

Oil and Gas

Exploration and Production



Expert services providing flexible support for safe and efficient exploration and production

Whether discovering lucrative new sources or building, operating and maintaining safe and efficient production facilities, successful companies in the oil and gas sector depend on sound planning, testing, inspection and maintenance to ensure optimal performance at the highest safety standards. We provide you comprehensive expertise to help you develop and implement the effective strategies and processes you need to succeed.

Securing Industrial Assets – protecting resources and property

Robust facilities able to withstand environmental challenges while complying with international regulatory statutes ensure the safety of your employees and the efficiency of your business. DEKRA provides a number of services specifically designed to help companies in the exploration and production of oil and gas meet the high standards necessary to achieve ambitious goals.

Advanced Non-Destructive Testing (NDT/Mechanized Inspection)

Advanced Non-Destructive Testing is used to examine materials and objects to locate and measure surface and subsurface defects without causing damage to the test item. Often used for inspection and remote or online monitoring during operation, Advanced NDT technologies minimize downtimes due to maintenance or repair to keep your facility up and running. Specific mechanized NDT solutions can be implemented to safely access confined spaces or contaminated environments to protect human health and save you time and money. Advanced NDT further provides a reliable and cost-efficient inspection of pipe girth welds.

Cyber Security and Data Protection

With the continual growth in cybercrime and data security breaches, IT security is a key challenge for all technology users today.

From network security to penetration testing and risk assessment, our 360° services are based on a comprehensive analysis of your IT processes. Working from that basis, we can help design and implement security systems, provide an information security officer, or use behavioral technology to optimize your organization's cyber security, including Internet-of-Things (IoT) and Machine-to-Machine (M2M) networks.

Destructive Testing

Our legacy of conducting state-of-the-art materials testing to qualify material characteristics in order to avoid breaks or accidents in accredited laboratory facilities around the world ensures manufacturers and plant owners reliable results based on decades of engineering know-how.

Environmental Advisory and Services

Prioritizing environmental responsibility, our environmental consultants and advisors ensure your compliance and recommend strategies aimed at increasing your company efficiency. DEKRA experts are there to help with extensive experience in providing environmental appraisals, assessments and permits as well as due diligence and on-site advisory services.

Examination of Experts for IT and Cyber Security

To inspire trust among existing customers and attract potential new clients, it is essential to ensure information security and to protect IT systems, components and processes. Validation by an objective third party gives employees confidence in their skills and customers confidence that they have chosen the right partner. Accredited DEKRA personnel certification services span a wide range of requirements generally recognized on the international stage.

Examination of Experts for Occupational Health and Safety

Validation by an objective third party gives employees confidence in their skills especially when it comes to the occupational safety of your employees. With our examination services you can be sure that your in-house experts can prove their expertise.

Explosion Safety

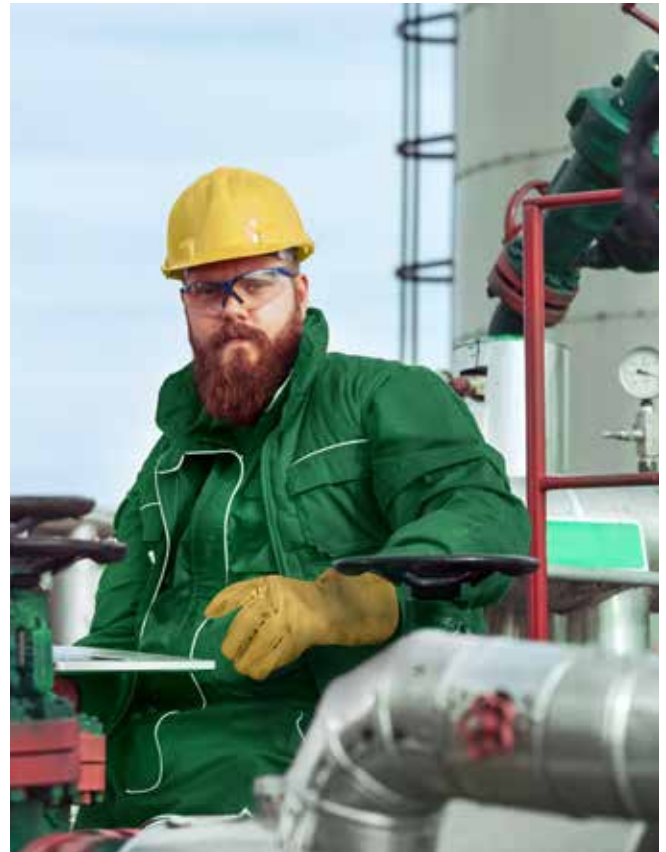
DEKRA supports you in fulfilling the safety requirements as described in the applicable European Directives and possible additional national legislations. As a European Notified Body, DEKRA tests, assesses and certifies according to the ATEX Directive 2014/34/EU, amongst others. Our experience and expertise combined with our pragmatic approach has made us one of the top 3 players in the world in this work field of ATEX and IECEx. Furthermore, we are a founding member of the globally acknowledged IECEx scheme, through which we provide services both as a certification body (ExCB) and as a testing laboratory (ExTL). With our VT 1000 Ex – Full HD Ex classified (Atex Zone 1 rated) inspection camera we can also support you with remote visual inspections in high-risk explosive environments.

