Druck

Partnering with you today for the

Energy solutions of tomorrow

druck.com

[Our innovative technologies have taken a small Leicester, UK-based pressure sensor company and turned it into a globally recognized leader]

Energy solutions for today and tomorrow

At Druck we're known around the globe for our portfolio of high performance, accurate and stable pressure sensors and test and calibration equipment.

In collaboration with you, our innovative technologies have taken a small Leicester, UK-based sensor company and turned it into a globally recognized leader in the pressure-measurement space. We have over 50 years of experience across a range of industries and applications, from motorsport to the military. Working in industries as wide ranging as aerospace and environmental monitoring, Druck has customers in more than 70 countries. **And that's only the beginning...**

Ready for the challenges of today and tomorrow

Druck recognizes the need to work towards a greener world, and we have set our own sustainability goals to reduce our emissions by 50% by 2030 and to be at net-zero by 2050.

We know you face similar challenges. Over the past years, we have worked with customers on solutions in hydrogen energy, carbon capture and storage, geothermal, and other enterprises to take energy forward. As the energy landscape transforms, Druck will continue to collaborate with companies throughout the globe to enable success during this transitional period – and beyond.

We can support your ventures into the future of energy, whether you are looking at increasing your efficiency, decarbonizing, or fulfilling your organizations' sustainability goals – or all three.

Partnering with you, we will build on the wealth of knowledge we've gained from five decades of customer collaboration, success in countless applications, and our rich history of excellence. And, as one of only a few companies to control the entire manufacturing process – from the in-house, raw processing of silicon chips to manufacturing the final unit that you see – Druck has the expertise to get it right.

The energy transition is happening now, and Druck can partner with you today to provide the energy solutions of tomorrow.

Improving efficiencies for power generation

The United States in 2020 generated about 4 trillion kilowatt-hours of electricity, about 60% of which came from burning fossil fuels, according to the U.S. Energy Information Administration (EIA). Even as the world transitions toward renewable power, hydrocarbon fuels will remain in the mix for years. But in an ever more competitive environment, operational efficiency will be a key to their success.

For instance, oil and gas will play an important role in meeting global energy demand over the next few decades. The expectation is that fossil fuels will continue to provide peak load supply when renewables are not able to fulfill demand. Hence, there will always be a continuous strive for efficiency improvement in the power generation industry. In fact, natural gas is seen as a steppingstone in the path toward complete removal of all non-green energy sources.

Although debate rages about the need to build new nuclear power stations in the U.S., construction continues in some regions around the globe, with this technology producing about 10% of the world's power. While most plants in the U.S. are nearing the end of their design life, experts seem to agree that they should be kept online as long as they continue to run safely and efficiently. In fact, a two-year study from MIT concluded that in the next decade, the most cost-efficient, reliable grid comes from an energy mix that includes nuclear.

Partnering with Druck

The ability to accurately and efficiently identify inefficiencies within your power plant can yield cost reductions as well as reduced emissions. We can partner with you to offer fast and accurate process data, helping you achieve your efficiency goals.

[We can partner with you to offer accurate emissions monitoring, helping you achieve your efficiency goals]

Reducing your carbon emissions is critical

Efficiency solutions are critical to emissions reductions. Our precise equipment can monitor emissions, optimize your processes and increase efficiencies – always striving to remove ever-increasing amounts of carbon emissions from the atmosphere. In addition, we have potential pipeline and storage applications that might work well with your applications.

[In smart cities, companies, citizens and local government work together to launch initiatives and use intelligent technologies to manage their resources]

Enabling carbon containment and capture

The world's decarbonization efforts don't all fit into a single bucket. While some attempt to increase efficiencies – thereby using less fossil fuels and lowering their greenhouse gas emission levels – many are working to capture and contain their emissions through a range of technologies called carbon capture utilization and storage (CCUS).

In fact, according to the Intergovernmental Panel on Climate Change (IPCC), emissions reductions alone won't achieve the climate goals set out by the Paris Agreement. Instead, technologies are needed to remove carbon from the atmosphere, move them via pipeline and store them underground. When attached to a fossil fuel power plant, carbon capture technology can reduce CO_2 emissions by more than 90%. And, the International Energy Agency writes, "Strengthened climate goals and new investment incentives are delivering unprecedented momentum for CCUS, with plans for more than 100 new facilities announced in 2021."

In smart cities, citizens and the local government work together to launch initiatives and use intelligent technologies to manage their resources. And because they understand the need for clean and more efficient energy production, many smart cities are turning to CCUS technologies to more effectively manage and coordinate their energy production, distribution and consumption. Although smart cities work to meet efficiency goals using clean energy production with limited emissions, they also use CCUS for their remaining emissions.

