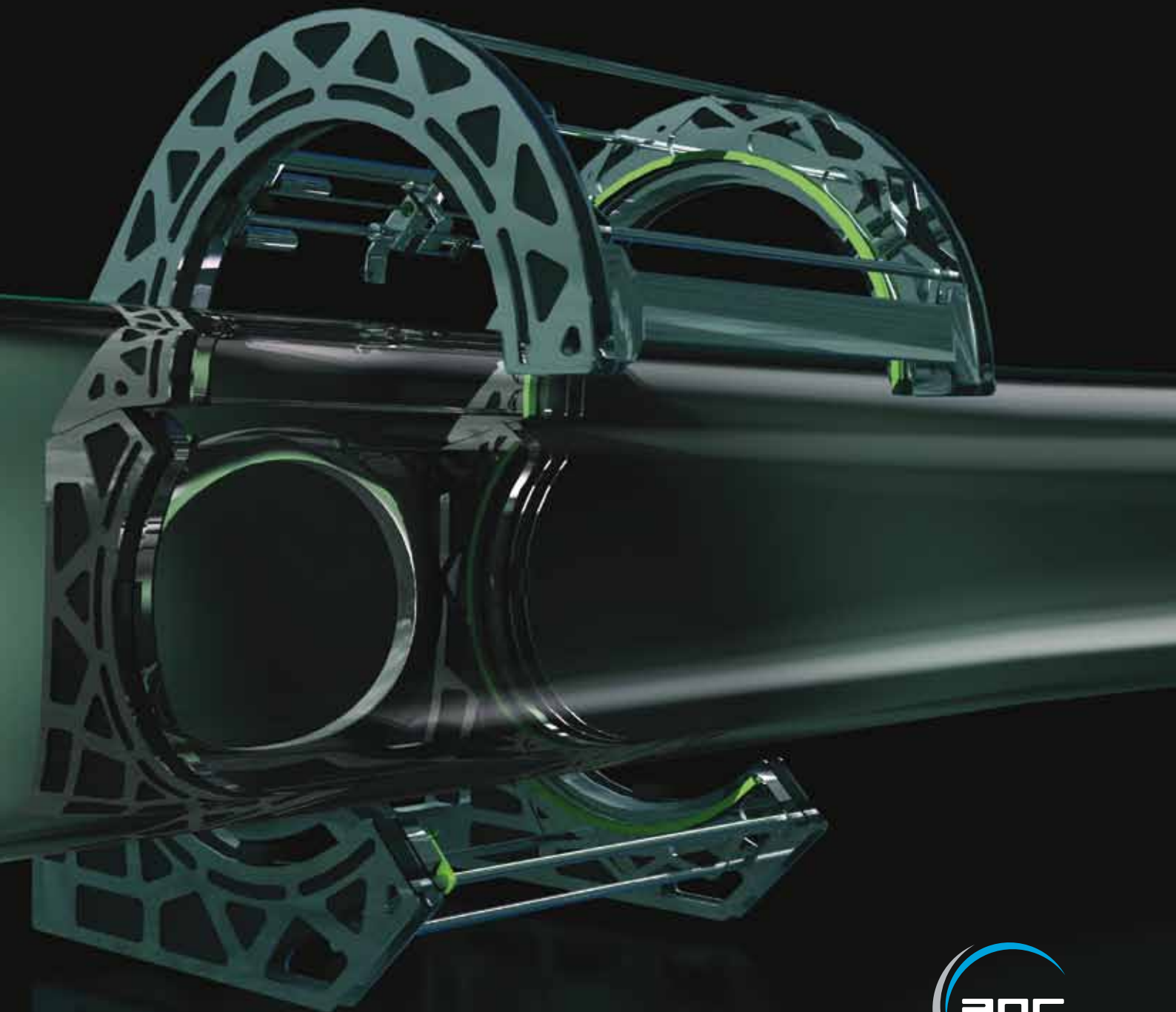


AGR FIELD OPERATIONS

INSPECTION & INTEGRITY SERVICES
MAINTENANCE MANAGEMENT
OPERATIONS & MAINTENANCE
PROJECT MANAGEMENT & ENGINEERING
SUBSEA SERVICES
ALTERNATIVE ENERGY
ULTRASONIC TECHNOLOGIES



