

MAINTAINING POWER

GLOBAL MAINTENANCE FOR NUCLEAR POWER PLANTS

www.dietsmann.com

SMART MAINTENANCE SOLUTIONS FOR NUCLEAR POWER GENERATION


Dietsmann
Maintaining Energy



MAINTENANCE SERVICES FOR NUCLEAR POWER PLANTS

For over 40 years Dietsmann has provided global maintenance services to the oil & gas and energy industries and major international and national companies have entrusted Dietsmann with the maintenance of their production facilities. The Company's area of maintenance expertise includes not only upstream oil & gas production facilities, conventional power generation plants and mining installations, but also nuclear power plants.

In the nuclear sector, Dietsmann positions itself as a Technical Support Organization, providing Integrated Maintenance services throughout the life cycle of the nuclear power plant, from the preparatory phase to decommissioning.



OUR STRATEGY

Dietsmann is an independent provider of Operation & Maintenance services to power plant owners and owners/operators of continuous-production plant in the oil & gas, conventional and nuclear power generation and mining industries. Our independence from OEMs and engineering and construction companies ensures the integrated Operation & Maintenance of clients' assets free of any conflict of interest with regard to overhauls, upgrades or modifications.

PROJECT-SPECIFIC SOLUTIONS

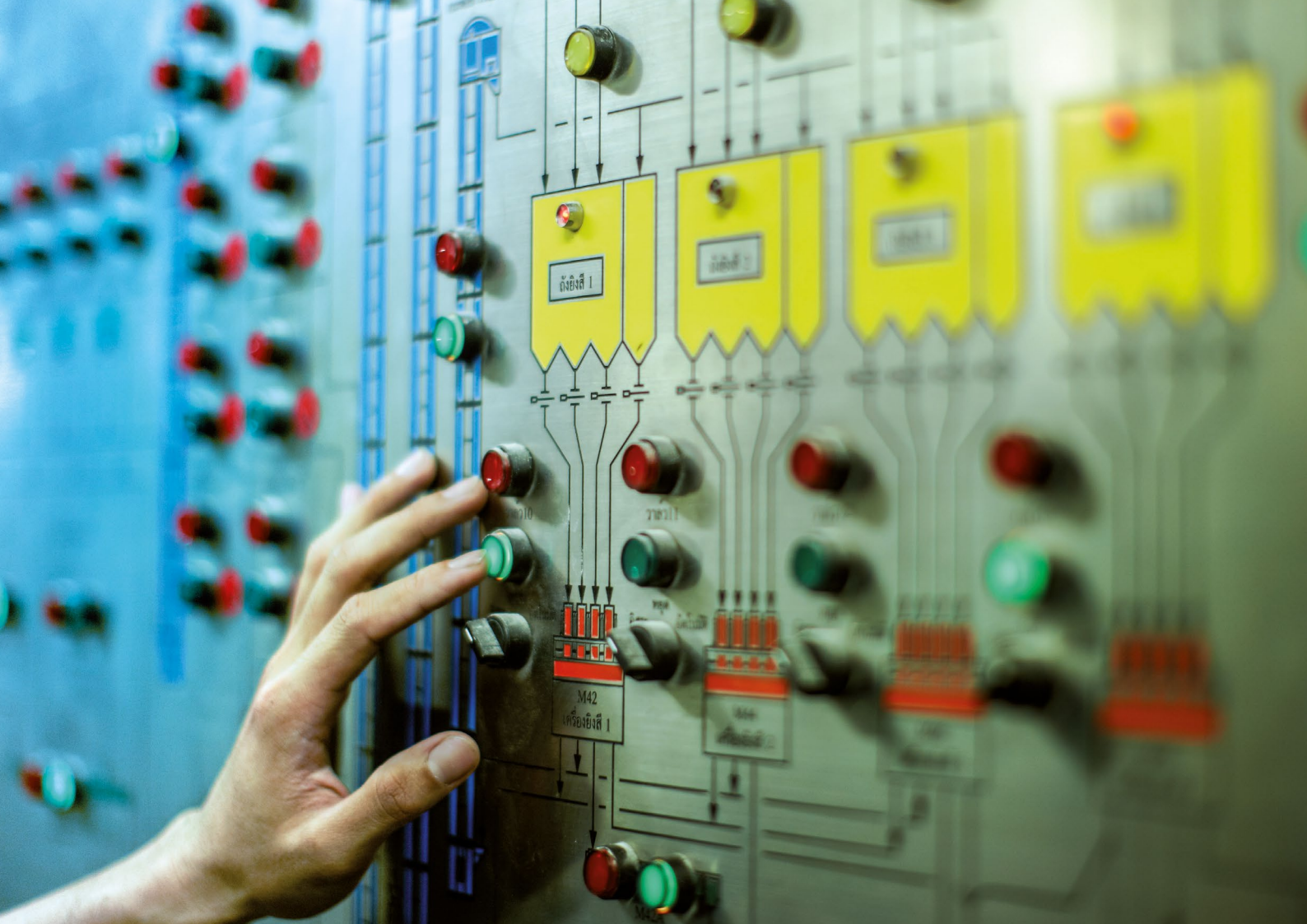
The nuclear power generation facilities and power plants we maintain are owned by governments or public institutions. We offer a range of service packages tailored to clients' specific needs and assets. Many of our services can be provided on a fixed-cost basis.

