

GE

Oil & Gas

GE's Oil & Gas business is a global leader in the supply of technology-based equipment and services for the entire oil and gas industry – from drilling and completion to production, transportation, refining, processing, petrochemicals and plastics. We offer a wide range of surface and subsea drilling and production systems, equipment for floating production platforms, compressors, turbines, turboexpanders and industrial power generation equipment. Our portfolio also includes best-practice service solutions to ensure that oil and gas wells and plant and equipment remain at peak performance levels, as well as pipeline inspection and integrity services. We regularly incorporate new technologies and resources developed throughout the extensive global GE network, with each advancement helping our customers achieve greater levels of performance and productivity.

Our numbers	Installed Base	
2006 revenue: \$5.9 billion	Compressors: 14,000	Surface systems: more than 100,000 in production
Employees: 10,500	Turbines: 2,400	Subsea drilling: used on 50% of all subsea wells
Operating in 70 countries worldwide	Centrifugal pumps: 8,000	Subsea production: more than 1,000 systems installed
Serving the oil and gas industry for more than a century	Turboexpanders: 2,000	Capital drilling systems: used on 85% of floater rigs
	Total km pipelines inspected: 241,400	Floating platform systems: used on >50% of all FPPs



Surface and Subsea Drilling Systems

GE provides all the equipment required for drilling and completing a well, on land or subsea, including a complete line of customized wellhead systems that deliver “next level” advanced performance to meet the most demanding operating conditions.

Applications

- Onshore drilling systems
- Offshore surface systems
- Subsea drilling systems
- Capital drilling systems
- Floating drilling systems

Products and Services (Drilling)

- Surface wellheads
- Subsea wellheads
- Marine risers
- Diverters
- BOP connectors
- Mudline suspension
- Casing connectors
- Installation tooling and service
- Gate valves



Oil and Gas Production

We provide the most comprehensive range of equipment and services for onshore, offshore and subsea applications with long life and reliability even under extreme operating temperatures and pressures in the most demanding environmental conditions.

Applications

- Oil and gas production
- Gas processing and treatment
- Gas and water injection
- CO₂ production
- Subsea processing and power
- Gas re-injection
- Gas lift
- Liquefied natural gas (LNG)
- Gas export
- Power generation

Products and Services

- Subsea control systems
- Subsea tree systems
- Subsea separation
- Subsea electrical connections
- Subsea flowline connections
- Subsea manifolds
- Flow assurance systems
- Aeroderivative gas turbines
- Heavy duty gas turbines
- Compressors
- Turboexpanders
- API 6A and 6D valves
- Air-cooled heat exchangers
- Surface tree systems
- Manifolds and templates
- Power distribution systems
- Protective structures
- Intervention systems
- Intelligent well technology
- Pipeline integrity management



Transportation and Storage

Our leadership in this area covers design, manufacture and services at every stage of the process from production plants to distribution points, including gas storage and subsea pipelines.

Applications

- Oil and gas transmission pipelines
- Gas storage
- Gas gathering
- Power generation

Products and Services

- Aeroderivative gas turbines
- Heavy duty gas turbines
- Compressors
- Pipeline integrity management
- Oil pumps driven by gas turbines or electric motors
- High-speed reciprocating compressors
- Reducing and metering stations
- Accessory equipment such as ball valves and process coolers



Refinery and Petrochemicals

GE's expertise spans the full range of traditional applications such as crude oil refining, through emerging technologies that help meet the global need for clean fuels, including gas-to-liquids processing. We design, manufacture and service equipment to meet individual plant requirements and offer the advantage of multi-product integrated solutions.

Applications

- Petrochemicals
- Refining
- Gas-to-liquids
- Power generation
- Heavy duty gas turbines
- Reactors
- Steam condensers
- Centrifugal pumps
- Valves
- Air-cooled heat exchangers
- Reducing and metering systems

Products and Services

- Compressors
- Steam turbines

Floating Production Platform Systems

GE's Floating Production Platform Systems business encompasses the supply of specialized products and services for various forms of floating production platforms, e.g. TLPs, spars, hybrid riser towers, etc. GE has a long and distinguished track record as a world leader and innovator for tomorrow's ultra-deep, High Pressure and High Temperature developments. Our leadership position is built upon innovative product development and high quality manufacturing supported by world-class analytical capabilities, design and development studies, installation experience and operational data.

Global Services

We provide custom engineered solutions to enhance efficiency, performance and safety for the complete lifecycle of your oil and gas assets. Our services go far beyond reactive maintenance and repair by leveraging decades of experience and the world's most advanced technologies to achieve greater predictability, prevention and proactive support.

- Contractual Service Agreements to maintain your plants, machines, equipment and pipelines at peak reliability and availability
- Field life management programs which offer a comprehensive range of services to meet operators' continually changing field management needs
- Comprehensive solutions ranging from machine and equipment upgrades (gas and steam turbines, centrifugal and reciprocating compressors, surface and subsea equipment, etc.) to debottlenecking projects and environmental services
- OEM spare parts, maintenance, repairs and a full portfolio of Conversions, Modifications and Uprates, and other advanced services
- Full range of technical support, troubleshooting, advanced diagnostics and monitoring – including continuous, real-time remote monitoring of plants and equipment from our facility in Florence, Italy

Pipeline Inspection and Integrity

We provide a comprehensive range of reliable pipeline inspection services for both oil and gas applications, including the industry's most advanced inline inspection tools and highly experienced In-field Service teams who tailor solutions to meet specific client needs.

- Metal loss and corrosion
- Cracking including SCC
- Cleaning and mapping
- Direct Assessment
- Unpiggable solutions
- Extensive repair services

Beyond inspection, we have a unique, comprehensive range of services that minimize downtime, extend asset operating life, reduce operating costs, enhance pipeline safety and demonstrate regulatory compliance

- Integrity engineering and management
- GIS and data management software solutions
- Continuous third-party impact damage detection

Industrial Power Generation

We provide turnkey modules for every sector of the oil and gas industry – and lifecycle services from feasibility studies to operations and contractual maintenance – including equipment, basic and detailed engineering, balance of plant, erection and installation services.

- We provide services in more than 60 upstream markets around the world. Installation, commissioning, and Life of Field services are backed by 600 field service, integrated aftermarket professionals. Distribution centers in 30 countries and aftermarket capabilities in 34 key locations provide spare parts, rental tools, and repairs for 24/7 customer service to keep the oil and gas flowing

Customer-focused research and development

We work in partnership with our customers to anticipate and meet future needs, drawing on advances from businesses across the global GE organization to create new technologies for oil and gas applications.

Environmentally responsible growth

GE's ecomagination initiative is designed to develop new technologies to help customers meet global environmental challenges while stimulating business growth. We will continue to invest heavily in ecomagination products during the coming decade, in order to provide significant and measurable environmental benefits as well as performance advantages to our customers.



GE imagination at work

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