

Comprehensive solutions for upstream operations

From field management to
cloud control room

Master your upstream challenges.

Reliable expertise

As an oil and gas (O&G) producer your challenges are numerous and hard to master:

- Employee, asset, and environmental safety
- The high cost of off-shore staffing
- Business performance and production efficiency
- Digitization and IoT technology deployment
- Aging/unskilled workforce and knowledge transfer
- Difficulties throughout the supply chain

You need to maximize profit, reduce risk, and comply with regulations, as well as meet the needs of remote fields and facilities. On top of all that, keeping your upstream operations running optimally means continual investment in your people and careful management of knowledge transfer.

As a leading partner for the O&G industry, Schneider Electric™ solutions can help. Some of the biggest O&G producers in the world already rely on our extensive expertise.

Your people, our services and solutions

We help you optimize production by improving safety, performance, and efficiency throughout your upstream operations. Schneider Electric teams work with you during all project phases to maximize your return.

Moreover, our experience in modeling and simulation will equip your team with the knowledge and skills required to optimize project operational decision-making from inception to end of life.

Schneider Electric effectively addresses more than 80% of the onshore production and operation market.



30+ years of expertise

- **Optimize production**

Our upstream offer helps you meet production targets at minimum cost, maximize production revenues or margins, and optimize planning and scheduling of production/maintenance phases.

- **Improve health, safety, and environment management**

We deliver leading technology to meet significant health, safety, and security challenges, while satisfying stringent technical requirements, standards, and regulations. Simulation, training, safety, and security solutions help reduce the risk of accidents.

- **Increase operational and process efficiency**

Real-time visibility helps you maximize throughput, lower operating costs, and drive operational excellence. Improved enterprise reporting and predictive capability simplify decision-making. Shortened commissioning times help reduce time to first oil or gas.

- **Manage infrastructure optimally**

Our solutions help you reduce CapEx and OpEx thanks to precise supply chain management, and remote monitoring and control of wells and surfaces. Best-in-class power management and distribution optimizes energy and outage management; energy management services increase safety and reliability while reducing costs.

Integrate and enhance your upstream operations.

Bringing upstream operations together like never before

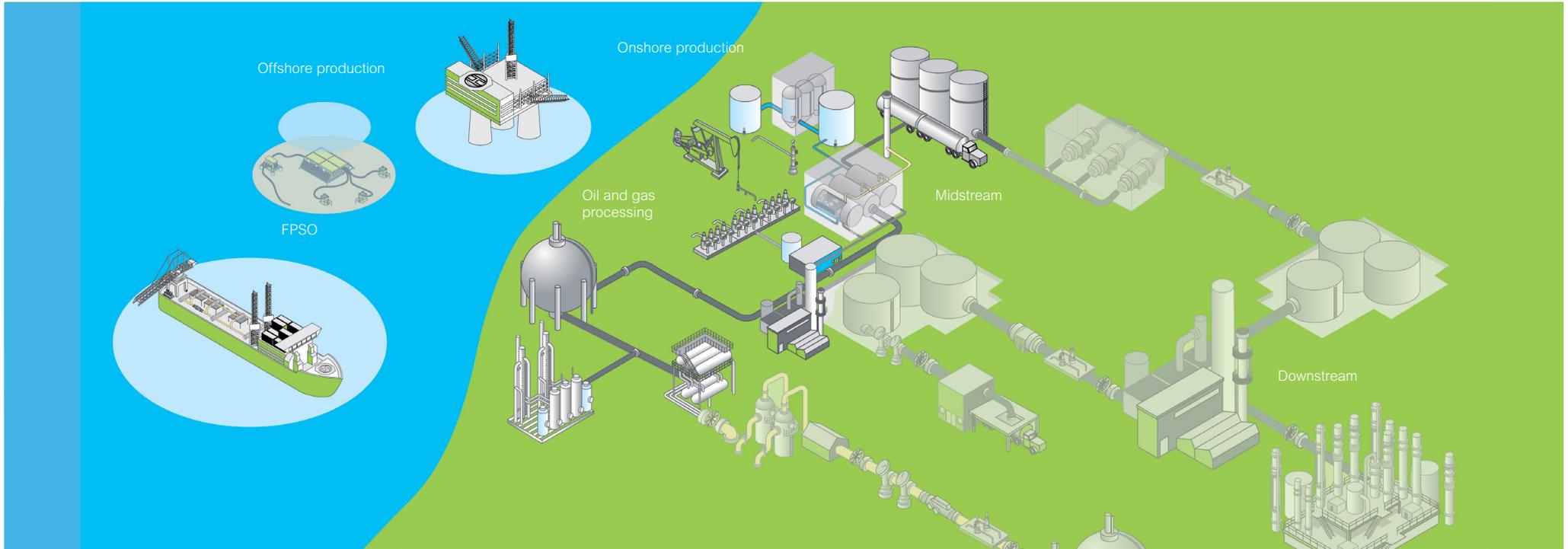
Schneider Electric provides fully integrated services and solutions for your upstream operations, from offshore platforms and floating production storage and offloading (FPSO) to onshore fields and gas processing facilities, linking everything from the field to the enterprise level. That gives you flexible solutions covering automation, information, process, and energy management, together with training, safety, and security, from a single project partner.