Fire Protection Management and Advisory

Our fire protection experts conduct thorough assessments, serve as external fire prevention officers and provide recognized consulting and other support services to help you fully understand and appropriately address your overall fire risk.

Health, Safety and Environment (HSE) Management System

We help to ensure your ability to protect employee health and safety as well as the local environment. ISO 50001 certification improves energy efficiency with the introduction of an effective energy management system, while ISO 14001 certifies your environmental management system to demonstrate sustainable operation. ISO 45001 certifies your occupational health and safety management system.



Information Security Management System (ISMS)

DEKRA experts work to help you protect sensitive data and secure your IT systems, components and processes to meet today's cyber security challenges with certification in accordance with ISO 27001.

Mandatory and Voluntary Inspection for Lift, Machinery and Cranes

DEKRA experts provide comprehensive and customized support to ensure lifting equipment, cranes and other machinery meet all the necessary safety standards and regulatory obligations. Whether on-site, online, or from a remote location, we help you to optimize your workflow, reduce system downtime, increase safety and efficiency, and prolong service lifetime. Our technical competences related to machines and industrial equipment are available to you worldwide at the earliest project stages and throughout the life cycle of your asset.

Mandatory and Voluntary Inspection for Pressure Equipment

Based on decades of experience, DEKRA has developed a wide range of services to ensure compliance of potentially hazardous pressurized equipment such as pipes, pipelines and tanks. We are your reliable and recognized partner, providing certification of your corporate processes, quality assurance systems and safety procedures.

Mandatory and Voluntary Inspections of Electrical Installations

Through comprehensive programs and reporting, our experts secure your electrical systems to ensure compliance, detect errors and minimize costs from the earliest planning stages. We conduct failure risk analysis using perturbation measurement to correct malfunctions degrading the performance of your electrical installations and ensure reliable operation of your facilities. Our power measurement services are essential when changing a transformer, installing a generator, or changing your energy grid subscription contract. We also provide thermographic measurements using infrared thermography to reduce the risk of costly unscheduled downtime, conserve energy, improve safety and ensure quality. DEKRA operates as an accredited body or with specially authorized electricians to carry out mandatory initial periodical and non-periodic inspections for the oil and gas sector.

Process Safety Competence Development

The DEKRA Process Safety Academy provides competence development programs in all areas of process safety. We incorporate various learning methodologies, including public courses and events, tailored in-house courses, e-learning and computer-based training and skills development programs.

Process Safety Consulting and Testing

Whether you are carrying out a safety review, implementing safety audits or ensuring regulatory compliance with standards or regulations, DEKRA experts can help with impartial advice and effective recommendations. Our process safety testing services are carried out in state-of-the-art laboratories in accordance with local and international standards. Our trained specialists conduct the proper testing and expert analysis essential to preventing fires, explosions or other disasters. We provide you the support you need to accurately recognize potential risk factors inherent to the handling, storing and processing of hazardous substances and to develop a robust and effective process safety management system.

Safety Advisory, Services and Coordination

Protect your employees from accidents and other hazards in the workplace and minimize the overall effort for your occupational safety measures by engaging with our safety specialists. Our experts help you reach your safety goals with a range of tailored services including advisory, risk assessments, coaching and instructions/training, due diligence and on-site support. At construction sites and during shutdowns or turnarounds, we provide coordination and safety services related to all project phases, and with industries involving hazardous substances, we can share our expertise in proper handling, storage and transport.

