

start  up

Start-ups are entering the market with new ideas.  
A selection is presented on the following pages.  
Be inspired by their innovative power.



An excerpt of the  
BWE Industry Report  
'Wind Industry in  
Germany 2024'



# Baubüro Kaatz GmbH – Wind farm project implementation in the North!

If you are a project planner, farmer, or successful businessperson and need support for the construction of your projects, we would be glad to put our knowledge and our professional network at your disposal as a project partner. We can assume responsibility for the overall construction management and work with you to ensure the success of your project.

**T**he path from the initial project idea to the operation of a wind farm is a long and often rocky one. We can provide you with competent support thanks to our many years of experience in the renewable energy sector. Based on our project implementation experience, we can support you throughout work phases 5–9 in accordance with the German Fee Structure for Architects and Engineers (HOAI).

As soon as your wind energy project has been planned and approved, it is time for the challenging project implementation phase in which a plethora of trades have to work together in a coordinated and timely manner. Our experience in construction coordination ensures that the project will run smoothly and that the costs are kept under control. Of course, we can also support you with your repowering projects.

**“Our overall aim is to contribute to leaving a clean and liveable planet not only for our children, but also for future generations. Together for the future!”**

*Hendrik Kaatz,  
Founder and Managing Director*



Installation of the scar at the wind farm Reher in June 2023 (Photo J.Weidkamp)





View of Jevenstedt wind farm in June 2023 (Photo J.Weidkamp)

**As an external construction management company, we can provide you with support in the planning and construction of wind turbines**

Our team will provide you with project support right from day one. To ensure that everything runs smoothly, we take the lead in planning, coordinating, and monitoring your construction sites.

We manage the entire wind energy production process and cover:

- Implementation planning
- The tendering process
- Contract award assistance
- Site monitoring – construction supervision and documentation, deadline management, and construction progress monitoring
- Site supervision and cost control
- Official approvals coordination

**A selection of our current projects**

- Windpark Jevenstedt  
Construction of 9 Vestas wind turbines (8 x Vestas V136-4.2 MW, 1 x Vestas 136-4.2 MW) – Greenfield
- Windpark Reher  
Construction of 12 Vestas wind turbines (2 x Vestas V136-4.0/4.2 MW, 2 x Vestas V150-5.6/6.0 MW, 8 x Vestas V162-5.6/6.0 MW) – Repowering
- Bürgerwindpark Friedrich-Wilhelm-Lübke-Koog  
Construction of 3 wind turbines by Siemens Gamesa (3 x Siemens Gamesa SG 6.6-155) – Repowering
- Windparkprojekt Rohlsdorf  
Construction of 4 wind turbines by Nordex (3 x Nordex N133, 1 x Nordex N149) – Greenfield

**Conclusion**

**Kaatz GmbH & Co. KG was founded by Hendrik Kaatz in 2022 in Felde near Kiel after more than 13 years of experience as a project manager and senior construction manager for wind power projects. We provide comprehensive services in overall construction management from a single source based on our many years of experience, in-depth specialist knowledge, and the best contacts in the industry.**



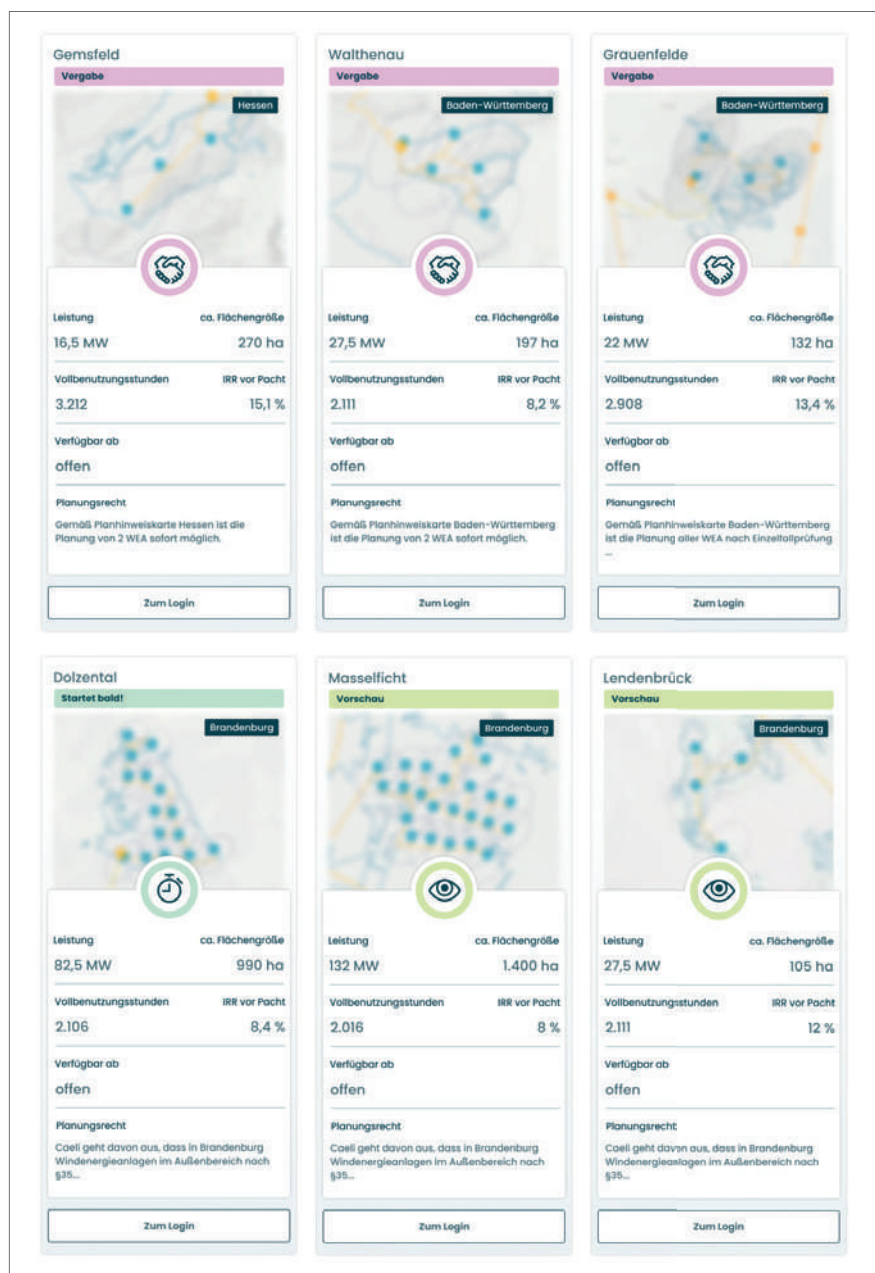
The team from Baubüro Kaatz GmbH & Co. KG (Hendrik Kaatz, Dr. Kerstin Coester, Jan Weidkamp, from left to right)

