OIL AND GAS

Engineering insights for safety, performance and regulatory compliance
INSIGHT THAT FUELS PERFORMANCE

For clients in the oil and gas sector, RWDI delivers tools that help operators respond to unforeseen issues quickly and effectively, and guidance on how to optimize infrastructure and operations for local conditions. Combining deep technical expertise with a strong focus on clients’ priorities, our team delivers customized insights that support responsible and profitable performance across a range of landscapes and activities.

Explore Innovations
- Find creative, win-win solutions to regulatory and technical challenges
- Design optimal ways to balance competing priorities

Meet Challenges
- Troubleshoot issues like noise, waste, dust, odour concerns and accidental releases
- Model past or prospective events – and operator responses – in detail
- Minimize operational delays with detailed weather forecasting

Create Opportunities
- Smoothly execute environmental assessments and permitting processes with experienced support
- Improve stakeholder engagement by including engineers and scientists who combine technical expertise with excellent communication skills
- Interpret the weather – past, present and future – for better safety, efficiency, profit and resiliency

Fulfill Expectations
- Adopt best practices to achieve regulatory compliance
- Mitigate environmental impacts
- Ensure safe operations and as-designed performance
- Translate technical rigor into concrete, sustainable value
- Help achieve social license to operate

RWDI is a valuable partner to clients seeking to...
PIPELINES & TRANSPORTATION

RWDI supports regulatory compliance and sound economic operation along pipeline routes, from design to test to use. With deep expertise in soil mechanics, climate change, and bridge engineering, we provide critical technical solutions to industry for all environmental impact, engineering and economic considerations. Our teams predict how climate change will affect pipeline networks and their features across large areas. Our in-house software development capabilities provide clients with real-time monitoring approaches as well as regulatory requirements, and we measure and monitor developing events in real-time. Through predictive technology, we create and customize applications that combine technical insight and regulatory knowledge, relying on engineering efficiency and diagnostic monitoring to meet technical and regulatory requirements. Knowledgeable about a diverse range of measurement and monitoring approaches, and people who thrive in complex operating environments, we are experts at developing innovative tools to help firms demonstrate regulatory compliance. Why RWDI for environmental impact assessments, productive community engagement and other foundational steps.

EXPLORATION & PRODUCTION

At all stages of exploration and production, we use both standard and innovative technical approaches to help clients ensure safe conditions for workers and communities, mitigate environmental impacts, and promote regulatory compliance.

REFINERIES

Our teams support safe and compliant day-to-day operations, going beyond traditional limits to monitor and anticipate conditions in their unique environments. Whether为客户evaluates, or our teams deliver engineering intelligence to meet environmental, economic goals, protect human health and exceed regulatory requirements. Our experience with mission-critical assets spans the globe and has included many facilities where local climates present unique and complex risks.

MARINE TERMINALS & OFFSHORE EXTRACTION

We give clients critical insight into marine terminals and offshore extraction. We support safe and compliant day-to-day operations, going beyond traditional limits to monitor and anticipate conditions in their unique environments. Whether为客户evaluates, or our teams deliver engineering intelligence to meet environmental, economic goals, protect human health and exceed regulatory requirements. Our experience with mission-critical assets spans the globe and has included many facilities where local climates present unique and complex risks.

PLANNING & CONSTRUCTION

Our teams work alongside planners, engineers and contractors to optimize the design of all gas and oil facilities and infrastructure. RWDI's engineers and scientists then environmental impacts occur ranging from soil mechanics, acoustics, and electro-magnetic interference, to mitigation of off-site impacts and greenhouse gas emissions. Our mission-critical engineering teams deliver design guidance on offshore rigs, inland facilities and other assets that help meet their compliance and operational efficiency. During construction, our meteorologists provide custom forecasts that help minimize operational delays across existing, existing construction, and efficient, direct tools used for technical analysis and regulatory responsibilities. RWDI for environmental impact assessments, productive community engagement and other foundational steps.

OPERATIONS

We help clients understand, communicate and mitigate their impact – upstream, mid-stream, and downstream. We can represent your perspective and describe your work in terms that are credible to experts and clear to the public.

CAS PLANTS & OIL BATTERIES

We offer a highly effective mix of industry-specific knowledge and environmental engineering expertise to oil processing through production. We help our client's team deliver operational excellence, regulatory compliance, challenges, better and maintain their businesses, optimize operations, exceed safety, and reduce cost.

TROUBLESHOOTING

When unforeseen issues arise, our teams can model the problems, assess the impacts and propose solutions in clear language for regulatory, cost control, and cost-effectiveness. We can represent your perspective and describe your work in terms that are credible to experts and clear to the public.

PIRATHERMIC STABILITY

We support regulatory compliance and sound economic operation along pipeline routes, from design to test to use. With deep expertise in soil mechanics, climate change, and bridge engineering, we provide critical technical solutions to industry for all environmental impact, engineering and economic considerations. Our teams predict how climate change will affect pipeline networks and their features across large areas. Our in-house software development capabilities provide clients with real-time monitoring approaches as well as regulatory requirements, and we measure and monitor developing events in real-time. Through predictive technology, we create and customize applications that combine technical insight and regulatory knowledge, relying on engineering efficiency and diagnostic monitoring to meet technical and regulatory requirements. Knowledgeable about a diverse range of measurement and monitoring approaches, and people who thrive in complex operating environments, we are experts at developing innovative tools to help firms demonstrate regulatory compliance. Why RWDI for environmental impact assessments, productive community engagement and other foundational steps.
Services

RWDI’s core practice areas bring together a diverse array of capabilities around a common purpose: meeting the immediate aims and broader business goals of our clients.