



# Optimize and Energize:

Is Your Oil and Gas Organization

**Empowered** to Meet Your **Upstream Goals?**

Partner with a company that has a rich history in creating tailored solutions designed to meet your unique challenges within an ever-changing industry.

**Partner with Radix.**



The Oil and Gas industry faces unique challenges within an ever-changing environment.

You seek out solutions designed to empower you to achieve your goals more efficiently while transforming your upstream operations.

Sustainable growth relies on your investment into solutions that optimize your potential through intelligent digital solutions that are reliable, configurable and scalable.

Navigating the challenges facing the Oil and Gas industry requires ingenuity and innovation. Your organization seeks solutions designed specifically to support your upstream expectations - flexible, versatile and adaptable solutions focused on prioritizing your growth and strategic roadmap.

The Oil and Gas industry grapples with analyzing and managing vast quantities of data in real time. Collecting, storing, cleaning and processing this data is time-consuming and complex as it demands absolute precision to ensure it is usable and relevant to the organization. As a result, many companies within this sector are hamstrung – they lack the infrastructure required to fully realize the potential of their data. You want a solution that allows you to make rapid, data-driven decisions that enhance your competitive positioning and integrates seamlessly within your platforms. You want real-time analytics, reporting and visibility.

Finding balance within this sector, particularly for upstream operations, is challenging. You want to improve your performance so you remain competitive but you don't want to invest in the next big thing. You want to invest in the right thing – technology that allows for you to modernize and transform your data and infrastructure so you gain the benefit of long-term value.

We have been actively engaged in both onshore and offshore operations, with a rich history of successful activity in more than 70 offshore assets. Additionally, we possess deep industry expertise in onshore operations for major oil and gas companies worldwide.

# The question of how – a case study

## Discover your potential: A centralized environment for asset management

Operating an offshore oil platform (FPSO) is complex. Companies manage hundreds of rotating and static equipment items comprised of mechanical elements exposed to degradation and failure. It's a challenge to make objective engineering analyses due to the dispersed storage of critical data and information. Companies struggle with multiple maintenance support systems, limited visibility, reactive maintenance and repair, and unplanned downtime.

### The Radix way

Radix has a proven track record of creating trusted solutions. We develop an agnostic integration between engineering documentation, process data and transactional maintenance alongside a centralized asset management ecosystem. This ecosystem is curated through five clear steps: defining the digitalization solution; undertaking a failure modes and effects analysis (FMEA); generating dashboards and implementing models; integrating systems; and orchestrating change management.

### A proven data-driven transformation

Leveraging the Radix toolkit to optimize asset performance and operations, organizations benefit from lower maintenance and operational costs through systematic and standardized analyses. It allows for improved information gathering, record management, proactive and predictive maintenance, and increased productivity and safety.

## Radix has a proven track record:

**+100**

engineering algorithms used to perform condition-based monitoring of more than 900 pieces of fleet equipment

**4,000**

engineering documents mapped

**1,500 million**

references from external databases mapped

**17,000**

analyses run in continuous execution evaluating more than 22,000 KPIs

**500**

dashboards consolidating information

**And this is just within one sub-division of our upstream operations**

## Delivering Excellence in Oil and Gas: Onshore and Offshore

Onshore and offshore asset digitization projects undertaken by Radix focus on dynamic principles such as governance and leadership, operational intelligence, digital enablement, enhancement of digital infrastructure, risk management, physical infrastructure, and people and processes. Our developed solutions encompass technical and economic feasibility studies, along with clearly defined technological development and implementation planning.

To maximize operational efficiency and optimize decision-making for improved returns, Radix leverages real-time data, data analysis, machine learning, and automation. These tools enable better-informed decisions and predictions, significantly enhancing efficiency, safety, and productivity in oilfield operations.

Our comprehensive approach covers various critical areas, including maintenance, asset management, safety, environmental management, and production optimization. By addressing these aspects, Radix ensures a holistic improvement in operational performance and returns.

