



OPTIMIZING THE OPERATION & MAINTENANCE OF THE WORLD'S ENERGY PRODUCING INDUSTRIES

www.dietsmann.com

SMART MAINTENANCE SOLUTIONS FOR CONTINUOUS PRODUCTION PLANT


Dietsmann
Maintaining Energy



DIETSMANN'S CORE BUSINESS: MAINTAINING ENERGY

Angola

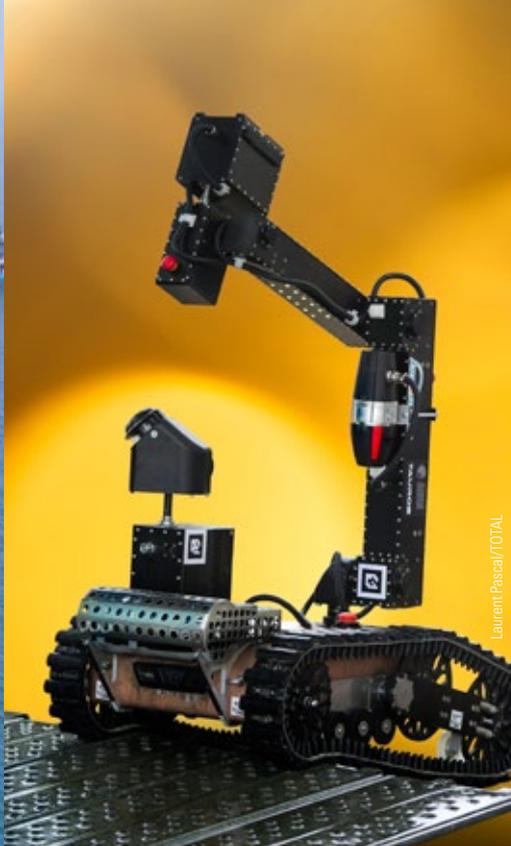
Dietsmann is the leading independent Operation & Maintenance specialist for continuous-production plant in the oil & gas, conventional and nuclear power generation and mining industries. Effective maintenance increases the up-time of your facilities, boosts operating revenue and extends the productive lifetime of your assets and thus reduces your capital expenditure.

Our core business is planning and managing the Operation & Maintenance of your assets to ensure safe performance and maximum availability for the minimum cost. Thanks to our ability to integrally consolidate, coordinate and manage all maintenance activities we have become a trusted, independent partner of major international and national energy companies and other clients who have chosen to focus on their core activities.

Our over 40 years experience of operating and maintaining hundreds of production facilities around the world has given us an unrivalled understanding of how, when and where to apply the most effective operational methods and specialist maintenance technology. Currently we

maintain an installed base of tens of thousands of different pieces of equipment and parts, for all production facility components, in multiple configurations all over the world.

This makes us the market leader. It also means we are experienced in working in the most extreme environments, from the Arctic to the Tropics, and from arid deserts to humid rainforests. And we know the effects products such as aggressive high-acid oil and sulphur gas have on plant, equipment and parts. By continuously analyzing this information and applying it in our Operation & Maintenance practices we ensure optimum performance at the lowest possible cost.



Dietsmann aspires to lead the way in maintenance optimization.

We believe that maintenance is one of the most important tools for optimizing production, ensuring health and safety and minimizing environmental impact.

INDEPENDENT SPECIALISTS

Dietsmann is entirely focused on the maintenance of upstream oil and gas, conventional and nuclear power production plants and mining operations and how the maintenance of these facilities can be continually improved. Dietsmann is a privately-held, independent company that does not manufacture spare parts or equipment and represents only the interests of its clients.

Most plants include equipment, such as gas turbines, compressors and instrumentation, produced by many different manufacturers. Rather than contracting each of these individual manufacturers to maintain and repair its own equipment, clients entrust the overall coordination and management to Dietsmann, which acts as an independent expert interface with all the Original Equipment manufacturers on their behalf.