# Caeli Wind – The marketplace for wind power area

Caeli Wind offers a range of potential wind sites across Germany that have been AI-checked which can be tendered quickly and easily using digital and intelligent methods.

**A**dvancing wind power with Caeli Wind: in order to achieve the expansion targets for wind energy in Germany, we need commitment and intelligent technologies. We want to be part of this, which is why we established Caeli Wind, the first digital marketplace for wind energy sites that significantly expedites the site assessment, planning, and tendering processes. The cutting-edge software on our platform brings together landowners and project developers and supports all key wind sector stakeholders.

IT and AI for supply security: Caeli Wind is a cloud-based platform, which identifies potential sites for wind turbines on behalf of landowners and enables them to be professionally marketed. Our software verifies all the important criteria from regional planning to grid connection and economic viability, which increases the probability of implementation and expedites the development of wind energy production. This benefits landowners, the utility industry, and Germany as an energy production location.



The Caeli wind marketplace



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Founding year **2021**

Focus

- Land marketing
- digitalisation

We offer

- Identification of potential wind power sites, AI-supported analysis & marketing for landowners
- A broad selection of wind power sites on our digital marketplace for project developers
- Facilitation of the tender process up to the signing of the licence agreement

We are looking for

- Project developers
- Collaboration partners
- Further development opportunities



Our analysis tool

**Our product and service range:**

- A wide selection of tested potential wind power sites throughout Germany
- Detailed site information relating to planning law, initial faunistic report, air traffic control, and grid connection etc.
- Open, non-discriminatory award procedure in the form of qualified auctions or direct contract awards
- A standardised neutral concession agreement from Caeli Wind
- Payment only in case of success: Performance-based commission for signing, BImSch and entry in the market master data register



