



## Executive summary

# Building a resilient future for the energy and utilities sector

A Platned overview on creating intelligent, sustainable and future-ready operations with IFS Cloud (IFS Cloud)



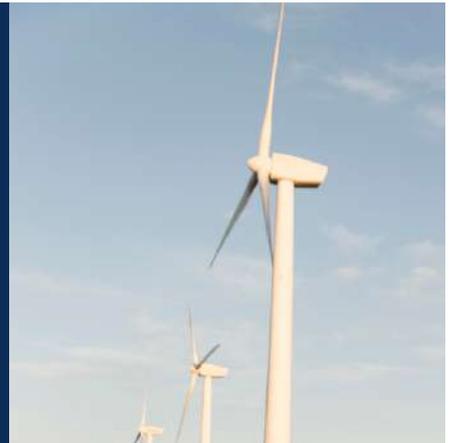
## The challenge facing the energy and utilities sector

The energy and utilities sector is experiencing unprecedented operational pressure. Extreme weather events, rapid environmental changes and increasing climate volatility have become frequent and impactful. Flooding, intense storms and heatwaves now pose routine risks to energy networks across Europe and the UK.

Many core energy assets are decades old and were never designed for the environmental stresses they now endure. Failure rates are rising, maintenance demands are increasing and network reliability expectations continue to grow. This combination highlights the urgent need for modernisation, predictive insight and stronger resilience strategies.

# 1/3

of the United Kingdom's offshore wind farms will reach the end of their originally anticipated operational design life by 2035.



# 63

years old is the average age of electrical transformers across the UK, leaving much of the grid operating at or beyond expected lifecycle limits.



Renewable adoption is essential for national climate goals, but it introduces complexity due to variable output from wind and solar assets. Grid operators must manage this variability while maintaining reliability and preparing for electrification and emissions targets.

## The role of AI, meteorological insight and IFS Cloud (IFS Cloud)

Industrial AI is increasingly essential for utility management. AI analyses performance data, sensor readings and environmental conditions to provide predictions, early warnings and optimisation opportunities.

AI supports utilities with forecasting failures, identifying environmental risks, enabling condition-based maintenance, improving renewable output and informing long-term investment strategies.

**8%**

of lost wind turbine energy is caused by inadequate blade maintenance.



Meteorological insight is another critical capability. IFS Cloud (IFS Cloud) integrates live weather feeds, satellite data and long-range forecasts to improve planning and strengthen asset resilience.

Utilities can better understand flood risks, anticipate storm-related failures, forecast wind-related stress and estimate renewable output. These insights enable proactive planning and more effective resource deployment.

Black Sky events, which require complete grid restoration, demand highly coordinated processes. IFS Cloud (IFS Cloud) supports scenario planning, restoration workflows, multi-team coordination and visibility across operational activities.

IFS Cloud (IFS Cloud) supports large utilities with complex operational structures across onshore and offshore environments.



AI also strengthens post-event restoration by identifying damage zones, supporting prioritisation and optimising workforce routes. It informs long-term investment by assessing asset risk, modelling lifecycle cost and evaluating environmental impact.

Platned combines deep industry knowledge with proven implementation capability for IFS Enterprise Asset Management (EAM), IFS Asset Performance Management (APM), IFS Asset Investment Planning (AIP), IFS Planning and Scheduling Optimisation (PSO) and IFS ERP and Finance to help utilities modernise operations and achieve sustainable transformation.