Our unique business focus means we are often asked to provide independent advice on maintenance issues or carry out maintenance audits. Clients for these services include plant owners, plant operators and, because they too share an interest in ensuring effective and reliable long-term maintenance and asset integrity, organizations that provide financing or insurance cover for plants.



Russia

Dietsmann strives to not only fully master maintenance technology, but also to integrate it seamlessly into its clients' production objectives.

That is why, in 1986, Dietsmann was the first company to call its key services 'Operation & Maintenance'.

MAINTENANCE ENGINEERING

Maintenance is a complex task that involves analyzing the requirements, engineering the maintenance, planning, inspecting and finally managing the overall activity. Maintenance Engineering & Inspection is at the heart of this activity.

Often as early as during the engineering, procurement and construction phase of a new plant, we work hand in hand with asset owners to integrate their operational backgrounds, their specific knowledge of the installations and the geographical context. We then define optimized Maintenance Engineering & Inspection activities based on best practices, derived from our extensive plant Operation & Maintenance experience.

This ensures the optimum transfer of know-how and a smooth transition to the operational phase. We take care of documentation management, maintainability and inspectability studies, defining recommended spare parts and tools, procurement and warehousing, and maintenance and inspection plans and procedures. We also implement dedicated computerized maintenance management systems, which are updated over the plant's life cycle.



We are always responsive to client needs, innovative in our thinking and more agile than our larger integrated competitors.

This culture has earned Dietsmann the trust of its clients, with many of whom it has long-standing relationships. Our focus is on those industry sectors where efficiency gains, cost reduction and intelligent solutions to complex problems count.

CONVENTIONAL AND NUCLEAR POWER GENERATION SERVICES

Dietsmann has extensive experience of maintaining conventional and nuclear power generation installations within our clients' production facilities. Providing Operation & Maintenance services directly to Independent Power Plant owners, in the conventional as well as the nuclear market has, therefore, been a natural extension of its business.

Our project-specific solutions can range from the provision of the personnel, tools and processes for a facility, through to the plant's day-to-day operation and regular maintenance. Predictable Operation & Maintenance costs are aligned with the owners' revenue stream. Reducing operating risk often results in lower insurance premiums, and owners can rely on a dedicated single point of contact for all Operation & Maintenance matters.

Contract possibilities and service levels range all the way up to integrated Operation & Maintenance services and the management of a Power Purchase Agreement. The conventional and nuclear power generation installations we currently operate and maintain in Europe, Africa, Asia and South America include both Independent Power Plants and power plants owned by utility companies and add up to over 15 GigaWatts of gas and steam turbine-driven power units.



DIETSMANN **TECHNOLOGIES**

Dietsmann Technologies provides electrical and instrumentation engineering and construction services for continuous-production plant. In addition to supporting the Company's Operation & Maintenance projects, Dietsmann Technologies also serves external clients including (inter)national energy companies, major engineering, procurement and construction contractors and Dietsmann's joint-venture partners.

Electrical and instrumentation services include the design, construction and testing of electrical switchboards, marshalling cabinets, control cabinets and industrial process automation systems. HVAC and pressurization services include custom-designed industrial air conditioning and climate control systems. Dietsmann Technologies also services all our clients' spare parts, machinery, equipment, components and materials procurement and repair requirements.

Our technical shelters are installed at onshore and offshore oil and gas exploration and production sites, downstream refineries, conventional and nuclear power plants, mines and other industrial sites all over the world.



Laurent Pascal/TOTAL



Photo courtesy of Taurob

TRAINING & ROBOTICS EXPERIMENTATION FACILITIES

The Dietsmann Qualification College in Boussens, France, provides customized training and qualification programs for the Oil & Gas, Power Generation and Mining industries as well as other industrial sectors. The 1,000 m² of training area includes 500 m² of workshops equipped with all the relevant maintenance instruction materials plus a dedicated, fully-equipped metrology simulation/instruction room.

