

# GE Oil & Gas

GE Oil & Gas is a world leader in advanced technology equipment and services for all segments of the oil and gas industry – from drilling and completion to production, transportation, storage, refining, processing and petrochemicals. With the acquisition of VetcoGray and Hydril Pressure Control, our portfolio now boasts one of the most comprehensive range of products, systems and services for onshore, offshore and subsea applications. Our best-practice service solutions - including pipeline inspection and integrity services - ensure that oil and gas wells, plants and equipment remain at peak performance levels. And as part of GE, we regularly incorporate new technologies and processes developed throughout our global business to enable oil and gas customers to continuously achieve greater levels of productivity.

Our numbers	Installed Base	
<b>2008 revenue:</b> \$7.4 billion	<b>Compressors:</b> 11,000	<b>Surface systems:</b> more than 100,000 in production
<b>Employees:</b> more than 12,000	<b>Turbines:</b> 5,000	<b>Subsea drilling systems:</b> used on 50% of all subsea wells
Operating in 100 countries worldwide	<b>Centrifugal pumps:</b> 18,000	<b>Subsea production:</b> more than 1,000 systems installed
Serving the oil and gas industry for more than a century	<b>Turboexpanders:</b> 2,000	<b>Capital drilling systems:</b> used on 85% of floating rigs
	<b>Air-cooled heat exchangers:</b> 40,000	<b>Floating production systems:</b> used on >50% of all FPSs
	<b>Heavy wall reactors and steam condensers:</b> more than 200	<b>Total pipelines inspected:</b> 630,000 km

## Surface and Subsea Drilling Systems

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)

- Blowout preventers (BOP)
- BOP connectors
- Casing connectors
- Choke valves
- Diverter systems
- Drilling BOP control systems
- Drillstem valves
- Elastomers
- Gate valves
- Installation tooling and service
- Marine risers
- Mudline suspension
- Pulsation dampeners
- Subsea wellheads
- Surface wellheads



## Oil and Gas Production

The most comprehensive range of equipment and services for onshore, offshore and subsea applications, providing long life and reliability even under extreme operating temperatures and pressure levels.

### Applications

- Gas processing and treatment
- Gas and water injection
- 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, manufacturing and services for 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
- Air-cooled heat exchangers
- Reducing and metering stations
- Accessory equipment such as ball valves and process coolers



## Refinery and Petrochemicals

Our expertise spans the full range of traditional applications such as crude oil refining, through to 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

### Products and Services

- Compressors
- Steam turbines
- Heavy-duty gas turbines
- Reactors
- Steam condensers
- Centrifugal pumps
- Valves
- Air-cooled heat exchangers
- Reducing and metering systems

## Floating Production Systems

Our portfolio encompasses the supply of specialized products and services for various forms of floating production platforms, e.g., TLPs, SPARs, hybrid riser towers, FPSOs, etc. Thanks to innovative product development and high quality manufacturing – supported by world-class analytical capabilities, design and development studies, installation experience and operational data – 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.

## Global Services

We provide custom engineered solutions to maintain and enhance performance over the complete life cycle of oil and gas customer assets. Our offering spans from traditional services including spare parts supply, field service and technical assistance and repairs, to state-of-the-art technology for greater reliability and availability of installed equipment:

- OEM spare parts, maintenance, repairs and consultative services to optimize facility maintenance and operating expense
- A full range of technical support and troubleshooting, including continuous real-time remote monitoring of facilities and equipment
- Comprehensive solutions ranging from system and equipment upgrades to debottlenecking projects and environmental services
- Contractual Service Agreements to maintain facilities, systems and pipelines at benchmark reliability and availability

## 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 in-line inspection tools and highly experienced in-field service teams who tailor solutions to meet specific client needs around typical threats to pipelines.

- Metal loss and corrosion
- Cracking including SCC
- Mechanical damage
- Direct assessment
- Solutions for unpiggable pipelines
- Extensive field and repair services and mapping

Beyond inspection, we have a unique, comprehensive range of Pipeline Integrity 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, as well as for solar and geothermal applications – and lifecycle services from feasibility studies to operations and contractual maintenance – including equipment, basic and detailed engineering, balance of plant, erection and installation services.

Our installation, commissioning and outage services are backed by more than 1,200 trained and certified Field Engineers and our aftermarket capabilities in 46 key locations provide spare parts, rental tools for upstream applications, and repairs for 24/7 customer service to keep the oil and gas flowing.



## Environmentally responsible growth

Launched in 2005, ecomagination is GE's commitment to develop innovative technologies that help customers address their environmental and financial needs while helping GE to grow responsibly. For a product to be certified in the ecomagination initiative it must significantly and measurably improve environmental and operating performance. Today, GE's product

portfolio includes over 80 energy efficient and environmentally advantageous products and services.

[ecomagination.com](http://ecomagination.com)



GE imagination at work

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