**“Caeli Wind is an easy-to-use platform with unique analytics that consolidates the fragmented onshore wind market.”**

*Heiko Bartels, Managing Director Caeli Wind*

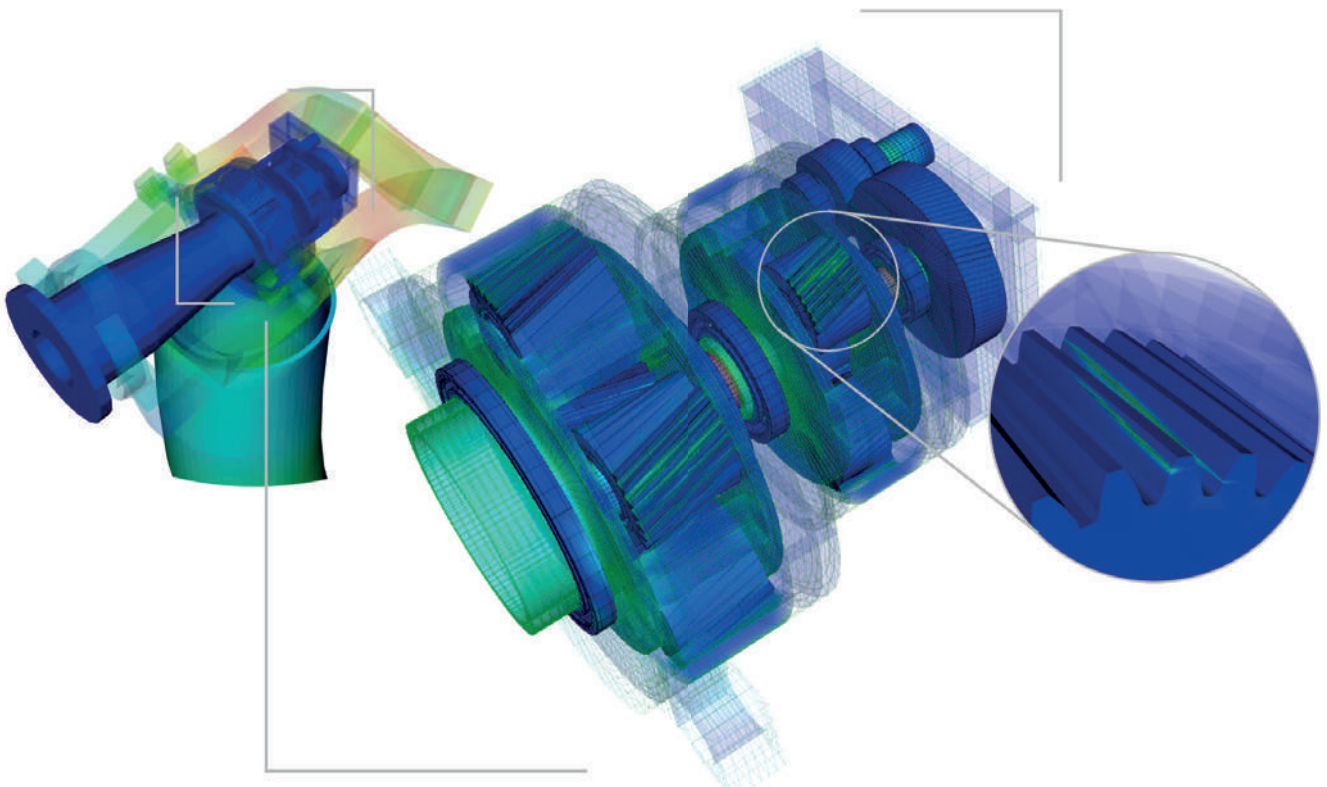
**Conclusion**

**Caeli Wind is the first digital marketplace for wind power sites and significantly speeds up the site allocation process. Our expertise is at your disposal from the provision of the documents to the submission of the tender.**



# Simulation solutions for the wind industry – COMPOSE Technologies GmbH

Our engineering services and software technology solutions will provide you with support for strength and vibration problems throughout the entire product life cycle, from the design phase to the resolution of operational problems in the field.



Simulation result visualization: The software makes it possible to analyse the influence of small changes (in the  $\mu\text{m}$  range) to the gear geometry on the full wind turbine model.

**T**he constantly increasing market requirements for wind turbines present the industry with a multitude of challenges. Sound emissions have to be minimised, costs reduced, and materials used sparingly. Innovative solutions are more necessary than ever in this dynamic sector. Having spent many years in the wind sector our team of company founders is all too familiar with

the relevant issues. COMPOSE Technologies GmbH's services and products provide the wind turbine industry with customised simulation solutions.

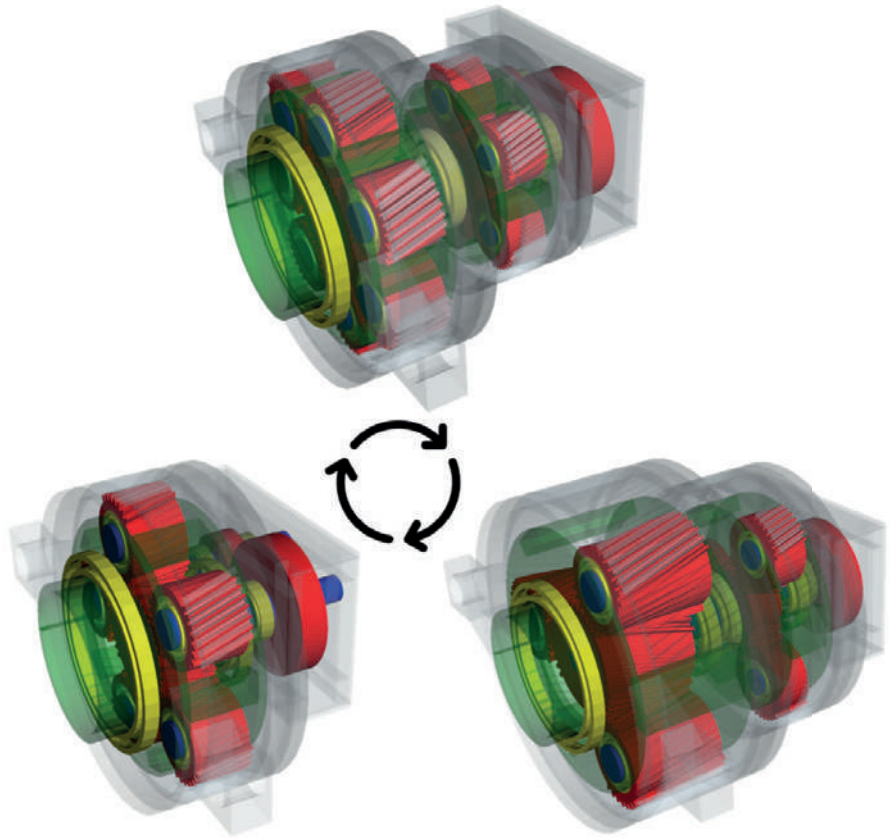
For the first time ever, our software enables the various mechanical components of a wind turbine (such as gearbox, machine carrier, bearings, tower and rotor blade) to be consistently simulated as they