Special robotics technology experimentation and testing facilities have also been created in the College. Within the foreseeable future the tasks for which robots may be used in the industrial and petrochemical sector may include Non-Destructive Testing during regular inspections of pressure vessels, storage tanks and larger diameter piping, and the cleaning of equipment at less-accessible locations.

As robots can be controlled remotely and manoeuvre 'independently', they may be used to perform various tasks on unmanned platforms or in specific circumstances. Robotics applications also include the use of drones for

inspections of larger vessels and heat exchangers, flare systems and piping. These developments will be instrumental in enabling the oil & gas industry to work more efficiently and effectively.

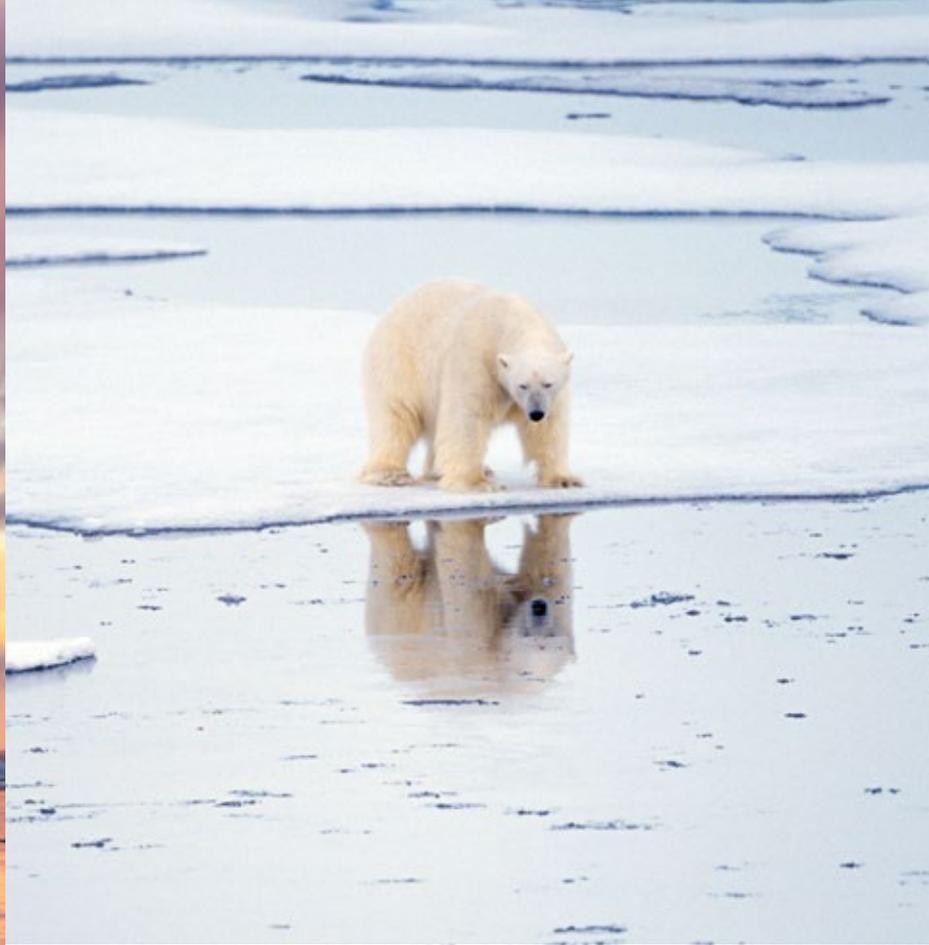
The application of Augmented Reality (AR) and Virtual Reality (VR) is also increasing in the industry. New AR and VR training tools enable the required quality level to be achieved in safe conditions. A great benefit to Health, Safety, Social, Security, Environment and Quality (HSEQ). They are also prime examples of technology that supports changes in the day-to-day working environment and, in particular, in staff training.



