



# Challenges for Renewable Energy EPCs and Utilities

Large infrastructure projects within the renewable energy sector often come with risks like scale of the project, extreme weather conditions and navigating through regulatory landscape. Such risks are better managed by leveraging the right technology and solutions built for the energy sector.

In this infographic, we highlight five key challenges for renewable energy EPCs (Engineering, Procurement and Construction) and utility organizations and examine the role of technology in overcoming these challenges.

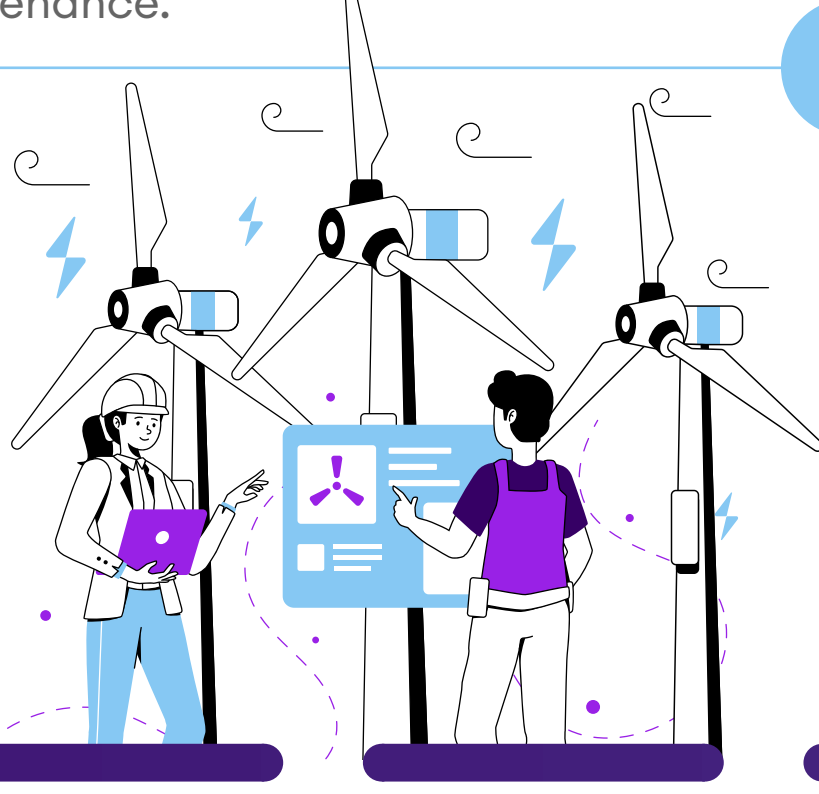
## 1 Transparency and visibility

Utilities need full visibility through the construction, operation, and transfer of power generation assets. Therefore, supervision “from cradle to the grave” is essential. When the utility receives an asset from the EPC, it benefits from the continuity of the software that has been used between the process of building and operation of the power plant.

### IFS Solution ✓

IFS Cloud connects all aspects of these large infrastructure projects, providing industry-leading enterprise resource planning (ERP) and asset management (EAM) technologies. IFS EAM simplifies this challenge by offering a complete end-to-end asset lifecycle management solution. The integrated platform allows you to be in total control all aspects of the asset lifecycle, from initial planning, through engineering and construction, to the ongoing service and maintenance.

[Learn more](#)