This holistic approach to upstream operations helps you reach an optimal balance between business and technical performance, and safety, financial and environmental compliance.

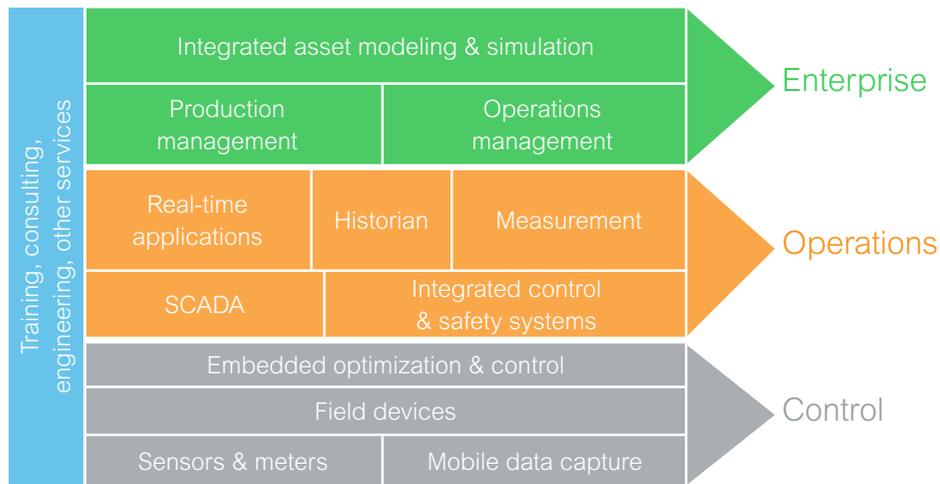
Our upstream offer at a glance

- IoT enabled remote management and analytics — from field management to cloud control room
- A complete suite of differentiating software, services, and systems
- Integrated modeling and simulation-based system for production, process, and energy management
- Open and flexible architecture for improved interoperability

In onshore facilities, by optimizing resource utilization, we increase production efficiency by up to 5% while also maximizing recovery.



Example upstream solution architecture



In a word: Open

Our solutions employ technologies based on open standards to protect operational integrity and simplify the evolution of your processes.

Maximize production, safety, and staffing without increasing costs.

Schneider Electric Smart O&G Field solutions address your most critical challenges — from the specific risks of offshore operations, to the high costs of downtime and staffing, to motivating your workforce to embrace new technologies. What's more:

- Real-time visibility and control ease decisions on equipment performance.
- Process and energy management solutions optimize extraction operations.
- Integrated critical safety applications protect staff and facilities, while helping meet stringent regulations.
- Training and simulations boost operator effectiveness and reduce staff turnover.

A closer look at our Smart O&G Field solutions

Software: Onshore and offshore, our integrated software suite delivers predictable efficiency through simulation and modeling, asset management, and business intelligence.

Process automation: Our proven expertise helps accelerate safe, reliable, cost-effective deployment.