Second-Party Audits

Experienced auditors provide fast and efficient audits to help you in approving new suppliers, addressing quality issues, confirming corrective actions, or performing reviews or maintenance as part of a supplier management process.

Testing and Certification for Equipment

At DEKRA, we assess equipment used in hazardous locations in order to ensure continued safe operation of equipment. We offer services for electrical and non-electrical equipment, autonomous protective systems, plants, equipment assemblies, dusts and service facilities in explosive atmospheres, as well as Personnel Competence and Training Certification. Our large portfolio enables us to combine Explosion Safety Testing with other services, such as Electrical and Functional Safety, Cyber Security and EMC, among others.

Welding Services

DEKRA welding experts ensure you meet the requirements established by recognized standards, directives and national legislations as well as individual customer specifications. Qualified personnel and welding procedures must often be approved by a notified body, recognized third party, or accredited certification body. We are your reliable and recognized partner, providing certification of your corporate processes, quality assurance systems and safety procedures.



Flexible Processes – ensuring adaptability and optimal performance

Strong process management ensures you are able to adapt to expected and unexpected changes in supply or demand, production fluctuations, or any other external factors that might impact your business. DEKRA expert services can help you make sure you are ready for anything that comes your way.

Advanced Non-Destructive Testing (NDT/Mechanized Inspection)

Advanced Non-Destructive Testing is used to examine materials and objects to locate and measure surface and subsurface defects without causing damage to the test item. Often used for inspection and remote or online monitoring during operation, Advanced NDT technologies minimize downtimes due to maintenance or repair to keep your facility up and running. Specific mechanized NDT solutions can be implemented to safely access confined spaces or contaminated environments to protect human health and save you time and money. Advanced NDT further provides a reliable and cost-efficient inspection of pipe girth welds.

Chemical Safety Advisory

Maintaining compliance with testing protocols, reporting mandates, product labeling, documentation requirements and legislative initiatives such as REACH can be an overwhelming task for both manufacturers and importers. Our chemical safety advisory team specializes in testing, classification, management and other services supporting companies seeking to comply with the hazardous substances regulatory framework.

Destructive Testing

Our legacy of conducting state-of-the-art materials testing in accredited laboratory facilities around the world ensures manufacturers and plant owners reliable results based on decades of engineering know-how.

Digital Health, Safety and Environment (HSE) Solutions

How we seek and use information about safety is critical to our ability to achieve results in safety. DEKRA delivers innovative IT solutions and platforms which enable organizations to manage, control and understand their data as well as uncover relevant trends in order to identify areas of improvement and minimize risk. DEKRA data collection and analytics solutions pair the experiential expertise of our research professionals with proven tools and methodologies.

Examination of Experts for Energy and Environment

Validation by an objective third party gives employees confidence in their skills and customers confidence that they have chosen the right partner. Accredited DEKRA personnel certification services span a wide range of requirements generally recognized on the international stage.

Examination of Experts for Occupational Health and Safety

Validation by an objective third party gives employees confidence in their skills, especially when it comes to the occupational safety of your employees. With our examination services you can be sure that your in-house experts can prove their expertise.

Explosion Safety

DEKRA supports you in fulfilling the safety requirements as described in the applicable European Directives and possible additional national legislations. As a European Notified Body, DEKRA tests, assesses and certifies according to the ATEX Directive 2014/34/EU, amongst others. Our experience and expertise combined with our pragmatic approach has made us one of the top 3 players in the world in this work field of ATEX and IECEx. Furthermore, we are a founding member of the globally acknowledged IECEx scheme, through which we provide services both as a certification body (ExCB) and as a testing laboratory (ExTL). With our VT 1000 Ex – Full HD Ex classified (Atex Zone 1 rated) inspection camera we can also support you with remote visual inspections in high-risk explosive environments.

Health, Safety and Environment (HSE) Management System

We help to ensure your ability to protect employee health and safety as well as the local environment. ISO 50001 certification improves energy efficiency with the introduction of an effective energy management system, while ISO 14001 certifies your environmental management system to demonstrate sustainable operation.

Health, Safety and Environment (HSE) Strategy and Management

Our HSE strategy consultants help companies design a roadmap for a comprehensive policy that promotes a safe and healthy workplace to protect your employees from preventable hazards. In addition to addressing compliance issues, DEKRA experts assist you in enhancing overall performance, reducing your environmental impact and creating a supportive corporate culture.