FIELD OPERATIONS

AGR FIELD OPERATIONS PROVIDES A WIDE RANGE OF SERVICES TO A GLOBAL CUSTOMER BASE IN THE OIL AND GAS INDUSTRY, AS WELL AS TO OTHER SECTORS INCLUDING POWER UTILITIES, NUCLEAR, MARINE, AND FOOD PROCESSING. WE SUPPORT BOTH OPERATORS AND ASSET OWNERS WITH EXPERTISE AND KNOWLEDGE, COMBINED WITH INNOVATIVE METHODS TO MAXIMISE EFFICIENCIES AND PROFITABILITY.



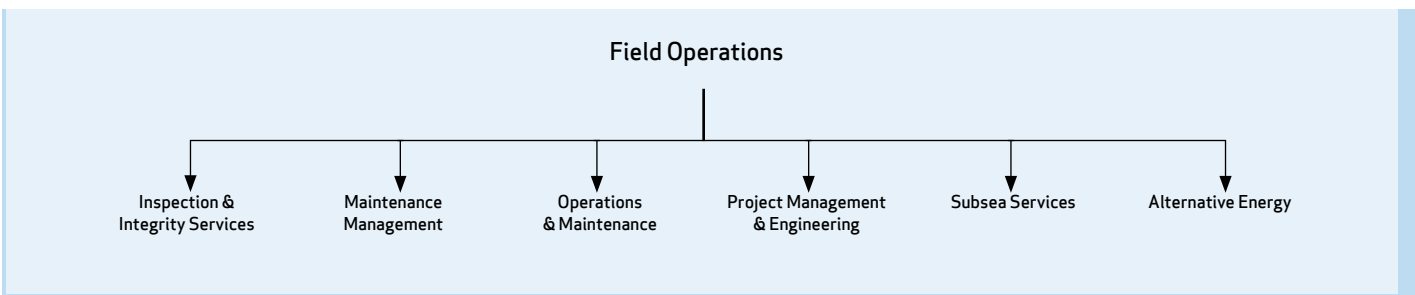
AGR Field Operations inspection techniques are among the most advanced and cost-effective in the industry, using state-of-the-art ultrasonic technology combined with sophisticated data transmission and storage facilities. Our subsea division has proven experience in high-performance asset management. We offer a total managed service from design to the operation of subsea production equipment, including trees, manifolds, flow lines and control umbilicals.

Our goal is to continuously improve client business performance in conjunction with technical, administrative and regulatory interface services on a fully-managed or integrated basis during the life-cycle of the asset.

technology and engineering solutions for equipment and plant integrity, inspection, maintenance management, operation and subsea services. All our solutions are designed to support best practice for our wide range of global customers.

We have earned a reputation for providing highly competent and experienced teams of engineers, technicians, supervisors and managers, who combine rigorous professional skills with outstanding service levels. We pride ourselves on strictly upholding personnel safety, equipment integrity and production levels.

To achieve this, we provide unique



INSPECTION & INTEGRITY SERVICES

AGR FIELD OPERATIONS FOCUSES ON REQUIRED MANAGEMENT SYSTEMS, PROCEDURES AND ACTIVITIES TO ATTAIN AND MAINTAIN PRESCRIBED LEVELS OF TECHNICAL INTEGRITY. ON BEHALF OF OUR CUSTOMERS WE CAN ACT EITHER AS A PROVIDER OF TECHNICAL INTEGRITY AND INSPECTION SERVICES OR AS AN EXTERNAL DEPARTMENT FOR ENSURING OVERALL TECHNICAL INTEGRITY.

Over time, all equipment and structures suffer degradation. The prime objective of our service is to ensure the integrity of equipment and assets in a safe manner while avoiding unplanned downtime and protecting production schedules.

By improving the quality of processes and inspection methods, we challenge existing inspection protocols by using new technology, tools and services. One example is our groundbreaking non-intrusive inspection of piping and structures. This technology is proving highly successful in a market where the reduction of production stoppages is a top priority.