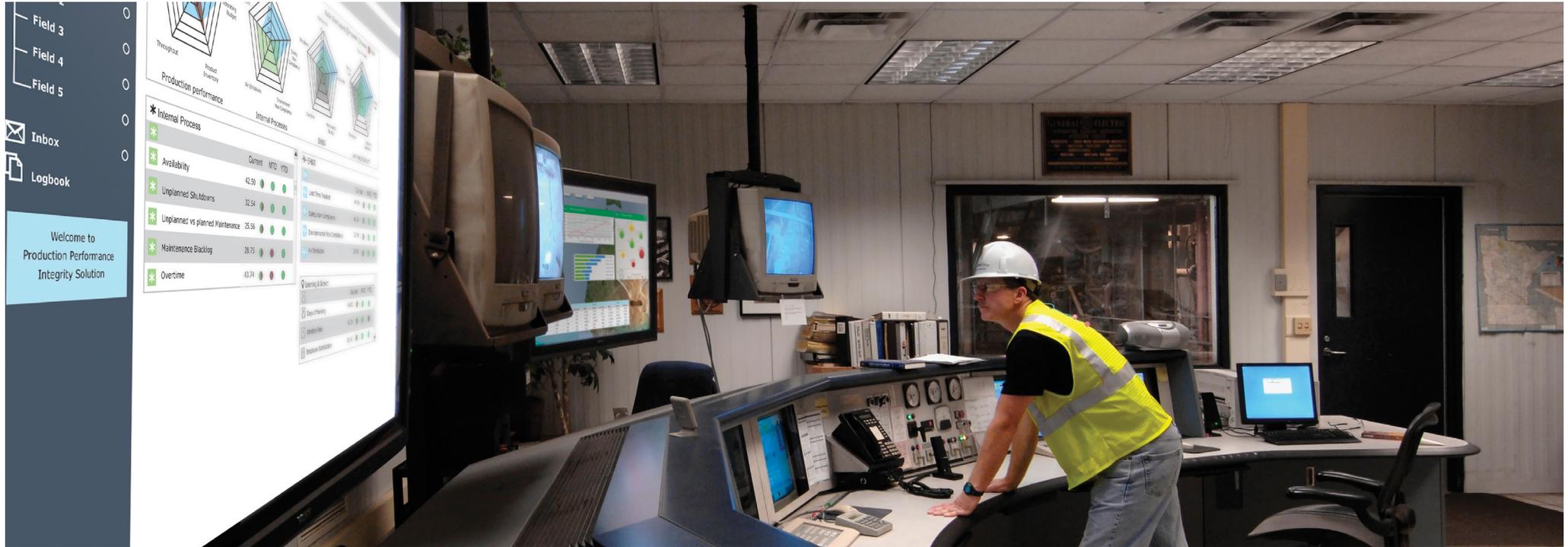
Safety: Complete abnormal situation management encourages proactive incident prevention — both onshore and offshore.

Artificial lift, field automation, and measurement: Data aggregation, automation, and optimization of artificial lift functionality improve field operations and increase recovery.

Energy and outage management: We improve reliability and uptime of operations by managing multiple energy sources and ensuring power availability and quality.

Life cycle services: Our people make the difference — providing a suite of services, from energy and sustainability to consulting and modernization.

We reduce offshore project CapEx by up to 5% and OpEx by up to 6%.



Addressing critical challenges

Onshore

- Maximize production without increasing costs
- Manage daily operations safely and reliably
- Motivate your workforce to embrace new technologies

Offshore

- Reduce the risks of offshore operations
- Tackle the high cost of downtime
- Mitigate the high cost of offshore staffing

The Schneider Electric difference

We leverage our leadership position in operational management software, process safety, and secure power to maximize your return on assets.

Only our portfolio and expertise can address the automation, process, and electrical complexities required to deliver comprehensive onshore projects with speed and efficiency.

We listen, mitigate risk, and drive results.

Discover best-in-class solutions for O&G processing.

Upstream processing made better

When it comes to planning, commissioning, and managing your O&G processing facilities, Schneider Electric has industry-leading solutions. We remove risk and complexity from a project's critical path, ensuring on-time and on-budget execution.

A closer look at our processing solutions

Software: Our integrated software suite enables predictable efficiency through simulation and modeling, asset management, and business intelligence. Blending software maximizes process throughput and yield.

Energy and outage management: Our customized power distribution solutions, including control systems in customized E-Houses, accelerate commissioning.

Safety: Complete abnormal situation management encourages proactive O&G incident prevention.

Process automation: Our proven expertise helps accelerate safe, reliable, cost-effective deployment.

Instrumentation: Explore our full range of reliable instrumentation for greenfield/brownfield projects.

Life cycle services: Our people make the difference — providing a suite of services, from energy and sustainability to consulting and modernization.