operate together in a coupled model, thus correctly predicting the interactions. We have achieved a previously unattainable ratio of result quality and calculation time through our innovative algorithms. We also offer our users an extensive library of easily customisable design templates for the various wind turbine components, which means that even those with no expertise in simulations can quickly and

# COMPOSE TECHNOLOGIES

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Founding year	2022
Focus	Development and distribution of simulation software.
We offer	<ul style="list-style-type: none"> <li>• Customised simulation software for the wind sector</li> <li>• Customised extensions</li> <li>• Engineering and software development services</li> <li>• Consulting for solving strength and vibration problems</li> </ul>
We are looking for	<ul style="list-style-type: none"> <li>• Projects</li> <li>• Collaboration partners</li> <li>• Test users for simulation software</li> </ul>



Automatically generated gearbox models: design templates enable the generation of all wind turbine components based on a few parameters as well as a speedy comparison between variants.

reliably create detailed computational models and carry out parameter studies. The level of detail produced by the models can also be easily controlled so that both traditional multi-body simulations and finite element analyses can be carried out using the same model.

We also help our customers to solve operational issues, such as noise problems or serial damage to specific components. Our technology enables the development of targeted remedial measures within a short period of time. Thanks to the high quality of the results and the coupling of the entire wind turbine system, our software is also ideally suited for predicting gearbox noise problems.

This not only saves our clients from time-consuming and costly remediation, but also prevents negative impact on their reputation.

In addition to our software products, we offer a wide range of engineering and software development services.

## Conclusion

**With our innovative software solutions, we want to enable our customers to quickly and safely develop cost-optimized products and solve existing operational problems.**



The founders Thies Hecker, Christian Schönke and Gabriel Gebre Musie (Photo: Sven Wied)

# Revolutionary innovation in the wind energy sector: DronoDat's End-to-End Solution

The startup DronoDat is fundamentally reshaping the wind energy industry at the center of innovation in Magdeburg. DronoDat combines advanced drone technology with artificial intelligence to create an era of increased efficiency and safety in the inspection and maintenance of wind turbines.



## **Precise site mapping**

DronoDat starts every wind turbine project by mapping the installation site, using state-of-the-art drone technology to record precise topographic data, which not only facilitates the precise construction of the foundations, but also optimises transport route planning to simplify and expedite the installation process.

## **Efficient transport and flawless installation**

Transporting components for wind turbines presents logistical challenges, which DronoDat solves by efficiently integrating drones into the process. Ground based teams work actively with these drones to help ensure the seamless transport of critical components thus ensuring that DronoDat is able to make a significant contribution to the safe and timely transfer of essential elements.

## **State of the art inspection methods and real-time monitoring**

DronoDat combines artificial intelligence with drone technology to fundamentally change the way wind turbines are inspected. This combination ensures accurate data acquisition and early detection of defects, from structural cracks to erosion and lightning damage resulting in a tangible reduction in downtime and increased safety throughout the entire operating process.

## **Comprehensive documentation and unrestricted access**

One of the key added values of DronoDat is the comprehensive documentation it provides: every detail of the inspection





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LinkedIn: <a href="https://www.linkedin.com/company/dronodat/">www.linkedin.com/company/dronodat/</a>	
Founding year	2021
Focus	<ul style="list-style-type: none"> <li>• Surveys</li> <li>• Mapping</li> <li>• Inspection</li> </ul>
We offer	<ul style="list-style-type: none"> <li>• Topographic surveys &amp; mapping</li> <li>• Wind turbine inspections</li> <li>• PV system inspections</li> </ul>
We are looking for	<ul style="list-style-type: none"> <li>• Projects</li> <li>• Collaboration partners</li> <li>• O&amp;M company for wind turbines and PV systems</li> </ul>

process is recorded in digital format to ensure that project managers, insurers, and stakeholders have access to key findings at all times. This seamless data availability promotes informed decision-making and collaboration.

**Innovative path to the future**

Far from being limited to refining wind turbine inspections, DronoDat is fundamentally redefining the face of the wind energy sector. DronoDat’s seamless integration of drone technology and artificial intelligence results in a transformative effect that goes beyond inspection to encompass holistic improvements in safety protocols and operational efficiency.

**Conclusion**

Dronodat is a data and drone services start-up founded in 2021. Our aim is to automate conventional working methods and to provide the market with customised, digitalised solutions. Dronodat is revolutionising the way wind turbines are surveyed and inspected through a combination of drones and artificial intelligence to provide both a digitalised topographic site localisation service and a detailed and automated inspection of existing wind turbines.



Examples of defects detected in wind turbines.