INTEGRITY MANAGEMENT

Integrity management can be defined as a comprehensive program designed to aid our clients in managing their operations safely. The standard applies to all stages of the design and Capital Value Process (CVP). We can assist with:

- Integrity engineering
- Inspection strategy
- Vibration solutions
- Materials laboratory

SPECIALISED TECHNOLOGY

We use state of the art ultrasonic technologies developed in-house combined with internal propulsion systems that allow one-way access to piping infrastructure. Our areas of expertise include:

- Internal pipeline inspection
- External pipeline inspection
- Non-intrusive inspection (NII)
- Laser video inspection
- Tubing and flange inspection

INSPECTION SERVICES

AGR Field Operations is committed to provide our customers with the most cost-effective, appropriate, reliable

and high quality inspection available. This is done through enhancing existing inspection systems and exploring new technologies available. Our inspection services include:

- Risk services
- Non destructive testing (NDT)
- Verification, testing and certification of lifting equipment
- In-service inspection

Ultrasonic inspection using TD Handy-Scan®



PIPELINE INSPECTION

OUR STATE-OF-THE-ART ULTRASONIC TECHNOLOGY DEVELOPED BY AGR FIELD OPERATIONS ENABLES OUR ENGINEERS TO DETECT INDICATIONS OF CORROSION, CRACKS OR IMPERFECTIONS BEFORE PROBLEMS ESCALATE INTO FAILURES.

Weldscan pipeline inspection tool



state-of-the-art weld inspection. AGR Neptune is designed to adapt to any ROV and does not require a dive support vessel (DSV).

AGR NEPTUNE BENEFITS:

- Reduction of costs by approximately two-thirds
- Does not rely on divers
- Extension of operating depth up to 6,000 metres (20,000 feet)

AGR NEPTUNE CAN ASSIST WITH ACTIVITIES IN AREAS INCLUDING:

- Inspections of subsea risers
- Inspections of pipelines and manifold piping
- Pigging inspection activities
- Visual subsea inspections
- Pre hot-tap integrity control

Our intervention has prevented potential leaks in North Sea pipelines on a number of occasions. The current industry focus on pipeline integrity and the potential for environmental disasters has brought AGR Field Operations leading edge inspection technology to the forefront.

INTERNAL PIPELINE INSPECTION:

- High-resolution inspection and reporting of pipe wall loss
- High-resolution inspection and reporting of weld defects
- Setting inspection parameters
- Detailed analysis and post processing
- Collecting of wall thickness measurements
- Write-up of case studies

EXTERNAL PIPELINE INSPECTION:

AGR Neptune is a versatile and unique ROV mounted subsea piping inspection tool which provides a platform for high resolution wall thickness mapping and

AGR Neptune ROV subsea piping inspection tool



ULTRASONIC TECHNOLOGIES

WE DESIGN, DEVELOP AND MANUFACTURE COMPACT, RELIABLE, ADVANCED AND MULTI-FUNCTIONAL ULTRASONIC SYSTEMS. OUR EASY-TO-USE WINDOWS® XP BASED SOFTWARE PROVIDES A FULLY INTEGRATED TIME OF FLIGHT DIFFRACTION, PULSE ECHO AND PHASED ARRAY CAPABILITY IN OUR TOUGH, FEATURE-RICH PORTABLE ULTRASONIC ACQUISITION UNITS.

Ultrasonic inspection



OUR PRODUCT RANGE INCLUDES:

- *TD Focus-Scan®*
- *TD Handy-Scan®*
- *TD Scan*
- *TD Pocket-Scan®*
- *TD Pocket-Amp*
- *Corrosion Mapping Kit*
- *Probes & Spares*
- *TD Scan Advanced Ultrasonic Software*

OUR ADVANCED ULTRASONIC EQUIPMENT IS REPRESENTED IN A WIDE RANGE OF INDUSTRIES AND APPLICATIONS, INCLUDING:

- *Oil platforms*
- *Refineries*
- *Subsea and overland pipelines*
- *Nuclear industry*
- *Aerospace factories*
- *Education & research institutions*

Whether used in phased array, TOFD or corrosion mapping/pulse echo applications, our systems will perform to the most demanding requirements. Through our commitment to research and development, we stay at the forefront of technology by continuing to design and manufacture new and innovative products.