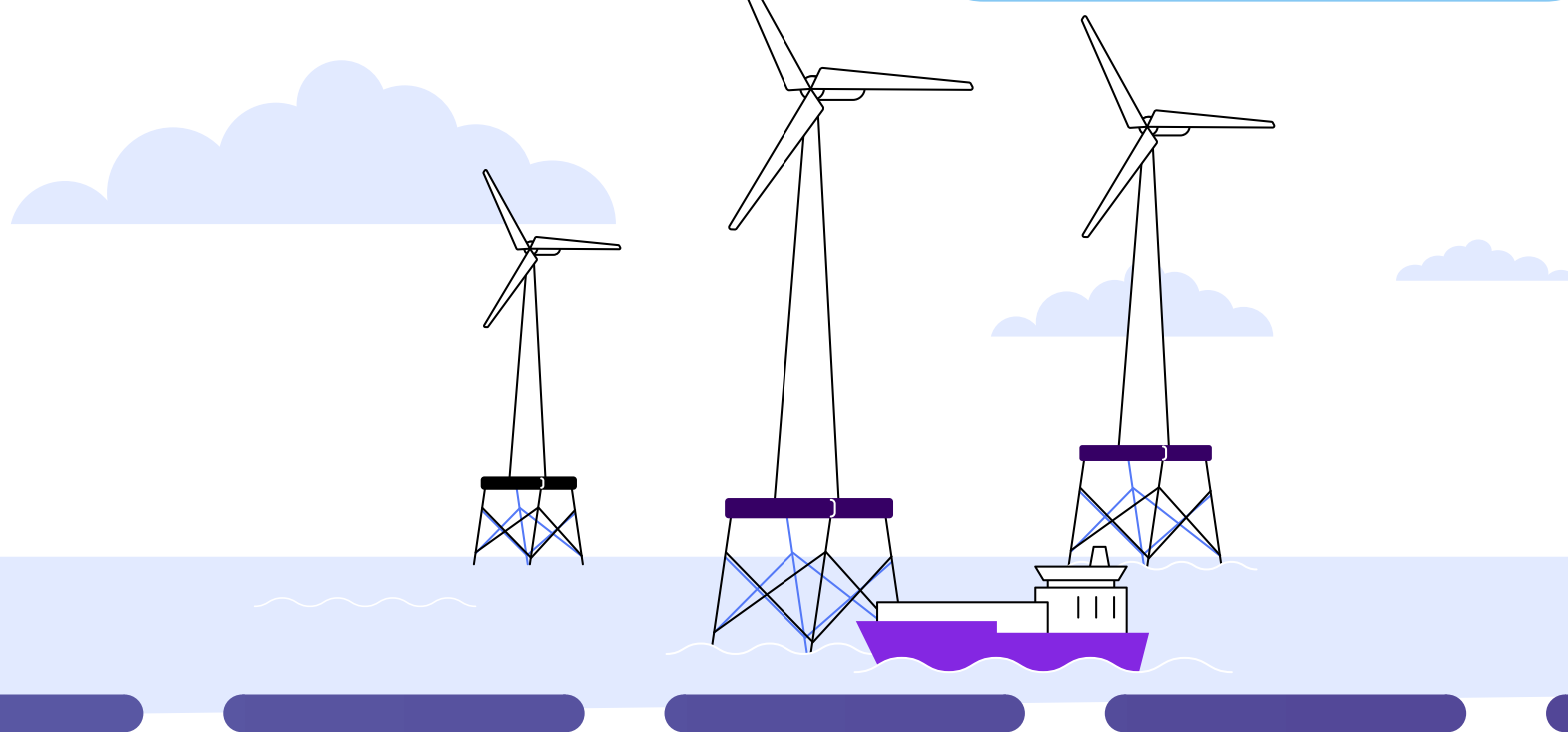
## 2 Complex Construction

The era of easy wind farms is over. New locations are remote and embedded in difficult landscapes, whether onshore or offshore. Complex engineering tasks benefit the most from “best of breed” software solutions. Operational connectivity must be in place at the earliest stage of the project. The insights garnered as the project evolves serve to measure progress, identify areas that require further scrutiny, and ensure a financially viable outcome when the project is complete. Determining project success happens during the initial estimate - EPCs need to ensure their project assets are being used in the right environment for their design, their service requirements are being measured and recorded, and there is enough capacity in other assets to cover for service periods or potential breakdowns or losses. Many of these environments are harsh and remote so the right solutions are vital to manage this challenge.

### IFS Solution ✓

IFS provides full support for construction, operation & maintenance of sustainable energy plants. IFS customer Hitachi Zosen INOVA, a global cleantech company, relies on IFS Cloud to deliver complex turnkey plants and system solutions. These initiatives include thermal and biological energy-from-waste recovery, gas upgrading, and power-to-gas projects.

[Read customer story](#)



## 2

## 3 Asset Maintenance and Monitoring

Timely scheduled and preventive maintenance is essential to avoid costly power interruptions or shutdowns. Even more so, to protect renewable assets in remote locations. Using operational data, KPIs quantifiably measure asset performance over time to help lower costs, improve safety and productivity, and meet clean energy objectives. While all KPIs serve a purpose, one measurement—although often overlooked, serves energy companies particularly well i.e. unplanned maintenance.

### IFS Solution ✓

Understand the complete view of your asset position and improve asset availability, reliability and the services you provide with IFS EAM software. Monitor the health of assets, drive predictive maintenance, and quickly repair failures without impact to productivity.

[Learn more](#)

Discover how successful energy companies are tapping into the data behind unplanned maintenance to anticipate and avoid unexpected downtime.

[Read Executive Summary](#)



## 4 Inventory Management

Huge inventories are costly and inefficient. Yet, the lack of spare parts could stop a multi-million-dollar power infrastructure project, over a damaged equipment only costing a few hundred dollars. The right software for inventory management can help strike the right balance.

