compared the information presented in the management report with the list as provided for in the Article R. 225-105-1 of the French Commercial Code (Code de commerce).

In the absence of certain consolidated information, we have verified that the explanations were provided in accordance with the provisions in Article R. 225-105-1, paragraph 3, of the French Commercial Code (Code de commerce).

We verified that the information covers the consolidated perimeter, namely the entity and its subsidiaries, as aligned with the meaning of the Article L.233-1 and the entities which it controls, as aligned with the meaning of the Article L.233-3 of the French Commercial Code (Code de commerce) with the limitations specified in the Methodological Note (section 2.6) in chapter 2 of the French Document de référence.

Conclusion

Based on this work, we confirm the presence in the management report of the required CSR information.

2. LIMITED ASSURANCE ON CSR INFORMATION

Nature and scope of the work

We undertook four interviews with the people responsible for the preparation of the CSR Information in the different departments of Sustainable Development, Human Resources and HSE, in charge of the data collection process and, if applicable, the people responsible for internal control processes and risk management, in order to:

- Assess the suitability of the Criteria for reporting, in relation to their relevance, completeness, reliability, neutrality, and understandability, taking into consideration, if relevant, industry standards;
- Verify the implementation of the process for the collection, compilation, processing and control for completeness and consistency of the CSR Information and identify the procedures for internal control and risk management related to the preparation of the CSR Information.

We determined the nature and extent of our tests and inspections based on the nature and importance of the CSR Information, in relation to the characteristics of the Company, its social and environmental issues, its strategy in relation to sustainable development and industry best practices.

For the CSR Information which we considered the most important¹:

- At the level of the consolidated entity, we consulted documentary sources and conducted interviews to corroborate the qualitative information (organisation, policies, actions, etc.), we implemented analytical procedures on the quantitative information and verified, on a test basis, the calculations and the compilation of the information, and also verified their coherence and consistency with the other information presented in the management report;
- At the level of the representative selection of sites that we selected², based on their activity, their contribution to the consolidated indicators, their location and a risk analysis, we undertook interviews to verify the correct application of the procedures and undertook detailed tests on the basis of samples, consisting in verifying the calculations made and linking them with supporting documentation. The sample selected therefore represented for example 33% of total headcount and 24% of energy consumption of the Group, which were considered representative of social and environmental topics.

For the other consolidated CSR information, we assessed their consistency in relation to our knowledge of the company.

Finally, we assessed the relevance of the explanations provided, if appropriate, in the partial or total absence of certain information.

We consider that the sample methods and sizes of the samples that we considered by exercising our professional judgment allow us to express a limited assurance conclusion; an assurance of a higher level would have required more extensive verification work. Due to the necessary use of sampling techniques and other limitations

inherent in the functioning of any information and internal control system, the risk of non-detection of a significant anomaly in the CSR Information cannot be entirely eliminated.

Conclusion

Based on our work, we have not identified any significant misstatement that causes us to believe that the CSR Information, taken together, has not been fairly presented, in compliance with the Criteria.

Paris-La Défense, March 29, 2018

French original signed by:

Independent Verifier
ERNST & YOUNG et Associés

Christophe Schmeitzky
Partner, Sustainable Development

Bruno Perrin
Partner

1 Environmental, social and societal information:
- Indicators (quantitative information) : information and indicators marked with a "tick" in the text of Chapter 2 "Sustainable Development", including: number of permanent employees, number of entries and exits in the company, Lost Time Injury Frequency Rate (LTIF) and Total Recordable Cases Frequency (TRCF), number of training days provided by CGG University, minimization of the footprint of the Group's products and services, number of accidental spills of moderate or higher level at sea or on land, Power Usage Effectiveness (PUE), amount of linear seismic data acquired per cubic meter of fuel consumed, marine fauna monitoring & mitigation measures (number of sightings, number of acoustic detections, number of hours of downtime, number of marine fauna shutdowns, number of delayed soft-starts), percentage of national staff by country of permanent implantation, the share of purchases from suppliers in countries with low risk of corruption.
- Quantitative information: employment (permanent employees and distribution, hires and layoffs, compensation and its evolution), work time organization, absenteeism, institutional labor relations (organization of social dialogue, overview of collective agreements), relationships with stakeholders, health and safety work conditions, work accidents, including their frequency and severity, occupational illnesses, training policy, diversity and equal opportunity policy (agreement on gender equality, measures to promote the employment and integration of disabled employees, rejection of all forms of discrimination), promotion and respect of the ILO core conventions (freedom of association, elimination of discrimination, of child and forced labor).

2 The subsidiary Sercel (France), the entity CGG do Brazil (Brazil), the seismic acquisition survey in Seebach (France).



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Design and model: purplepop