# enviConnect – digitalising wind energy

enviConnect is facilitating the faster expansion of wind energy by using automated workflows in the wind farm life cycle, thus enabling the expansion to be scaled up without having to hire new professionals.

The wind energy expansion targets are well-defined: in Germany alone, 115 GW of onshore wind energy will have to be installed by 2030. Despite the fact that wind energy production is booming, the industry is facing a problem: more wind farms mean more data that needs to be analysed, more decisions that need to be made, and more staff that needs to be hired to do the work, which will require tens of thousands of skilled workers by 2030.

**Our app ecosystem automates workflows**

This is exactly where our technology comes in: we are developing an app ecosystem that automates workflows throughout the wind farm lifecycle and digitises expert knowledge. Each of our apps is focused on

a specific workflow, collects data automatically, and prepares it in such a way that decisions can be made quickly and easily. The data can be accessed at any time and can be reused and shared simply and effectively saving time and personnel as the number of wind energy projects increases.

**Our first app is for wind lidar monitoring**

Our first app is used during the wind farm project planning phase and digitalises wind measurements with wind lidars. Until recently, our customers have often had to manually review the data from the measurement campaigns in order to ensure the quality of the data, which took about 30 minutes per lidar every day. Our app automates the daily data monitoring reading in the data, performing

a quality analysis, and calculating the availability. If measurement problems occur, automated warnings enable the user to react quickly and eliminate the cause. The app also supports campaign management, by writing automatic reports, providing a logbook function for documentation, facilitating the sharing of campaign progress with colleagues and clients, and backing up data to our online cloud.

**“Digitisation does not have to be difficult: it can be achieved step by step by using apps that simplify and speed up workflows.”**



enviConnect is developing an app ecosystem that automates workflows throughout the wind farm lifecycle and digitises expert knowledge



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Founding year 2020

Focus Automation of workflows in the planning, construction, and operation of wind farms

We offer

- Wind lidar data monitoring
- Cloud-based software
- Centralised data storage and access management

We are looking for

- Early adopters for our lidar data monitoring app
- Ideas for workflows that could be digitised
- Investors

### We are an international, diverse team

Our team includes Dr Andrew Clifton, who is the managing director, Dr-Ing. Ines Würth, who is the product owner and responsible for the app functions, and John Asher Rayan M.Sc., a software developer who translates our clients’ needs into programme codes. Together, Andy and Ines have 25 years of experience in the wind energy sector and John worked for major software companies before becoming self-employed. Our current funding comes from the EXIST start-up grant, which is funded by the German Federal Ministry for Economic Affairs and Climate Action (BMWK) and EU funds.

### The next milestones

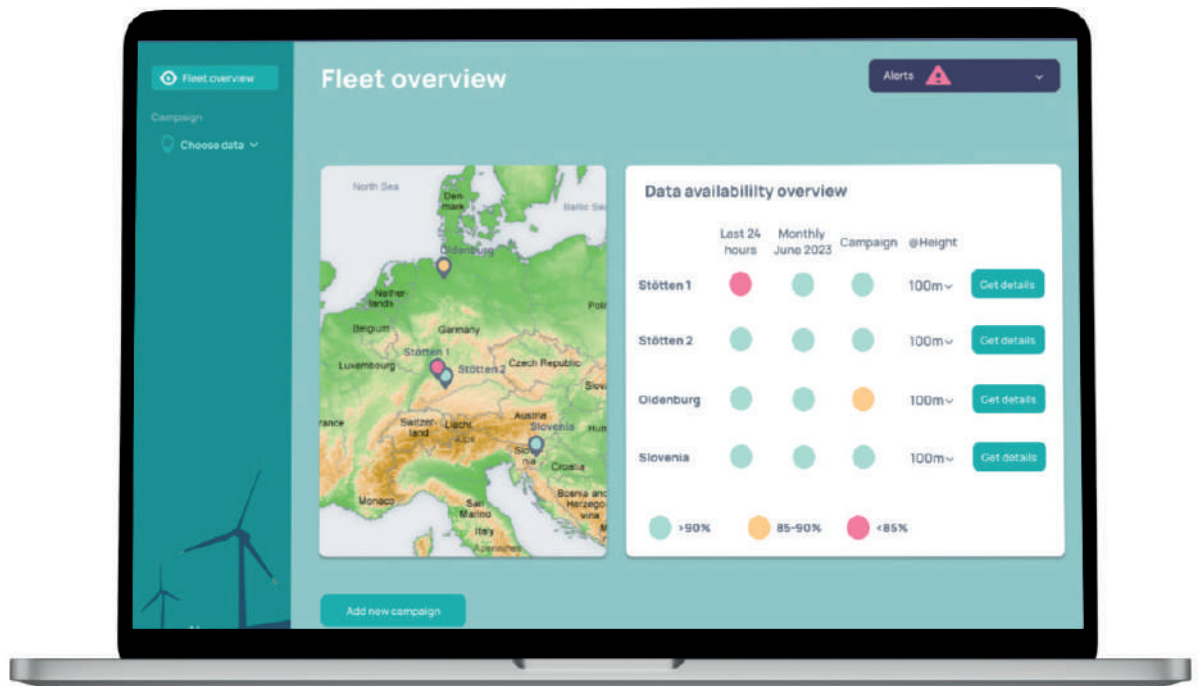
As a young start-up, we are only at the beginning. Our next goal is to launch our lidar monitoring app in early 2024 to which end we are looking for companies that would be willing to use our app in this early phase. We are offering a 90-day trial subscription as an incentive. The next step will be the development of the next app. We would welcome any suggestions for workflows that should be digitalised. We would love to discuss any relevant suggestions you may have.