Accurate high pressure measurement

Our sensing technology can help you accurately measure pipelines that are moving CO_2 at high pressure.

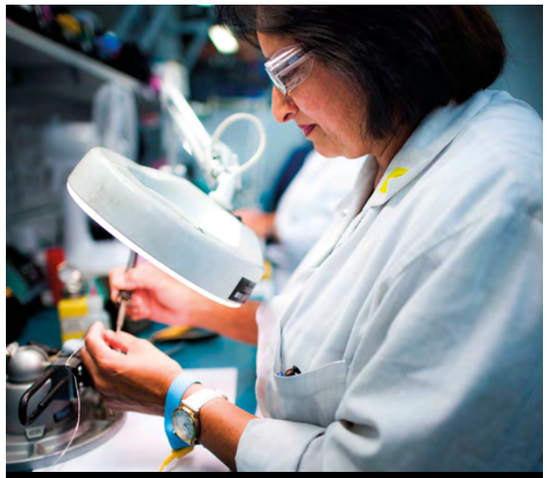
Helping you identify process and power ineficiencies

The ability to accurately and efficiently identify inefficiencies within your power plant can yield cost reductions as well as reduced emissions. We can partner with you to offer accurate emissions monitoring, helping you achieve your efficiency goals. In addition, our sensing technology can help you accurately determine pressure on pipelines that are moving gas under extreme conditions.

Exploring a new energy mix

With a rich history of working with customers in some of the world's most challenging environments, including motorsport, aerospace, and environmental monitoring, Druck has proven expertise in developing pressure sensor solutions for OEMs. Since our foundation in 1972, we have successfully applied technical innovation, expertise and a customer-oriented approach to deliver the highest quality pressure sensors.

The energy transition offers new challenges and Druck is ready to partner with you to deliver the pressure sensor that suits your application in this new space.



Key industries:

- **Energy** – hydrogen, geothermal
- **Energy storage** – battery
- **Aerospace** – e-VTOL and SAF (sustainable air fuel)
- **Electric vehicles**
- **Climate change** – oceanography & meteorology

How can we help you?

We would love to talk with you about any of the above, but let's take a closer look at just one of these key industries, hydrogen – one of the fastest growing energy sources in the market today.

The current demand for hydrogen is at an all-time peak, and many suggest this is only the beginning of hydrogen's growth. A storable fuel, it is replacing traditional hydrocarbon fuels in a range of applications, including vehicle fuels. Druck has worked closely with key customers globally to successfully collaborate on their hydrogen applications.

In fact, we are turning to this technology for our own production activities. With our commitment of net-zero by 2050, we see hydrogen as a key solution that will help us achieve our pledge.

Obviously, the decision to turn to new technology can significantly impact your business operations, performance and reputation. Partner with Druck today for the energy solutions of tomorrow.

[Partner with Druck today for the energy solutions of tomorrow]

Partnering with Druck

You'll find Druck equipment deep on the seabed in the Gulf of Mexico, measuring hydrocarbon pressures and temperatures flowing through the subsea trees and manifolds. And, you'll find it mounted in a high-performance motorsport car engine, providing reliable data in a high temperature, high vibration environment. It is in these restrictive operating conditions and tough environments that our equipment continues to provide reliable and trusted measurement, year after year.

Our products – developed to support some of the world's most rigorous, challenging and precise applications – weren't created overnight, however. Since 1972, we have been building on our success by partnering with you on the technologies and products that matter to you and meet your specific needs.

In an environment as new and demanding as the future of energy, such collaborations have never been more important. That's because no single approach, product or solution will deliver clean energy.

Druck is committed to supporting you across a dynamic range of industries with the strength of our sophisticated supply chain. Our dedicated teams of design, electrical and mechanical engineers are continuously developing and improving our pressure sensing solutions. And, we continue to invest in advanced manufacturing techniques and processes that keep us at the forefront of product quality and efficiency.

As we push new frontiers and set new benchmarks in performance, we will work with you to create the solutions that will meet your needs.

[Druck is committed to supporting you across a dynamic range of industries with the strength of our sophisticated supply chain]

We are a global technology company that designs, develops and manufactures the highest quality, most accurate and reliable customized pressure sensing devices and instruments, software and services. We leverage innovation, continuous improvement and unprecedented quality, to enable our Customers to successfully operate, produce systems, monitor and/or control mission-critical assets in tough environments across the world's most challenging applications.

We delight customers with tailored solutions that address their challenges; embodying our deep domain knowledge of customers' applications, the most innovative and high performance connected pressure sensing devices, instruments, software and services; produced with the highest standards of safety, quality and delivery.

We are Druck. We provide peace of mind in the toughest environments.

Contact us

For more information please contact your local Druck representative, or visit:

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