OPERATIONS & MAINTENANCE

WE COST-EFFECTIVELY OPERATE, MAINTAIN AND PROVIDE MANAGERIAL AND TECHNICAL SUPPORT TO OUR CLIENTS PRODUCTION FACILITIES. OUR COMPETITIVE ADVANTAGE IS OUR ABILITY TO MAINTAIN AN OPERATIONAL CULTURE WHERE RISK IDENTIFICATION AND IMPROVEMENT ARE EMBRACED AS A TOP PRIORITY UNDER A WORLD CLASS INTEGRATED MANAGEMENT SYSTEM.

We can provide full turnkey operations and maintenance services or tailor our services to meet client requirements and work seamlessly within an operator's organisation. We pride ourselves in maintaining AGR values wherever we work across the world.

AGR operates a comprehensive Integrated Management System

(IMS). The IMS elements are aligned with regulatory guidelines for the development of offshore safety cases and onshore operations plans. It also embodies the requirements of ISO 14001 for the development of environmental management systems, OHSAS 18001 for Health and Safety and ISO 9001 for Quality. We provide specialists and systems to assist

operators to comply with the legislated requirements relating to Technical Integrity.

We offer comprehensive training consulting services based on the systems we use in our operations. Our training consultants are well versed in industry Learning and Development, as well as legislative training requirements.





LOGISTICS, PROCUREMENT AND CONTRACT MANAGEMENT

In support of client operating facilities we can provide a comprehensive logistics, procurement and contract management service. Typical activities we undertake on behalf of operators include:

- *Tendering*
- *Procurement and purchasing*
- *Supply boat operation and auditing*
- *Helicopter operation*

ENGINEERING AND MARINE SERVICES

Our organisation comprises discipline engineers in mechanical, civil, structural, electrical, controls, drafting, marine &

naval architecture. We have a wide range of engineering capabilities to support client operating facilities.

COMMISSION, OPERATE & MAINTAIN FACILITIES

We commission, operate and maintain a wide range of facilities for our clients. Typical plants we operate include:

- *Production and injection wells, dry and subsea wellheads*
- *Oil and gas processing and stabilisation*
- *TEG/MEG processing*
- *Chemical injection*
- *Water treatment*
- *Water injection*
- *Gas compression*

- *Power compression*
- *Oil, gas and condensate storage*
- *Oil and gas pipelines*
- *Offshore oil loading*
- *Ship utilities*

Iona Flare



MAINTENANCE MANAGEMENT

WE PROVIDE OUR CLIENTS WITH A TOTAL MAINTENANCE MANAGEMENT SOLUTION IN ONE INTEGRATED PACKAGE. OUR FOCUS IS TO TAILOR OUR CLIENTS COMPUTERISED MAINTENANCE MANAGEMENT SYSTEM TO DELIVER SUPERIOR PLANT PERFORMANCE IN THE FUTURE.

OUR SOLUTIONS ENSURE IMPROVED BUSINESS INTEGRATION AND OVERVIEW IN A COST-EFFECTIVE WAY. THIS HAS SEVERAL BENEFITS:

- *Reduction of total cost to the owner*
- *Cross-departmental cost efficiency*
- *Superior overview and understanding*
- *Elimination of redundant tasks*

Assessments of plant design and the impact on future plant production performance is essential in securing profits. We develop the maintenance management systems required for safe and professional operation. This enables us to contribute to improved business results and a very high standard of technical integrity during all phases of an installation's lifecycle.

OUR TOOLBOX INCLUDES:

- *Criticality and risk evaluations*
- *Developing preventative maintenance programmes*
- *Provision of failure reports*
- *Setting in place coating and insulation maintenance programmes*
- *Managing technical safety*
- *Writing spare parts requirements*
- *Developing management systems for technical documentation*
- *Support of programme updates and optimisation*
- *Assessment of performance*
- *Assessment of KPIs*
- *Managing audits*
- *Consultancy of business processes*
- *Monitoring performance*

Our staff is made up of more than 90 specialists, making us one of the world's leading groups within our area of operation. We supply programmes and plans for Computerised Maintenance Management Systems (CMMS), ensuring that operators and maintenance staff receive work orders and maintenance plans prior to plant start-up. On established systems, our technical expertise allows us to refine the existing maintenance tasks to deliver a superior system which can deliver better production up-time at a lower cost.