Mandatory and Voluntary Inspection for Lift, Machinery and Cranes

DEKRA experts provide comprehensive and customized support to ensure lifting equipment, cranes and other machinery meet all the necessary safety standards and regulatory obligations. Whether on-site, online, or from a remote location, we help you to optimize your workflow, reduce system downtime, increase safety and efficiency, and prolong service lifetime. Our technical competences related to machines and industrial equipment are available to you worldwide at the earliest project stages and throughout the life cycle of your asset.



Mandatory and Voluntary Inspection for Pressure Equipment

Based on decades of experience, DEKRA has developed a wide range of services to ensure compliance of potentially hazardous pressurized equipment such as filling systems for technical gases, hot water systems and steam boilers. We are your reliable and recognized partner, providing certification of your corporate processes, quality assurance systems and safety procedures.

Mandatory and Voluntary Inspections of Electrical Installations

DEKRA is a leading global provider of electrical installation inspections. Through comprehensive programs and reporting, our experts secure your electrical systems to ensure compliance, detect errors and minimize costs from the earliest planning stages. DEKRA operates as an accredited body or with specially authorized electricians to carry out mandatory initial and non-periodic inspections for the oil and gas sector.

Organizational Diagnostic, Assessment and Development

With our portfolio of tried and true diagnostic tools we strive to transform workplace culture, ensuring reliability and strengthening performance. We aim to optimize your organizational culture with improved safety, higher employee motivation and increased integrity along your supply chain. Our consultants utilize customized surveys, qualitative assessments as well as our specially designed assessment methodologies to help you choose the approach best for your company. Working closely with you, we enhance your safety approach through education, skills training, and in-the-field coaching and guidance to bring positive change to your enterprise and the entire logistics network.

Process Safety Consulting and Testing

For the risk identification, analysis, prevention and management of fires, explosions and accidental chemical releases, we provide impartial advice and recommendations. Our process safety testing services are carried out in state-of-the-art laboratories in accordance with local and international standards. Our trained specialists conduct the proper testing and expert analysis essential to preventing

fires, explosions or other disasters. We provide you the support you need to accurately recognize potential risk factors inherent to the handling, storing and processing of hazardous substances and to develop a robust and effective process safety management system.

Process Safety Competence Development

The DEKRA Process Safety Academy provides competence development programs in all areas of process safety. We incorporate various learning methodologies, including public courses and events, tailored in-house courses, e-learning and computer-based training and skills development programs.

Quality Management System

Reliable quality management based on ISO 9001 ensures high quality processes, products and services. A central feature is its risk-based approach, which identifies opportunities and risks, derives appropriate measures and evaluates their effectiveness. Certification according to ISO 9001 helps you implement a robust quality management system and efficient accompanying processes with which to achieve your desired results.

Second-Party Audits

Experienced auditors provide fast and efficient audits to help you in approving new suppliers, addressing quality issues, confirming corrective actions, or performing reviews or maintenance as part of a supplier management process.

Welding Services

DEKRA welding experts ensure you meet the requirements established by recognized standards, directives and national legislations as well as individual customer specifications. Qualified personnel and welding procedures must often be approved by a notified body, recognized third party, or accredited certification body. We are your reliable and recognized partner, providing certification of your corporate processes, quality assurance systems and safety procedures.

Skilled and Safe Personnel – establishing a qualified workforce

Making sure your employees and management personnel are well trained in diversified fields ensures optimal safety and performance throughout your company. DEKRA offers the comprehensive training and certifications your staff needs to succeed.

Ambient Measurements

DEKRA offers a wide range of services to assist trained company representatives in their efforts to create and maintain a safe workplace. We help remediate occupational health and safety (OHS) issues to protect workers. Our ambient measurement services assess factors such as indoor and outdoor air pollution, temperature, lighting, radiation, noise and vibration to determine any health risk to employees or negative impact on brand products.

Examination of Experts for Energy and Environment

Validation by an objective third party gives employees confidence in their skills and customers confidence that they have chosen the right partner. Accredited DEKRA personnel certification services span a wide range of requirements generally recognized on the international stage.

Examination of Experts for IT and Data Protection

To inspire trust in existing customers and attract new potential clients, it is essential to ensure information security throughout your IT systems, components, processes and personnel. DEKRA accredited personnel certification services span a wide range of internationally recognized requirements to give employees confidence in their skills and provide your customers the peace of mind knowing they have chosen the right partner.

