

# ENERTRAG OPERATION

Your competent partner for technical management and inspections and tests throughout Europe.

# **ENERTRAG Portrait**

# Energy system management - on site every day for over 30 years

With over three decades of experience in wind energy, we are your partner for the technical management and inspection of renewable energy systems. Our comprehensive portfolio ranges from services in the balancing energy market and innovative hybrid power plants to photovoltaic systems and stationary battery storage systems. At six locations, our teams of experts ensure the safe and economical operation of more than 1,200 renewable energy plants - reliably, sustainably and with an eye to the future.

# Valuable synergies for customers

# **DEVELOPMENT**

# Who plans wins

We successfully plan projects with foresight and close to the people.

# **OPERATION**

# Runs like a charm

We ensure the safe and successful operation of renewable energy systems.

# **POWERSYSTEM**

# Let the data speak

We automate processes, monitor, control and network energy systems and substations substations - precisely and to the minute.

# **SERVICE**

# It's moving forward

We reliably maintain photovoltaic and wind energy systems reliably and solve problems quickly and easily.

# **TECHNOLOGY**

# Building a better bulb

We equip wind turbines with intelligent flight safety identification.



Michael Dahm Managing director ENERTRAG Operation

# SINCE:



## INSPECTIONS

IN COOPERATION WITH:



# **SERVICES**

> INSPECTIONS & **CHECKS** 

> TECHNICAL MANAGEMENT

# **DRONE INSPECTION**

IN COOPERATION WITH:





# **LOCATIONS**

**DAUERTHAL BERLIN EDEMISSEN HAMBURG** DURY (F) NEUVILLE (F)



# WITH FOCUS ON

POWER-TO-X, STORAGE SOLUTIONS. **CONTINUED OPERATION** CONCEPTS







 $2.7 \, \text{GW}$ **Facilities** monitored



# Technical management

# Your benefits at a glance

Our control centers not only monitor renewable energy systems in real time, but also respond immediately in the event of faults - 95% of all

processes are processed after just a few minutes. Thanks to the VERA robot control room, you also benefit from response times that are well below the contractual requirements. Thanks to our continuous monitoring, we quarantee maximum

energy availability as if we were always on site. Benefit from our knowledge of the many different types of systems: We combine expertise

from different specialist departments to create the greatest possible synergies for you. This allows you to benefit from holistic yet focused operational management. We have specialized teams for customized solutions. This ensures

that we can both maintain an overview and set thematic priorities that are transparent and comprehensible for everyone.

## For the areas

- > wind energy
- > photovoltaics
- > battery storage
- > transformer stations
- > biogas
- > power-2-X
- > hydrogen

# Flexible and customised

- > Experienced network: customised solutions solutions through bundled expertise.
- > Efficient operational management: optimisation of your renewable energy systems for maximum performance.
- > Reliable damage assessment: fast and well-founded protocols and reports in the event of damage.
- Continued operation: maximising the efficiency and maximising the efficiency and service life of your old systems.



# POWERSYSTEM Let the data speak

THE PROFESSIONAL HARDWARE AND SOFTWARE SOLUTION FOR RENEWABLE ENERGIES

# **ENERTRAG POWERSYSTEM**

- Optimised operation and networking of renewable energy systems
- > For plant managers, operators, asset managers, direct marketers, transformer station operators
- > Automated condition monitoring, e.g. BImSchG
- > Certified according to ISO 9001:2015 and ISO/IEC 27001
- suitable for the operation of critical infrastructures according to KritisV
- > High data quality thanks to the control of our data stream control centre





TECHNICAL MANAGEMENT, SAFETY CHECKS AND INSPECTION BODY

# **ENERTRAG Operation**

Technical management, inspections and testing of all renewable energy plants

- > Technical management, inspections and tests for wind/solar parks, biogas plants and battery storage systems
- > Certification in accordance with DIN ISO 9001

# Inspections and checks

# Impartial seal of quality

Trust in the renewable expertise that is underlined by accreditation in various test procedures in accordance with DIN EN ISO 17020. The advantage of an accredited inspection body: once tested, accepted everywhere. This gives you the certainty that reports and protocols will be recognised by the authorities and insurance companies without any problems. Our team works with state-of-the-art technology and innovative methods to provide the best possible support for your systems. We ensure that your systems are operated safely and efficiently.

# We offer

- > Post commissioning Inspection
- > End of warranty Inspection
- > Safety checks
- > Object-orientated risk assessment
- > Condition-based maintenance Inspection
- 20 year lifetime extension verification (Inspection and Analysis)
- > Inspection of rotor blades (also with drones)
- > Inspection of gearbox
- > DGUV V3 check
- > Periodic inspection

# Experience flying precision

Our drones meet all the requirements of the BWE guideline for lightning protection tests. With our technology, we can ensure that your wind turbines meet the highest safety standards and are optimally protected against lightning strikes. Equipped with state-of-the-art cameras, we deliver razorsharp images of your rotor blades. These precise images enable a detailed inspection and documentation of the condition of your turbines.

Through regular inspections and the use of advanced analysis tools, we can closely monitor the development of damage to your rotor blades. This allows us to intervene at an early stage and plan repairs before major damage occurs. Every minute your turbine spins means a contribution to your financial success.

# Your safety is important to us

Experience and expertise from over 4,800 inspections a year, combined with our new focus on safety technology, enable us to offer you a comprehensive solution.

Focus on prevention: Our dedicated teams not only take care of the prescribed inspections, but also offer comprehensive safety solutions. From crane and lift inspections to inspections of fixed ladders and the replacement of fire extinguishers - we are your reliable partner for the highest safety standards.

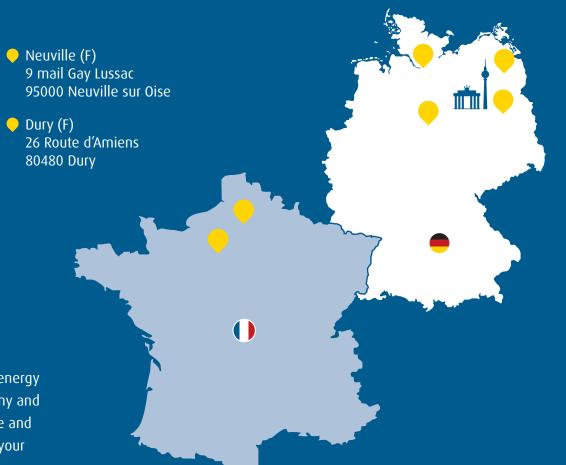




# Our locations

- DauerthalGut Dauerthal17291 Dauerthal
- BerlinFriedrichstraße 15210117 Berlin
- EdemissenEddesser Straße 831234 Edemissen
- HamburgTrostbrücke 120457 Hamburg

We reliably look after your energy systems throughout Germany and beyond - including in France and Poland - reliably look after your energy systems.



# Kontakt

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