### Conclusion

**It will be essential to digitalise work flows in the construction and operation of wind farms in order to expand wind energy production and increase the number of wind projects despite the shortage of skilled workers. This is precisely what enviConnect’s innovative app platform does. Incoming data is processed automatically, which reduces the number of staff to be deployed and expedites decision making.**



The team (from left to right): Dr. sc. Andrew Clifton, John Asher Rayan M.Sc., Dr-Ing. Ines Würth



The first app digitalises wind measurements with wind lidars.



# IdentiFlight – Bird protection at wind turbines

IdentiFlight – currently the only officially recognized anti-collision system in Germany – enables the rapid and legally compliant expansion of wind energy on land by providing an effective and efficient solution to species protection conflicts.



IdentiFlight deployment above the forest canopy on a 40m steel tower.

### Validated and recognised

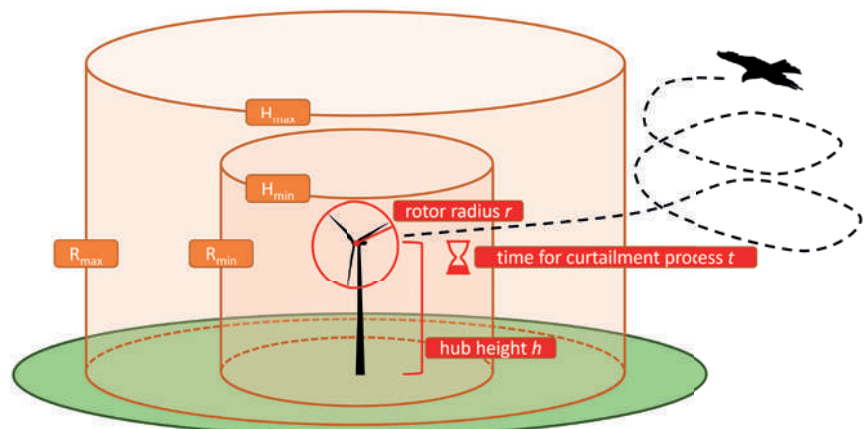
This system, which originated in the USA, has been refined and validated to meet the requirements of German species protection legislation. IdentiFlight's performance has been tested at various locations by independent assessors under the supervision of TÜV Nord. The validation process has already been completed for the red kite and the white-tailed eagle. In accordance with the Federal Nature Conservation Act (BNatSchG), IdentiFlight is currently undergoing further development to protect 11 of the 13 diurnal breeding bird species that are at risk of collision. On the basis of certified performance of IdentiFlight, the system was recognised as an effective mitigation measure through its inclusion in the BNatSchG, which makes IdentiFlight the only currently recognised bird detection system in Germany.

### Efficient and operational

Considering the investment costs, which have to be assessed in accordance with the BNatSchG, the practical use of IdentiFlight is currently considered to be economical from 3 to 4 wind turbines. Provided that the operator voluntarily agrees, legally secure approval can also be obtained for projects comprising a lower number of wind turbines. Long-term tests at different locations with above-average flight activity resulted in average shutdowns of less than 1.5 % of the operation time per year. As such, the annual yield losses were significantly below the legally prescribed acceptability threshold of 3 %, as the shutdowns mainly took place during the low-wind summer months. According to the participating wind turbine manufacturers, the total number of shutdowns is within a range in which no negative effects on the service life of the wind turbine are to be expected.

### On demand and effective

IdentiFlight's technology combines high performance optical systems with the latest in machine vision and AI software. It detects and analyses bird flights in the vicinity of a wind turbine in real time and, if necessary, sends a signal to the relevant wind turbine initiating turbine shutdown. The turbines are only curtailed in acute risk situations, i.e., when an individual of an affected bird species flies into a predefined area around the respective wind turbine. This effectively reduces the risk of collision for collision-prone birds and limits the yield loss resulting from the shutdowns to the absolute minimum.



Schematic overview of the outer and inner curtailment cylinder around the respective wind turbine monitored by IdentiFlight.



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Founding year 2020

Focus Automated bird detection system, on-demand shutdown, legally compliant approval, project support, service, and maintenance

- We offer
- customer-oriented conceptual design
  - One-stop solution for targeted bird collision reduction
  - Available for the red kite and white-tailed eagle, and shortly for the lesser spotted eagle and other collision-prone species as specified in the Federal Nature Conservation Act (BNatSchG).