Addressing critical challenges

- Stabilize the plant for commercial production early
- Address an aging workforce
- Stabilize the increase in plant capacity

The Schneider Electric difference

We partner with our customers to maximize return on assets by leveraging our leadership positions in LNG, process control, and electrical distribution.

600 million+
hours

run by process plants worldwide without failure on demand thanks to our process safety solutions.

Count on world-class O&G service and support.

As a global company, Schneider Electric can support your O&G operations anywhere in the world. Our support centers and local service teams provide a wide range of services for the entire life cycle of any installation.

As part of our consulting services, Schneider Electric experts provide key insights for operational risk management, electrical and process front-end engineering design, factory acceptance testing, energy trading, and energy savings. They can help reduce your total cost of ownership through design applications, studies, hardware life cycle management, and maintenance.

Our field services for O&G installations improve safety and reliability while minimizing costs. We offer tailored service plans, training, and on-demand maintenance to help you assess, optimize, modernize, and maintain your equipment.

5,000

Schneider Electric employees worldwide are dedicated to the O&G industry.





Global & regional engineering centers

(Large O&G projects)

- Houston (USA) - Calgary (Canada) - Sao Paulo (Brazil)
- Grenoble (France) - Moscow (Russia) - Dubai (UAE)
- Jakarta (Indonesia) - Beijing (China) - Sydney (Australia)

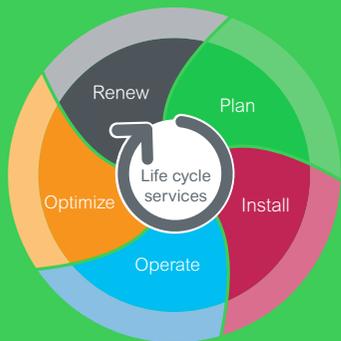
Specialized engineering centers

(Specific technology & expertise, incl. services)

- MV/LV**
 - Nashville (USA) - Mexico City (Mexico) - Bogota (Colombia) - Buenos Aires (Argentina)
 - Milan (Italy) - Algiers (Algeria) - Cairo (Egypt)
 - Seoul (South Korea) - Kuala Lumpur (Malaysia) - Bangkok (Thailand) - Shanghai (China)
- E-Houses**
 - Nashville (USA) - Brossard/Calgary (Canada) - Blumenau (Brazil)
 - Montpellier/Grenoble (France) - Samara (Russia)
 - Jakarta (Indonesia) - Brisbane (Australia)

Global O&G expertise centers

- FEED support**
 - Houston (USA) - Abu Dhabi (UAE) - Jakarta (Indonesia) - Rio de Janeiro (Brazil)
- Solution labs**
 - Houston (USA) Pipeline management, Smart O&G Field
 - Montpellier (France) Energy Management & Control System
- Energy management & control systems**
 - Montreal (Canada) - Nashville (USA) - Sao Paulo (Brazil)
 - Montpellier (France) - Moscow (Russia) - Dubai (UAE)
 - Jakarta (Indonesia) - Chennai/Delhi (India)
- Enterprise & operations management software**
 - Lake Forest (USA) - Sao Paulo (Brazil) - Dusseldorf (Germany)
 - Al Khobar (Saudi Arabia) - Abu Dhabi (UAE) - Beijing (China)
- Enterprise pipeline management systems**
 - Calgary (Canada) - Houston/Baltimore (USA)
 - Madrid (Spain)
 - Shanghai (China)
- Secure power**
 - Zurich (Switzerland)
 - Kuala Lumpur (Malaysia) - Shanghai (China)
- Prefabricated data centers**
 - Miami (USA)
 - Barcelona (Spain)
- Process automation (DCS, safety, field automation ...)**
 - Mexico City (Mexico) - Calgary (Canada) - Sao Paulo (Brazil) - Houston (USA)
 - Bratislava (Slovakia) - Cairo (Egypt) - Algiers (Algeria) - London (UK) - Paris (France) - Milan (Italy) - Dubai (UAE) - Al Khobar (Saudi Arabia)
 - Chennai/Mumbai (India) - Shanghai (China) - Singapore - Seoul (Korea)
- Smart O&G Field**
 - Vienna (Austria)
 - Ottawa (Canada)
- Fuel supply chain**
 - Omaha (USA)



Reduce your total cost of ownership.

Ask about our life cycle management approach to planning, optimization, and installation for a reliable, energy-efficient operation.

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