RESPONSIBLE MAINTENANCE FOR A SUSTAINABLE FUTURE

Good maintenance is good for the environment. For example, optimum maintenance planning can substantially reduce the gas flaring associated with shutdowns. Many leaks and accidents that have caused human suffering and environmental damage could have been avoided with effective and professional maintenance. Maintenance is more than repair. It is an expert activity built on accumulated experience, analysis and state-of-the-art techniques.





Dietsmann aims to enhance the development of its clients' rich natural and human resources in an economically, socially and environmentally responsible way.

Our ambition is to run our business and develop new opportunities in an environmentally and socially responsible way. Maintaining power facilities around the world has enabled Dietsmann to build-up a huge empirical database of parts, equipment, maintenance routines and failure analyses. Our highly trained engineers and technicians ensure the safe and optimized availability of production plant. We believe this is the best environmental practice a plant owner can rely on.

We always aim to meet our stakeholders' highest levels of expectation in respect of Corporate Social Responsibility (CSR) and sustainability. We adhere to the principles of integrity, respect, loyalty, efficiency and transparency laid down in our Business Code of Conduct & Ethics Policy and we are a signatory to the United Nations Global Compact - the world's largest corporate citizenship and sustainability initiative.

Respecting human rights and providing sustainable and fair employment, training, and career development opportunities is part of the Dietsmann DNA. By providing opportunities for nationals of the countries in which we operate we benefit not only our local employees, but also their families and local communities and economies. We are proud of our outstanding record in protecting the health and safety of everyone affected by our activities.



COMMITMENT TO THE HIGHEST HSEQ STANDARDS

The cost of effective, professional maintenance is a tiny fraction of the cost of incidents due to postponement or poor execution. This is measured not only in terms of lost production and shareholder value, but also of poor health, injuries, lost lives, damaged equipment and harm to the environment. Our number-one priority is, therefore, to carry out our activities without accident or incident.

To ensure our staff know their HSE responsibilities and duties and master HSEQ tools we have implemented our own Safety Culture program and the Dietsmann Quality Culture program. Employees are trained to work safely and encouraged to participate in the continuous improvement of HSEQ performance. Together with our clients we set HSEQ performance indicators, which are measured and benchmarked against the best international standards.

Besides the obvious financial benefits of increased plant availability, reduced operating costs and extended productive asset life, we offer our clients greater flexibility in the human resources area. We can improve personnel utilization while dramatically reducing your expatriate costs.

We provide a safe and healthy workplace, with high standards of occupational hygiene, for all our employees.

We are committed to reducing the environmental impact of our clients' plant and our own activities. We minimize waste production by using resources and materials efficiently. We promote recycling, dispose of waste materials in an environmentally responsible manner, reduce polluting emissions to a practicable minimum and strive to continuously improve methods for identifying, assessing and controlling environmental impact.



RESPONSIBLE EMPLOYMENT

We are a substantial employer in the countries in which we are active, and we take this responsibility very seriously. The Dietsmann culture stresses dedication, pride and respect and we are strongly committed to training and development. We have been present for more than 30 years in Nigeria, Angola, the Republic of Congo and Gabon, and we are proud to work with thousands of highly-motivated and well-trained local staff, some of whom have been promoted to senior management positions. In our operations in Europe, Africa, Asia and South America, we strive for 100% local employment in our maintenance organization.

A TRUSTED MAINTENANCE PARTNER

Dietsmann consistently focuses on its core business and aims to be the long-term trusted maintenance partner of plant owners and operators, rather than just 'a contractor'. Our Operation & Maintenance contracts represent mutually beneficial long-term partnerships in which we share the economic risks of the production process through incentive schemes that make cost reduction a mutual business opportunity.

We typically establish integrated project teams comprising both our own and our clients' personnel. To further align mutual objectives, we agree on a comprehensive range of key performance indicators, including production, reliability and availability, cost reduction and HSEQ management. By maintaining our focus on stability, sustainability, continuity and reliability we are able to deliver unrivalled results to our partners, year after year.



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