PROJECT MANAGEMENT & ENGINEERING

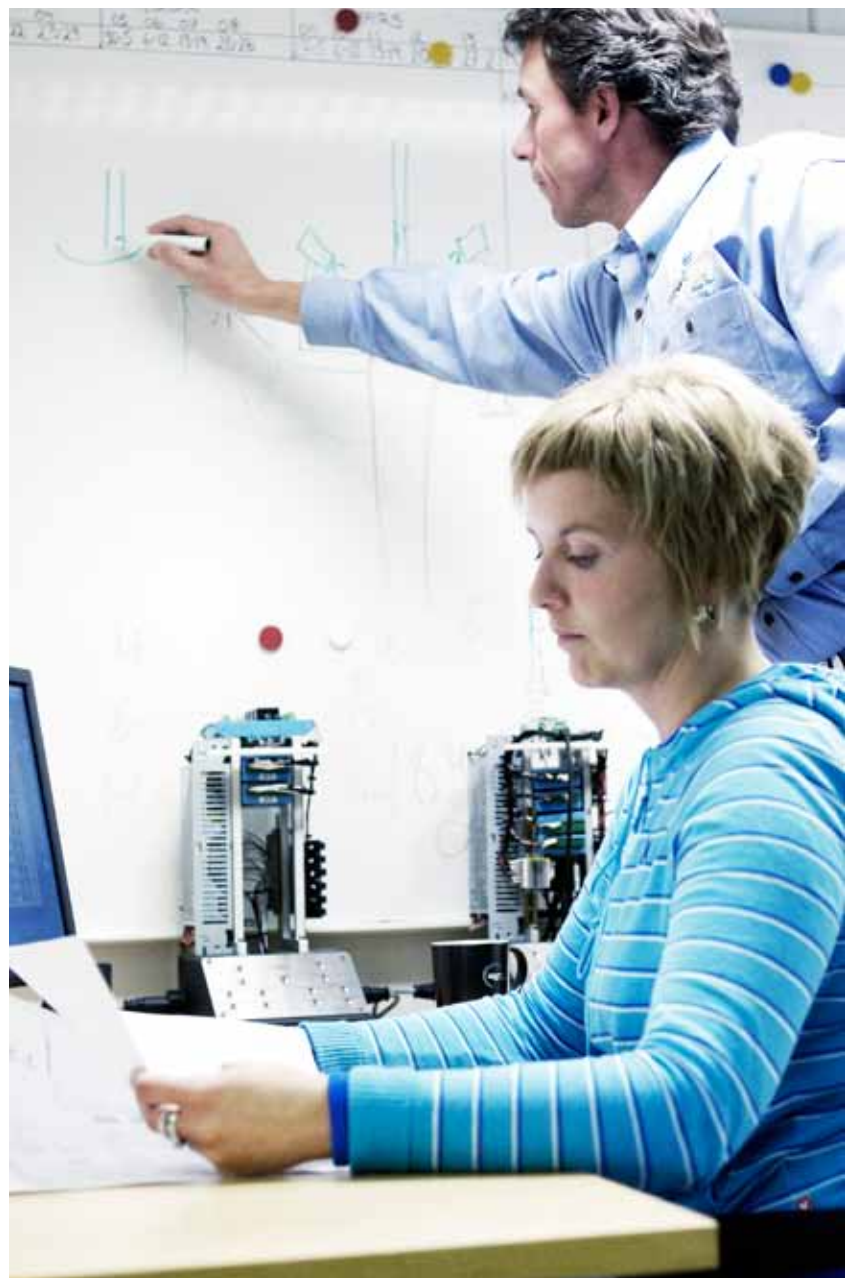
PROJECT PROMOTERS DEPEND ON SEVERAL PROJECT PARTNERS INCLUDING CONSULTANTS, ARCHITECTS AND CONTRACTORS TO CONVERT THEIR CAPEX PLANS INTO REALITY. AMONG THE PROJECT PARTNERS, EPC (ENGINEERING, PROCUREMENT AND CONSTRUCTION) CONTRACTORS PLAY A CRUCIAL ROLE IN THE IMPLEMENTATION OF PROJECTS.

Our consultants can handle all types of projects from early phase conceptual development, major development, and modifications to removal and decommissioning.