OUR ADDED VALUE

We enable our clients to focus on their core competences and requirements by providing them with a single dedicated point of contact for all maintenance, while ensuring costs are aligned with their revenue stream. This reduces their operating risks, which often results in reduced insurance premiums.

OUR CONTRACT OFFERINGS

We offer a range of contract options associated with various levels of service for nuclear power generation facilities. The most comprehensive level is the provision of client-specific A-Z Integrated Maintenance.



COMPREHENSIVE, INTEGRATED MAINTENANCE SERVICES

Dietsmann provides clients with a permanent contract organization. The Company's Integrated Maintenance activities comprise services throughout the life cycle of the nuclear power plant, from the preparatory phase to decommissioning.

PRICING SYSTEM

The pricing system for Integrated Maintenance contracts generally comprises lump-sum payments for mobilization, demobilization and additional services, such as major equipment inspections, plus a fixed monthly fee for the permanent organization. Spare parts procurement and the provision of some other additional services, such as laboratory analysis, are usually paid on a reimbursement basis. The majority of contracts include an incentive and

penalty scheme and a set of guarantees. The incentive/penalty scheme may be based on service and operational KPIs, plus additional penalties associated with an agreed schedule for mobilization and the replacement of key personnel. The operational guarantees are generally based on our client's operating obligations on a 'Back to Back' basis and usually cover availability (including forced and scheduled outage hours) and capacity.



OUR SERVICES FOR ANY STAGE OF THE LIFE CYCLE OF A NUCLEAR POWER PLANT

PREPARATORY PHASE

- Program planning, mobilization of organizations and national infrastructure
- Participation in preparation of the site and the assembly of equipment

IMPLEMENTATION PHASE

- Project scope, bid, negotiations, contract, design
- Participation in preparation of the site and the assembly of equipment

CONSTRUCTION AND COMMISSIONING PHASE

- Activities related to Round-one sector equipment and Ventilation & Air Heating systems equipment
- Activities related to Round-two sector equipment (suspension systems, flange joints; the production and installation of various types of service platforms; equipment for the nuclear fuel cycle and bypass lines)

- Activities related to the Maintenance of the Block Equipment sector
- Activities related to the Fire Protection Systems sector
- Activities related to the Electric Power Equipment sector (repairs of reactor-precipitators, mechanical sand filters, replacement of valves and pipelines, pipe passages, mufflers, stoppers and other types of fitting)
- Construction of facilities for the treatment of low and intermediate radioactive waste, and plasma treatment plant in connection with the decommissioning of nonoperational units

NUCLEAR POWER REFERENCES

The Dietsmann Group has several references in the European nuclear power generation sector.

Bulgaria: in 2017 DietsmannEnergoremont was formed after Dietsmann acquired 97.5% of the shares of Energoremont Holding JSC - the largest maintenance company in Bulgaria with over 40 years of experience in the nuclear and conventional power sector in the Balkan Peninsula and Eastern Europe. **France:** Dietsmann has been working on ITER since 2018. ITER is one of the most important energy projects of our time.

BULGARIA

Dietsmann Energoremont Holding JSC is a member of the Bulgarian Atomic Forum and Bulgarian Industry Chamber of Energy.

The company has licenses for:

- Use of ionizing radiation sources for economic activities
- Non-destructive testing with radiological methods - Series O registration N° 5448

Its certificate of accreditation as a certified authority control type C, BAS N° 257, has been issued by the Bulgarian Accreditation Service and was accredited according to BDS EN ISO / IEC 17020: 2012.

The accreditation scope entails the control of:

- Metal products such as seamless pipes, rolled products, forgings, castings, welded joints and structures produced by the client, hoisting and lifting equipment, pipelines, vessels under pressure and tanks, turbines and boilers for low and high pressure
- Gas equipment and installations for liquefied hydrocarbon gases through:
 - Gamma control method
 - Ultrasonic control method
 - Ultrasonic control of the wall thickness
 - Magnetic powder control method
 - Control using penetrating liquid
 - Brinell hardness control
 - Visual control

The Dietsmann Group has gained experience by providing a whole range of services for the Kozloduy and Belene NPPs for over a decade.

These services have included:

For Kozloduy NPP

- Reconstructing the deactivation work station in the Waste Workshop Unit
- Reconstructing the Unit 5 and Unit 6 drainage system
- Repairing the Unit 6 auxiliary and service structures and platforms
- Designing and constructing a repository for the dry storage of spent nuclear fuel
- Participating in the overhaul of Units 5 and 6, including carrying out tasks on the main and auxiliary equipment and systems and improving the equipment related to the safety systems and the reliable electric power production systems
- Repairing pumps in the Bank Pump Station

For Belene NPP

- Site preparation activities
- Steel structure activities for the reconstruction of existing buildings and structures
- Equipment preservation



FRANCE

Dietsmann has worked on ITER since June 2018. ITER is an international energy project in which 35 nations are collaborating to build the world's largest tokamak - a magnetic fusion device designed to prove the feasibility of fusion as a large scale and carbon-free source of energy based on the same principle that powers our sun and other stars.

Dietsmann has a General Services Contract with the ITER Organization which encompasses:

- Multi-technical construction & maintenance works (electricity, mechanics, HVAC)
- The design, supply and installation of a temporary electricity network
- The preservation of all the equipment delivered to the ITER Organization
- Equipment supply
- The management of contracts such as Industrial Cleaning, Waste Management and Firefighting Equipment

OVERVIEW OF REFERENCES WORLDWIDE

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