### IFS Solution ✓

IFS Planning & Scheduling Optimization enables you to manage the strategic, operational and tactical elements of resource planning. It allows you to forecast and model requirements for better strategies, improve planning and rostering for more efficient operations and deliver tactical benefits through IFS Dynamic Scheduling Engine™ (IFS DSE).

[Explore how](#)



## 4

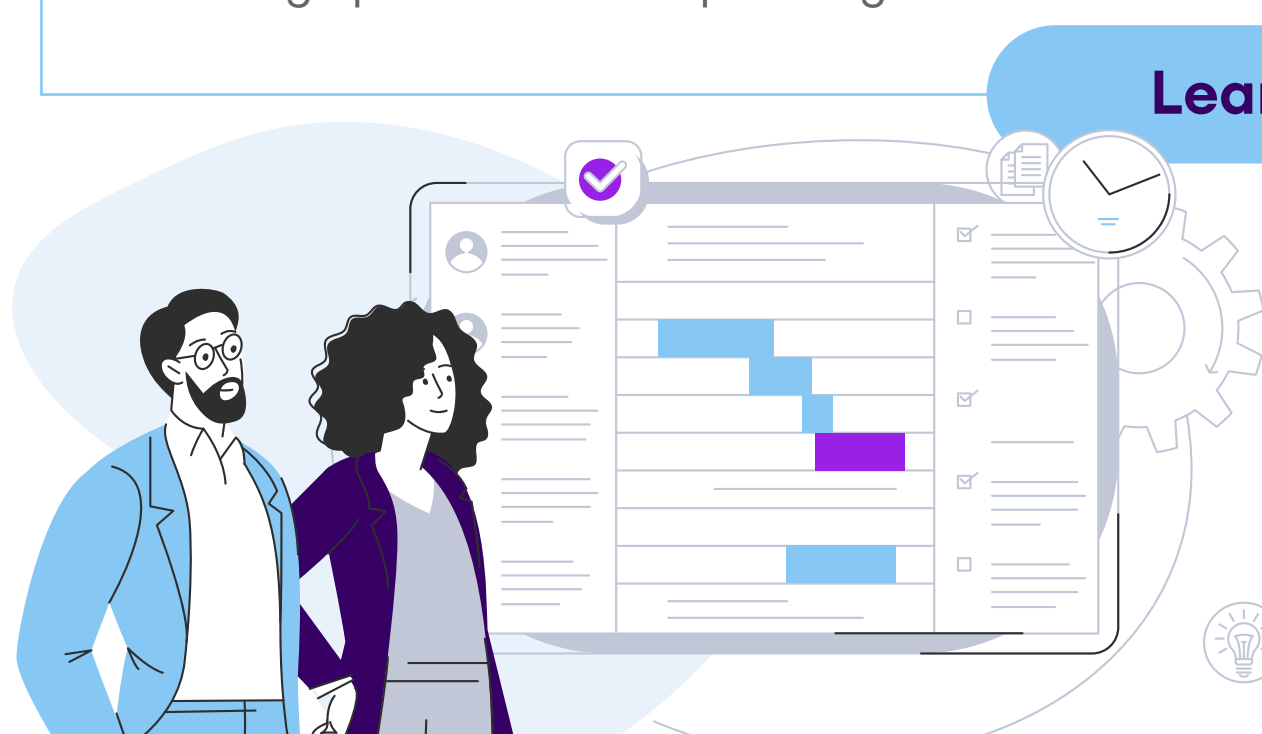
## 5 Workforce Management

Qualified personnel are scarce and always overbooked. Change is constant, so scheduling should be, too. For true efficiency, and to meet challenging SLAs, you need to balance competing priorities with incoming jobs and traffic, while looking for opportunities with better jobs and planned maintenance. Artificial Intelligence can offer solutions to organize workforce deployment better.

### IFS Solution ✓

IFS offers real time AI optimized workforce planning software and workforce management software to boost first-time-fix and customer satisfaction. IFS Planning and Scheduling Optimization helps organizations better manage their field resources resulting in improved customer satisfaction, increased productivity and better adherence to customer commitments. IFS Planning and Scheduling Optimization consists of a range of modules that can either be implemented separately or integrated to form a powerful tool that provides visibility, scheduling optimization and planning of mobile resources.

[Learn more](#)



To find out how IFS can help with these challenges, please visit: [www.ifs.com](http://www.ifs.com)

[Get in touch today](#)