## Across different scenarios for systems digitization, Radix has achieved:

The highest rate of return in operational efficiency

Insight into PoB reductions across three key scenarios that include

**53%, 44%, 33%**

Measurable return on investment of

**up to 55%**



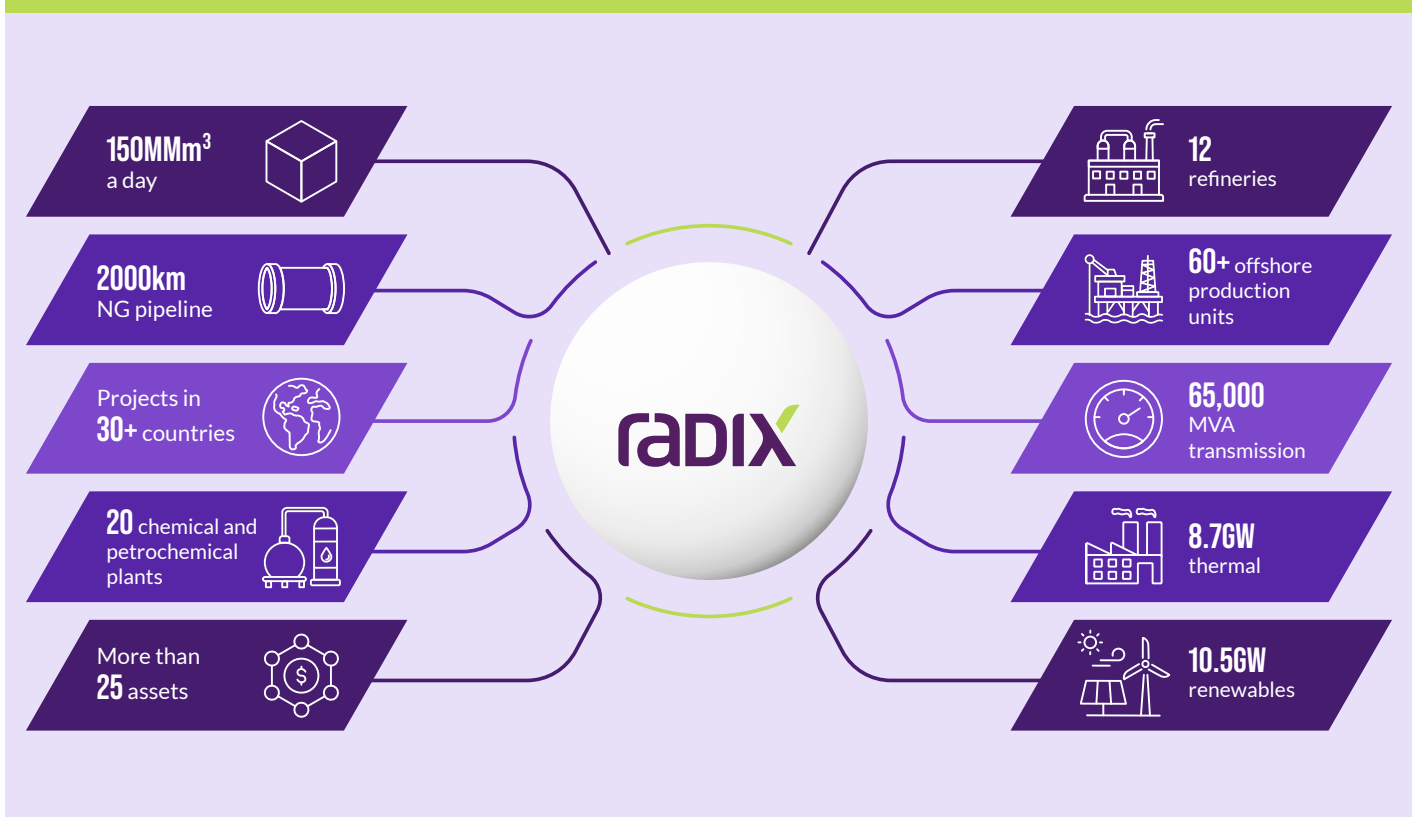
## Radix Upstream Digitization

- Data-driven transformation at scale
- Transformation from reactive to proactive operational visibility
- Preventing unexpected equipment shutdowns with digital twins
- Measurable cost savings
- Proactive and predictive maintenance
- Increase operational efficiency
- Concept-to-design solutions that meet your modernization expectations
- Achieve your sustainability targets
- Real-time access to data across your operations for improved reporting and visibility
- Reliable, configurable and scalable solutions
- Near real-time performance within a secure and transparent architecture
- Access to contextualized data
- An extensive digital suite across multiple verticals

## Radix Optimal Asset Optimization

- A global technology solutions company providing advisory across consulting, engineering, operations technology, and digital solutions
- Extensive upstream expertise
- A proven track record in OT/IT and ET
- Highly qualified strategic asset performance solutions suited to the contexts and challenges of your company
- High-level application performance management
- Meet market demand and create sustainable environmental impact with CAPEX investments that deliver ROI
- Governance models for tools and data management incorporating the RASCI Matrix
- 30+ years of Oil, Gas, Energy and Chemicals domain expertise

## Unlocking the Power of Asset Performance Excellence



Learn more about onshore and offshore solutions to achieve excellence in asset performance.

[www.radixeng.com](http://www.radixeng.com)