

Digital Engineering

Contact us

If you'd like to find out more about our ground-breaking technical solutions, have a specific issue you'd like to discuss with us, or just want to keep up-to-date with our latest news, please get in touch.

Call us on

US +1 833 712 9982

UK +44 (0) 117 214 0405

Email us at

enquiries@digital-engineering-ltd.com

Head office

6th Floor, Newminster House
27-29 Baldwin Street,
Bristol BS1 1LT, UK

[digital-engineering-ltd.com](https://www.digital-engineering-ltd.com)

Powered by data. Driven by innovation.

At Digital Engineering, innovation is the driving force behind everything we do. It's why we've been able to develop pioneering new services that not only help to boost performance and optimize maintenance, but improve safety, reduce customer downtime and add value.

**Digital
Engineering**

Solving problems with pioneering solutions

Each of our data-powered services have been designed to solve a specific difficulty faced by the energy industry. And as they're tried and tested in real world situations, there's absolutely no risk for you.

Demand Analytics

Weather can profoundly impact local power demand. But the available data is usually based upon simplistic models that look at wide geographical areas, making it difficult to separate the effects of weather and consumer behavior on electricity demand.

Our model discovers underlying trends by quantifying weather driven demand, producing scenarios that show asset owners how their network will respond to future weather events. This helps improve their targeting of investment, while also aiding the development of tools to deal with the modernization and decentralization of the distribution network.

Asset Health

A wide range of environmental conditions, especially wind, are known to impact the wear of overhead lines (OHL), impacting how long they can function before they need replacing.

Our wind-induced wear and corrosion models can be applied to all OHL assets and detect sections of routes at high risk of damage, providing an efficient method of classifying spans in terms of wind exposure, wear risk and galloping risk, which enables management strategies to be optimized, and increases system reliability.

Renewable Forecasting

As the volume of renewable power connected to the grid increases, it presents energy utilities with exciting possibilities and demanding challenges. Which means understanding when and where this energy will be produced is more important than ever.

By utilizing high quality meteorological data, our specially-designed models provide brilliantly reliable long and short-term wind and solar production forecasts. These not only enable a better understanding of the impact of renewable energy generation on power prices, but also of the amount of energy that is likely to be generated.

Transformational thinking to empower the energy industry

We're always searching for pioneering new ways to solve the problems faced by the energy industry. In fact, we've got five new projects running in real-world environments, including Substation Maintenance, Extreme Weather Analysis and Line Rating.

To ensure we continue to innovate, we've adopted a truly inventive approach - one that sees us constantly designing and developing, prototyping and iterating, refining and evolving.

This approach is only possible because of our team. With expertise in weather simulation, engineering modeling and data analysis, it's thanks to them that we can work in the way we do.



Precise

Our guiding principle is accuracy. We've built our entire offering around first-rate data and extensively-validated models, which means you can be confident that the information we provide is always of the highest quality.



Pioneering

By constantly applying the latest thinking and technical advances, we're able to deliver the solutions you need. This ensures you always receive unsurpassed services based on the latest engineering techniques.



Productive

We understand that every product we deliver has to help you achieve an end result. That's why we focus on providing solutions that give you the information you need, in context, ensuring that you can always make completely informed decisions.