

Optimising Operation

Your specialist for the operational
management of wind farms, solar power
plants and battery storage systems



Energizing
Sustainability



Our commitment.

Excellence for your plant

For around 30 years, we have been providing technical and commercial management and maintenance services.

The requirements for operating renewable energy plants today are diverse and highly complex. This is no surprise. Wind and solar farms have become an integral part of the power supply – and must operate safely and reliably. JUWI ensures that these demands are met. For nearly 30 years, we have been successfully monitoring and optimising the technical operation of plants from various

manufacturers. Additionally, we manage the commercial operations of nearly 200 operating companies for over 600 national and international investor groups and clients – ranging from individual operators and cooperatives to public funds, energy suppliers, and institutional investors. This is a wealth of experience you can rely on.



Why choose on JUWI



One contact person

At JUWI you will be personally advised by your highly qualified account manager.



Reliable partnership

JUWI is part of the MVV Group. You too can benefit from the financial strength and energy industry expertise of MVV.



24/7 monitoring

We monitor your plants around the clock and can, therefore, react quickly in the event of a disruption.



Active error detection

We increase your yield by continuously optimising plant availability.



Certified IT Security

We regularly have our information security management system audited in accordance with the requirements of ISO 27001, as we are part of Germany's critical infrastructure.



Assumption of operator responsibility

The JUWI GmbH can assume operator duties within the scope of DIN VDE 0105-100 and, therefore, decrease the workload for you.



Expertise

We provide advice on non-standard commercial topics such as electricity revenue, insurance, electricity tax, and legal updates.



Optimisation and consulting

We optimise direct marketing contracts, costs and insurance packages, carry out refinancing and prepare individual commercial analyses and reports.



Innovative services

With our own O&M product development, we continuously enhance our service offerings to ensure that we use state-of-the-art technology.



Certified quality

The quality management system of the JUWI Group is certified according to the German DIN ISO 9001 : 2015.



Our range of technical and commercial management, 24/7 monitoring and maintenance services ensures optimum yields and the best returns – for many years to come. You decide on the individual service modules and we provide expert support throughout the entire life cycle of your renewable power plant. Owing to our long-standing and intensive collaboration with leading plant and component manufacturers, you will always be at the cutting edge of technology with us.

Modern control centre

All wind and solar farms are monitored in the 24/7 control centre at JUWI's headquarters in Wörrstadt. The control centre is the heart of our operational management and guarantees the best possible availability and high electricity yields. Our employees keep an eye on your plants around the clock, 365 days a year. This ensures that malfunctions are quickly resolved. Moreover, we use the operating data to continuously optimise plant performance.

Inspection, maintenance and repair

A central part of our operational management services are on-site service calls at power plants. Our experienced and qualified teams plan, manage and carry out inspections, maintenance and repairs. Most importantly for you: With our comprehensive scheduling and deadline management, we ensure contract-compliant maintenance of your plants and secure safe operation. Additionally, we plan repair and maintenance phases in coordination with our service partners to account for high-yield periods such as strong wind phases or times of high solar radiation.

Commercial Management

The commercial side of business management is just as important. Our experts take care of contract management, annual financial statements and insurance issues. Furthermore, they monitor the fiscal and regulatory aspects, as well as the developments in the electricity markets. In summary, we are here to provide you with advice and support whenever expert knowledge on commercial matters is needed.



Your wind or solar farm.