- We are looking for
- Collaboration partners
  - Customers and projects interested in using IdentiFlight to address species protection issues on project level
  - Motivated staff

**Innovative and flexible**

e3 IDF GmbH offers bespoke solutions for a wide range of projects and applications. Our interdisciplinary team can provide consultation and site analyses during the project development phase as well as the permitting process. We offer reliable maintenance and service solutions to operators with short response times and ensure ongoing system performance verification, both remotely and through on-site checks, which reduces downtime to 5 % or less. Access to live data as well as the regular provision of automatically generated reports create full transparency.

**Conclusion**

IdentiFlight, Germany's first and currently only officially recognised bird detection system, facilitates the rapid and environmentally compatible expansion of onshore wind energy production. By selectively protecting specific collision-prone bird species and reducing annual yield loss to the absolute minimum, IdentiFlight provides a suitable and proportionate solution to species efficient conflicts.



Stand-alone installation of IdentiFlight.



The IdentiFlight stereo camera system detects as well as identifies bird species. It allows for a targeted mitigation effort by curtailing the relevant wind turbine.

**“It has been verified that IdentiFlight is able to reliably detect white-tailed eagles at a distance of about 1,200 m and kites at a distance of about 750 m, and to distinguish these collision-prone bird species from other birds. This makes it possible to initiate a timely shutdown of individual wind turbines, exclusively in times of risk and therefore reduce downtime to an absolute minimum.”**

*Maria Rohde, Head of Department, e3 IDF GmbH*



A high resolution image of a lesser spotted eagle detected and identified by IdentiFlight.



Learn more about IdentiFlight in this video (in German)

# Light:Guard – Aircraft Detection Lighting System (ADLS)

All wind turbines must be equipped with ADLS technology by the end of this year. The light:guard system is a proven, safe, and high-quality solution, benefitting wind farm operators and dark skies.



**W**ind turbines flash from dusk to dawn, regardless of whether there is a flying object nearby or not. This constant flashing has proven to be an annoyance for local residents, creating an obstacle to the acceptance of wind energy.

Aircraft Detection Lighting System (ADLS) technology makes it possible to minimise night-time flashing by monitoring the airspace around a wind farm and only activating the lights when an aircraft is in the vicinity.

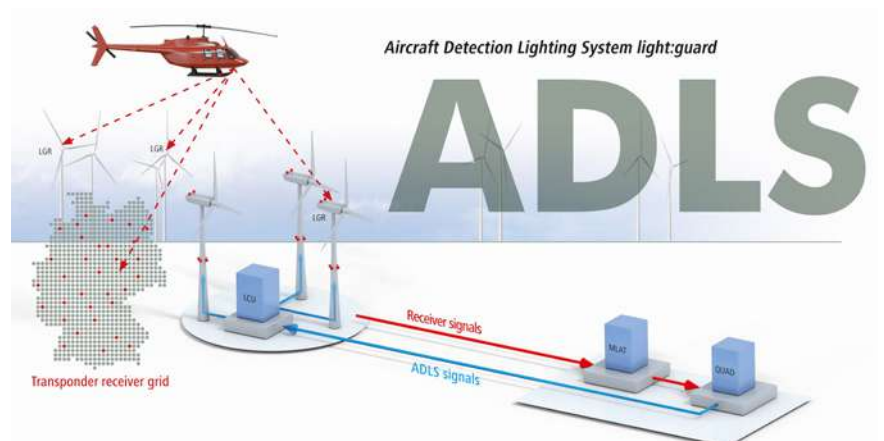
As of 1 January 2024, the use of ADLS will be mandatory (for turbines over 100m in height that were commissioned as of 2005), and wind farm operators will face a penalty for non-compliance. As an operator, you will be able to equip your facilities with our system in compliance with the law, and together we will restore darkness to the night.

## The light:guard system

One of the leading ADLS systems is the light:guard system, which is a **transponder-based** technology that achieves particularly accurate results thanks to a method known as **multilateration**, which results in a better signal quality and increased blackout periods for each wind turbine, especially in areas with high air traffic or large wind farms.

**Transponders:** All aircraft are legally obliged to transmit transponder signals in order to be identifiable and these are received by the light:guard receivers.

**Multilateration:** Our system continuously picks up data from all receivers simultaneously, which enables it to achieve a higher network coverage than, for example, a single receiver in the wind farm.



Functionality of the light:guard system for demand-controlled night identification





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Founding year	2019
Focus	Demand-controlled night marking for wind turbines
We offer	<ul style="list-style-type: none"> <li>• Provision of ADLS signals</li> <li>• Operational system maintenance</li> <li>• Approval application support</li> </ul>
We are looking for	Pilot projects & partnerships abroad (France, Italy, Austria), service providers

**About Light:Guard**

Founded in 2019 as a sister company of Quantec Sensors, Light:Guard develops, produces, and operates our proprietary light:guard system for demand-controlled night identification. We have around 50 employees at our locations in Hanover, Hamburg, and Dresden.

Having experience in the field of ADLS since 2008, we have been working with renowned wind turbine manufacturers such as GE, Nordex, and Vestas.

Currently we have over 3000 systems under contract and more than 300 installed receivers.