Examination of Experts for Occupational Health and Safety

Validation by an objective third party gives employees confidence in their skills especially when it comes to the occupational safety of your employees. With our examination services you can be sure that your in-house experts can prove their expertise.

Examination of Experts for Quality Management

Effective and efficient strategies and systems as well as trained quality management experts ensure higher productivity and increased revenues. DEKRA accredited certification according to internationally recognized standards ensures your quality management personnel are up to the job of protecting your reputation.

First Aid Training

First Aid courses make sure your employees are well-prepared in case of emergency. Good practice for compliance as well as the health and safety at the workplace.

Health and Medical Advisory, Services and Examinations

Our trained and accredited team of specialists conducts physical, ergonomic and psychological risk assessments and provides practical solutions. These and other DEKRA services including coaching and training on health-related topics or travel medicine consulting can be customized according to your needs.

Human Performance Reliability and Mental Health

While advances in technology and their business applications receive ample attention, new discoveries in neuroscience that help us understand the human brain could also have a major impact on the workplace. Learning how to recognize and manage employee stress and how to support good decision making, for example, can lead to a more motivated and productive workforce. Our DEKRA experts have developed tools to help organizations harness the power of neuroscience in the service of optimal mental health. Through targeted assessments, recommendations and consultations, we help you maximize every employee potential.

Information Security Awareness Training

In order to sensitize personnel so that they are able to precisely identify and prevent cyber and social engineering attacks, DEKRA provides comprehensive information security awareness training. The course aims to inform employees of current threats, demonstrate your ability to protect your assets and teach staff how to react in actual risk situations.

Leadership Diagnostic, Assessment and Development

Effective leadership is a decisive factor in your company's success, influencing all aspects of operations and culture. Our consultants have developed an array of tools to support the development of valuable leadership skills. The DEKRA Leadership Diagnostic Instrument (LDI) and Leader Care Profile assessment measure leader strengths and weaknesses. SafeAlign™ and our Leading Safety Performance™ solutions, as well as our program on understanding major accident hazards, focus on how strong leadership can be used to optimize safety standards and practices in your business. Individualized coaching is also available as part of our comprehensive approach to helping leaders reach their ultimate potential.

Occupational Health and Safety Training

Wherever they work, employees should be able to perform their duties safely. Our DEKRA instructors address specific hazards in each respective workplace to provide comprehensive and effective occupational health and safety training to ensure your legal compliance and high safety standards.

Process Safety Competence Development

The DEKRA Process Safety Academy provides competence development programs in all areas of process safety. We incorporate various learning methodologies, including public courses and events, tailored in-house courses, e-learning and computer-based training and skills development programs.

Safety Advisory, Services and Coordination

Protect your employees from accidents and other hazards in the workplace and minimize the overall effort for your occupational safety measures by engaging with our safety specialists. Our experts help you reach your safety goals with a range of tailored

services including advisory, risk assessments, coaching and instructions/training, due diligence and on-site support. At construction sites and during shutdowns or turnarounds, we provide coordination and safety services related to all project phases, and with industries involving hazardous substances, we can share our expertise in proper handling, storage and transport.

Workforce Diagnostic, Assessment and Development

DEKRA has designed services to specifically evaluate your safety culture and engage your workforce at every level. Our experienced consultants help you implement behavior-based strategies that drive transformational change and enhance overall performance.

Digital Transformation – cost-effective strategies for added value

Digital technologies allow companies to improve customer interaction, reliably analyze data for better decision-making, implement flexible production management based on market volatility, optimize performance and increase profitability. Our DEKRA experts can help you develop a digital transformation strategy tailored to your particular circumstance and business objectives.

Chief Information Security Officer (CISO) Training

This DEKRA course provides a well-founded overview of the various information security standards needed to make tactical and operational decisions as a Chief Information Security Officer (CISO). It provides insights into legal and personnel aspects and addresses how to safely deal with outsourcing projects.

Data Protection Consulting

DEKRA experts keep you informed and help you to stay legally compliant and up to date when it comes to handling data. If you prefer more targeted expertise, we can provide the individualized support of a data protection officer to carry out services on-site and in close cooperation with your team.