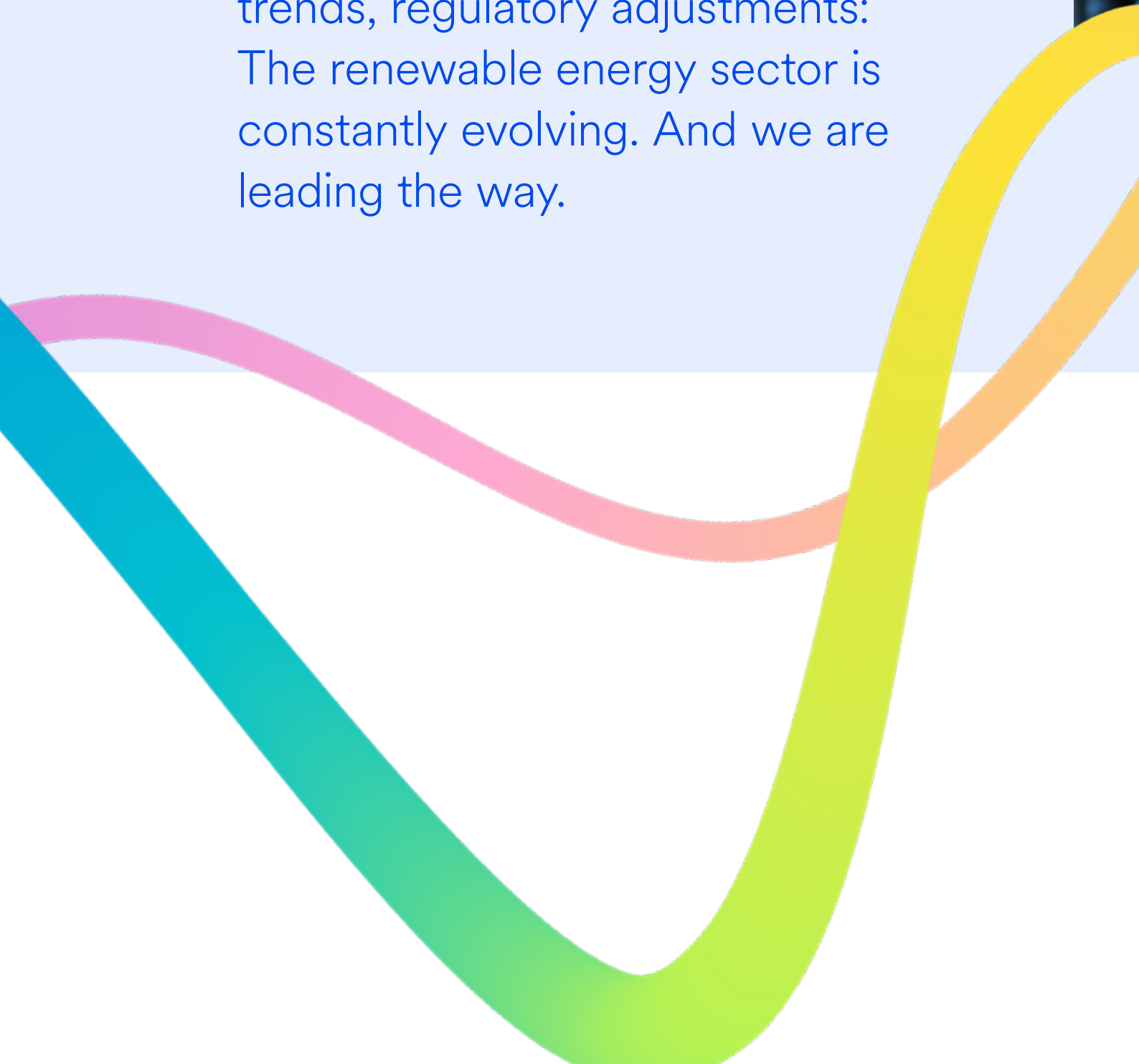
When your wind farm, solar power plant, or battery storage system goes into operation, you need experts to ensure everything runs smoothly. We make it happen.



The future.

Is already in
progress with us

New technologies, market trends, regulatory adjustments: The renewable energy sector is constantly evolving. And we are leading the way.





As one of the leading operations managers, we have the ambition and the expertise to offer our customers innovative solutions. And we deliver on that promise. Taking battery technology as an example: With the increasing share of renewable energy in electricity generation, storage solutions are rapidly gaining importance. JUWI has been proactive in this area and offers comprehensive services for large battery storage systems.

Maximising returns through innovation

Innovation also plays an important role in the operational management of wind and solar farms. We are among the pioneers in adopting new solutions early, optimising operational times and maximising energy yield in our clients' power plants. In the solar sector, for example, we have been able to achieve significant increases in yield for operators by repowering inverters or with additional module coating. Using drone-based thermographic inspection methods, we can identify faulty modules and, thereby, enhance the performance of solar power plants.

When implementing regulatory requirements, such as those for wildlife-friendly operation of wind turbines, we provide innovative solutions for our clients. One example is the 'Fleximaus' system, which allows curtailment times to be managed reliably and flexibly.

We are also proactive when it comes to security. As the operator of a plant portfolio that could theoretically supply a large German city with electricity, we are already making a significant contribution to Germany's energy security. We actively embrace this responsibility. That is why we lead the way in information and data security, regularly undergoing external audits for critical infrastructure companies. Additionally, we take protective measures against cyberattacks, such as implementing patch management for routers. With Secure Connect, we offer professional router management that detects unauthorised access to your power plants and meets the high standards required for critical infrastructure.



Our style.

Partners at eye level

Our technical and commercial customer advisors are your direct link to us.

This gives your collaboration with JUWI a personal touch.

We are eager to understand your concerns. Effective operations management thrives on regular communication with you. Our technical and commercial customer advisors are your personal points of contact. Let's talk.

Customised solutions

Of course, we provide all standard services in technical and commercial operations management and maintenance. Additionally, we have the capacity to offer solutions tailored to your needs – customised and not off the shelf.

Often the aspects that are hard to define in operations management contracts make the difference. Good advice is undoubtedly one of them. With the many innovations in renewable energy, it is crucial to have a partner who thinks ahead, is well-connected, and keeps your interests in focus.