**Current milestones**

- ADLS infrastructure preparation on **existing Nordex turbines** completed.
- The light:guard system is now available for **new Vestas turbines** and can be procured directly from Vestas.
- We are introducing ADLS in the **Netherlands**: our experienced local partner Topwind BV is distributing the light:guard system in our neighbouring country.

**“We work onshore and offshore. Like our system.”**

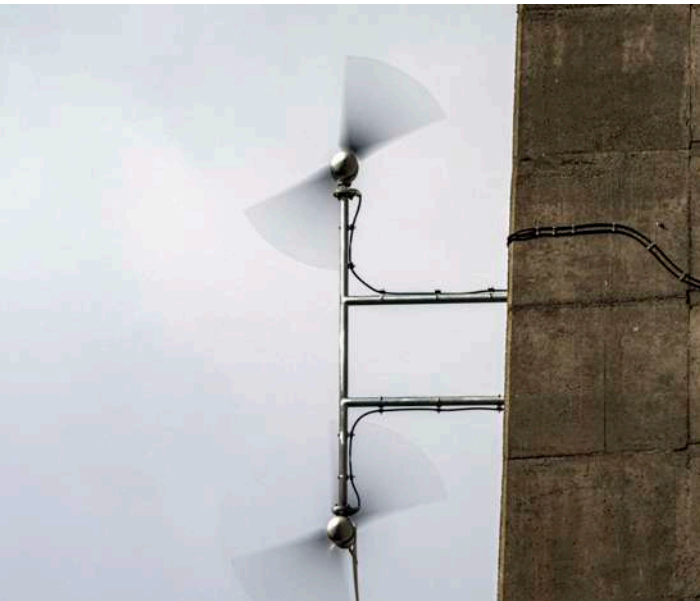


**Conclusion**

We'll turn the lights off at your wind farm in complete compliance with the law and will also get you the necessary permits. Together we can make the night sky dark again in line with the natural order of things and to increase the acceptance of wind power.

# MOWEA – Modular Wind Energy Systems

MOWEA is the first company to combine micro wind turbines to create a flexible modular wind system that can be adapted to the energy needs and available space for industrial applications and can be integrated into existing infrastructures.



MOWEA wind turbines on the Europa bridge



Close-up view of wind turbines on the construction crane of SÚBA AG in Stockerau

**M**OWEA combines standardised micro wind turbines to create a single wind energy system. As is the case with photovoltaics, the modular principle enables a flexible adaptation to specific energy needs and local conditions.

**Benefits of the modular concept:**

- No additional mast and surface sealing necessary
- Increased availability: each wind turbine operates autonomously and uses its own control algorithm
- Intelligent control of the wind turbines (IoT, remote control, connectivity)
- Flexible application options
- Lower costs through standardised component scaling
- Simple logistics and transport

MOWEA's modular wind turbines can be configured to meet the client's specific energy requirements. MOWEA's technology can be integrated into existing infrastructures such as radio towers, bridges, or construction cranes.

**References and pilot projects:**

**Telecommunications:**

Vantage Towers AG, a wholly owned subsidiary of the Vodafone Group and one of Europe's leading radio mast operators, will be installing a total of 752 micro wind turbines initially on 52 radio masts in Germany.



Tower





**MOWEA GmbH**

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Founding year	2016
Employees	19
Focus	Modular wind turbines for industrial infrastructures
We offer	scalable modular wind energy systems for industrial applications
We are looking for	(pilot) customers, investors

**Bridges:**

Both ASFINAG and MOWEA are harvesting wind power directly at the Europa Bridge, which is 140 metres high. MOWEA’s micro wind turbines power the Patsch toll station on Austria’s highest bridge and mark the first commercial wind power project in Tyrol, which is actually a pilot project aimed at assessing the feasibility of bridge mounted wind turbines. ASFINAG operates more than 5,500 bridges in Austria.

**Construction cranes:**

SÜBA AG is Europe’s first property developer to use MOWEA’s modular wind power to provide its construction sites with an autonomous supply of green electricity. The company is currently evaluating whether MOWEA wind turbines could also be used on a wide scale at other SÜBA construction sites in Austria and Germany.



Wind turbines on the construction crane of SÜBA AG in Stockerau



View of the Europa bridge with installed MOWEA turbines

**“By seamlessly integrating our turbines into existing structures and energy management systems, we are enabling various industries to harvest wind energy directly from their existing infrastructures. Our objective is to tap into as yet unexploited potential and help companies to reduce their energy costs and CO<sub>2</sub> emissions.”**

*Dr. Till Naumann, MOWEA CEO*

**MOWEA Core Unit**  
 PRODUCT SPECIFICATIONS

NUMBER OF WIND TURBINES	1
NOMINAL POWER	375 Watt
PEAK PERFORMANCE	500 Watt
ROTOR DIAMETER	1,7 m
START WIND SPEED	3,5 m/s
ENERGY YIELD at 5 m/s	~ 750 kWh/a
WIND YAW	360 Degrees
WEIGHT	~ 15 kg

Wind turbine specifications

**Conclusion**

By taking this innovative approach, MOWEA is unlocking the potential to integrate wind energy into previously inaccessible applications whilst saving space. The MOWEA Cloud enables remote control, operational monitoring, and predictive maintenance.