We are proficient in the operation of all standard project management tools. We can assist in selecting project management tools and the development of models and strategies for project management in your company. We have no agency agreements or alliances with any particular project management software.

WE COVER ALL DISCIPLINES IN THE FIELD OF PROJECT MANAGEMENT INCLUDING:

- *Planning*
- *Resource management*
- *Estimates*
- *Cost management*
- *Change management*
- *Uncertainty management*



SUBSEA SERVICES

WE ARE A LEADING INDEPENDENT SUPPLIER OF SUBSEA SERVICES, WITH WORKSHOP FACILITIES SPECIFICALLY DESIGNED FOR THE MAINTENANCE OF SUBSEA EQUIPMENT FOR MAJOR PROJECTS.



Buoyancy Module Installation



Subsea trees

We have an experienced team of service technicians, engineers, supervisors and managers to provide hands-on support in well services and subsea systems. Our team can design, procure and install subsea production systems including well completions, trees, flow lines, pipelines, umbilicals and manifolds. We also offer equipment on lease for maintenance, inspection and testing of subsea and down hole completions.

WE HAVE THE EXPERTISE TO SUPPORT CUSTOMERS IN THE FOLLOWING AREAS:

- Subsea project engineering
- Front-end engineering and design (FEED)
- Detailed design
- Equipment specification and procurement
- Factory acceptance test (FAT)
- System integration test (SIT)

- Well intervention and abandonment
- Installation, engineering and services
- 3D Modelling
- Feasibility studies, HAZOP and HAZID
- Structural engineering
- Subsea control and HPU
- NORMS management

ALTERNATIVE ENERGY

WITH OUR CORPORATE VISION OF BRINGING ABOUT A BETTER TOMORROW, WE SEE THE ALTERNATIVE ENERGY SECTOR AS INTEGRAL TO OUR BUSINESS. WHILE WE RECOGNISE THAT MOST ALTERNATIVE ENERGY TECHNOLOGIES ARE STILL IN THE CRITICAL PHASE OF PROVING COMMERCIAL RELIABILITY, OUR KNOWLEDGE GAINED FROM OUR CORE ACTIVITIES IN THE OIL AND GAS SECTOR ALLOW US TO PROVIDE INNOVATIVE AND PROFITABLE TECHNOLOGICAL SOLUTIONS TO OUR CLIENTS.

GEOSEQUESTRATION

Geosequestration (or geological carbon storage) is one of the main paths for the reduction of carbon dioxide emissions from fossil fuel fired electricity generation. AGR Field Operations is involved in the implementation, operations and management of this technology for our clients.

WAVE ENERGY

AGR Field Operations offers expertise in project management, operations and maintenance (O&M), and subsea services to wave energy companies. Through our project management expertise we can help integrate all the disciplines involved in wave energy and provide value-added engineering services to help manage the costs of projects and technology.

GEOTHERMAL SYSTEMS

Geothermal systems are going through a phase of demonstrating technical and commercial viability. We bring expertise in engineering, well design, project management and drilling management to provide cost effective outcomes for project proponents.

COAL MINE DEGASIFICATION

We bring discipline in the design and project management of coal mine degasification through our existing quality and safety systems, as well as our facilities engineering

expertise to clients for whom this is not a core competency.

COAL SEAM GAS COMMERCIALISATION

We bring our expertise and systems to the commercialization of coal seam gas to help project economics by managing initial field development costs and optimizing well completions so that

long term production and economics are understood and controlled.

ALTERNATIVE ENERGY CONSULTING

We offer concept development, concept engineering, technical consulting, project management and economic modelling/evaluations.

Coal mine degasification



ABOUT AGR GROUP



AGR Group is a leading provider of essential services and technologies to the international oil and gas industry. Our services range from assisting small exploration companies with their first licence applications through to constructing and managing ambitious drilling programmes for major organisations. In addition, we provide expertise, technology and critical solutions for exploration, development, production and maintenance projects for some of the world's largest oil companies.

We have a worldwide reputation for our innovative, safe, environmentally-friendly and cost-effective solutions to key exploration and production challenges and have established a leadership position in a number of key sectors. We focus on growth and earnings performance while pursuing sound and ethical business practices.

We have three operating divisions:

- AGR Petroleum Services
- AGR Drilling Services
- AGR Field Operations

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