At JUWI, we have an extensive network of diverse experts right within our company. This keeps us at the forefront of developments and allows us to provide answers to all kinds of questions. Our customers gain from this expertise, and our service team ensures you receive excellent support.

Our experience

Yours to Explore

When asked about our expertise, we prefer to respond with specific examples. Here we present some of them.



1,265 MW



600 MW



166 MW

Nationwide operations management and remote monitoring

More than 2,000 megawatts

In Germany alone, JUWI manages and remotely monitors more than 2,000 megawatts of installed capacity. Worldwide, the total capacity is at around 5,000 megawatts. Particularly, the service for large battery storage systems is growing rapidly. JUWI now manages large storage systems with a capacity of 166 megawatts and a storage capacity of 326 megawatt-hours.

Rejuvenation programme for solar farms

In recent years, JUWI has replaced around 720,000 modules in 18 solar farms. This corresponds to an output of around 120 megawatts. And these were not always defective modules. Since 2023, intact modules that have lost power over the years can also be replaced within an existing EEG subsidy. The keyword is revamping. Another revamping option that is available for operators is the replacement of inverters. JUWI boasts several reference projects in this area.



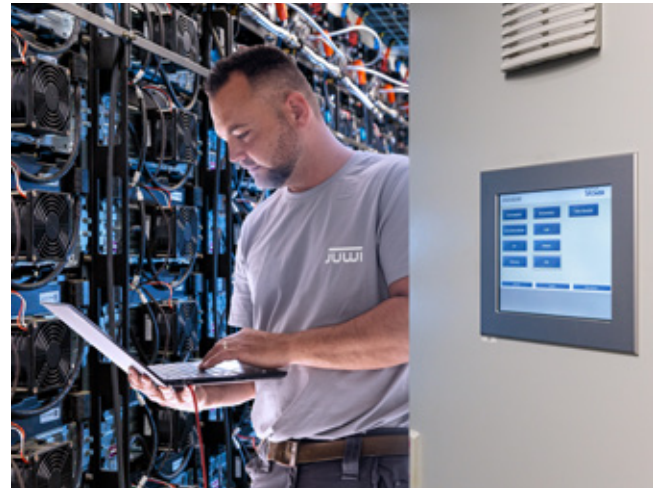


Protecting Red Kites in wind farms

The operation of many wind farms is subject to nature conservation requirements. Operators require the expertise to comply with these regulations. Take the red kite, for example: The strictly protected bird of prey plays an important role in many approval procedures. Therefore, JUWI established a close coordination with local farmers at sensitive locations to minimise yield losses. Through this coordination low wind phases are taken into account during cultivation and fieldwork is consolidated, so that curtailment phases can be minimised.

Maintenance and operational management of battery storage systems

Since 2021, JUWI has been responsible for the maintenance and troubleshooting of a ten-megawatt lithium-ion storage system in Belgium. This first storage project was followed by many others. JUWI now takes care of the maintenance and operational management of numerous large battery storage systems in Germany and the Benelux countries. These are both combined projects with wind or solar farms as well as stand-alone storage facilities.



Certified IT security

Ensuring protection against IT threats is a top priority for us. As operators of energy plants, we are committed to meeting the highest and most current security standards in IT. To achieve this, we operate an ISO 27001 audited information security management system, which undergoes rigorous and regular examination by auditors.

Dual safeguards

Operators of renewable energy systems are legally obliged to carry out a regular DGUV V3 inspection of their power plant in Germany to prevent electrical accidents. JUWI has its own team of experts for all medium-voltage issues. This team inspects the plants in accordance with DGUV V3 regulation and ensures that all statutory inspection obligations are met. When it comes to safety in wind and solar farms and a quick response in case of faults, such expert know-how often makes a crucial difference for operators.





Passionately committed

Our commitment to sustainable practices and renewable energy is more than just a business idea. That is why we work in one of the most energy-efficient office buildings in the world in Wörrstadt. We source the products for our company cafeteria juwitality fresh from the region, and balance work and family thanks to our company daycare center juwelchen. With locations in many federal states of Germany, JUWI is strongly rooted regionally. Worldwide, more than 1,350 employees work at JUWI to enhance renewable energy. Together with

our parent company MVV Energie, we are pioneers in transforming energy systems. MVV is one of the leading energy companies in Germany with ambitious climate goals. By 2040, the publicly listed company aims to be climate-positive with its more than 6,500 employees. To achieve this, MVV focuses on sustainable growth in renewable energy, strengthening energy efficiency and combined heat and power, as well as on intelligent, high-performance networks, professional, future-oriented products and services, and innovative business models.

Our value chain



Site selection & land acquisition



Development & approval



Tender & feed-in tariff



Engineering & procurement



Implementation & grid connection



Financing & sales



Operation & service



Continued operation & repowering

Let's start the conversation.

We look forward to hearing from you!

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