Digital Health, Safety and Environment (HSE) Solutions

How we seek and use information about safety is critical to our ability to achieve results in safety. DEKRA delivers innovative IT solutions and platforms which enable organizations to manage,

control and understand their data as well as uncover relevant trends in order to identify areas of improvement and minimize risk. DEKRA data collection and analytics solutions pair the experiential expertise of our research professionals with proven tools and methodologies.

Information Security Management System Consulting

DEKRA cyber security consultancy follows up an analysis of your IT infrastructure with recommendations for the design and implementation of IT security management systems. We assess the specifics of your sector as well as your strengths and most pressing needs to establish or optimize an information security management system for your organization.

Information Security Risk Assessment and Management

No company is immune to cyber security risks and potential attacks. Our consultants carry out systematic network security analyses to determine your existing level of cyber security and help you develop an effective plan for improvement.

Process Safety and Functional Safety Consulting

DEKRA provides impartial process safety advice and recognized expertise for the risk identification, analysis, prevention and management of fires, explosions and accidental chemical releases. Most industrial processes rely on functional safety strategies to prevent health and environmental hazards and protect assets and facilities. We deploy a range of tools and methodologies to assess and verify the Safety Integrity Levels (SIL) of your Safety Instrumented System (SIS). Our DEKRA experts provide comprehensive support throughout the Safety Lifecycle and Safety Instrumented Functions (SIFs) evaluation, SIL Verification, Safety Requirements Specification (SRS) and Functional Safety Assessment (FSA).



Remote and/or online Monitoring and Digital Optimization Services

We offer services for remote and online monitoring to complement inspection services. Your main advantage will be the ability to get information about trends and foresee the potential issues, helping you prevent downtimes, increase efficiency and save costs. In addition, DEKRA uses state-of-the-art data management and analysis solutions to optimize workflows and processes. Our experts can e.g. help you implement VALTO 360°, an information management solution that virtualizes your operating and production environments into 360° interactive panoramas to facilitate oversight at any time from any location. Suitable for many different operating environments, VALTO 360° is

connected to an IoT platform to monitor important key figures and QR code labels to identify assets in the operational production environment. Users can also report data directly from the field via mobile devices. Specific information such as documents, pictures, instructions, video and more can be added to the images for easy viewing and updating. In addition, DEKRA uses state-of-the-art data management and analysis solutions to optimize your digital workflows and processes. These critical predictive services help to prevent downtime, increase efficiency and save you money. Furthermore, with our VT 1000 Ex – Full HD Ex classified (Atex Zone 1 rated) inspection camera we can also support you with remote visual inspections in high-risk explosive environments.

Complementary Services – ensuring comprehensive support

DEKRA experts can provide supplemental services to fill any gaps you may find to help you strengthen your overall business environment and performance.

Business Continuity Management System

Business Continuity Management (BCM) according to ISO 22301 enables you to quickly resume your business activities after critical events. DEKRA services follow the international standard which provides the appropriate framework and bundles the requirements for robust, effective business continuity management.

Business Resilience Impact Assessment (BRIA)

Effective business resilience depends on a strong corporate immune system capable of fighting off disruptive global events such as economic fluctuation, political unrest, natural disaster or infectious disease. Our experts conduct a multilevel impact assessment to help you implement and maintain reliable strategies to meet any challenge.

Expediting, Shop and Vendor Inspection of the Supply Chain

Acquiring new equipment and machinery can be timely, costly and risky. We carry out inspection and expediting services on your supplier's premises, verifying the quality of manufactured products or equipment and the reliability of delivery times.

Supply Chain Audits

Our comprehensive audits let you evaluate and ensure ethical, environmental and social compliance as well as process integrity and security throughout the entire supply chain. Our services include initial supplier audits and continuous monitoring, as well as helping you to decipher international, national and local regulatory requirements.

Sustainability Advisory and Services

Our experts show you how to maximize sustainability with solutions that respond to your needs. Focusing on sustainable practices, we evaluate policies and processes and provide solutions that improve the sustainability of clients' processes, products and services while maintaining efficiency and productivity. Whether compliance, education or corporate sustainability management, DEKRA is equipped to provide innovative, tailored solutions that help you reach your the sustainability goals.

Due to impartiality and independence requirements of regulatory authorities, services may have to be performed by different, mutually independently operating DEKRA units to ensure impartiality.

DEKRA
Handwerkstrasse 15
70565 Stuttgart
Germany
Phone +49.711.7861-0
Fax +49.711.7861-2240
info@dekra.com

www.dekra.com



On the safe side.