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Dear Readers,

In recent years, the wind energy sector has exhibited a remarkable upward trend globally, with Türkiye demonstrating a powerful performance. In 2014, Türkiye's installed wind power capacity was around 3 GW, but by the end of 2024, it is projected to reach 13 GW. Additionally, the sector has undergone a significant transformation, establishing Türkiye one of the world's key wind energy hubs. Today, the country boasts 278 operational wind farms, 4,360 installed turbines, over 20,000 direct jobs, and a wind-generated electricity share exceeding 10%. The sector contributes \$2.2 billion to the national economy with its growing wind energy equipment production. Although Türkiye added less wind power capacity in 2023 and 2024 than in previous years, it is set to begin 2025 with a 1,200 MW capacity auction.

In the Renewable Energy 2035 Roadmap, Türkiye aims to achieve an installed capacity of 120 GW in wind and solar energy by 2035. The country plans to hold auctions for 2 GW of wind and solar energy annually. This roadmap outlines an estimated investment of approximately \$80 billion.

Furthermore, Türkiye has introduced a "super permit" mechanism to accelerate energy investments and simplify bureaucratic processes, thereby facilitating investments for investors. The country aims to streamline the approval, licensing, and permitting processes for energy projects through this initiative. Consequently, the approval period for renewable energy investments, which currently takes up to 48 months, is expected to be reduced to two years or less.

We look forward to meeting you at the KEY ENERGY Expo in Italy on March 5-7, 2025, and the WindEurope Annual Event in Copenhagen, Denmark on April 8-10, 2025.

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# MATURE CAPITAL

Mergers & Acquisitions in Turkish Renewables



**Türkiye'nin Sadece Rüzgar Enerjisi Alanına Odaklanan İlk ve Tek Birleşme-Satınalma Danışmanlık Firması**  
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## Doğuhan Enerji, the Solution Partner of 2500 MW, Strengthens Europe with Helios Energy



Doğuhan Enerji, which provides turnkey services in road, platform, and foundation construction, electrical and cabling works, substation installation, control building construction, and overhead line construction for wind energy projects, also strengthens the European renewable energy sector with Helios Energy, its Romania-based subsidiary established in early 2022.

Operating a consistently with precision and dedication across all project scales, ranging from 1 MW to over 100 MW, Doğuhan Enerji has grown by successfully delivering some of the market's largest and most significant projects. With 28 years of industry presence and participation in over 200 projects, the company has completed the construction of more than 1,500 turbines, contributing to a total capacity exceeding 2,500 MW. Beyond its core expertise in wind energy projects, Doğuhan Enerji has been providing solutions for solar power plant projects globally for the past three years. Through its European subsidiary, Helios Energy, the company has undertaken the construction and installation of the 155 MW Ratești Project, the largest solar power plant in Eastern Europe, completing it within a record-breaking period of just eight months.

Helios Energy, which has achieved one of the fastest growth rates in the sector by reaching a 600 MW project portfolio within just three years, provides end-to-end turnkey solutions for solar energy projects, covering every stage from construction and foundation works to mechanical and electrical installations, as well as substation construction, SCADA integration, and commissioning processes. In addition to its operations in Romania, Helios Energy is also active in Germany, Hungary, and Italy. Globally, the company has already secured agreements for 210 MW of wind and solar power plant projects to be delivered by 2025.

### Striving for 20% Growth

Building a project portfolio that surpasses 2,500 MW, Doğuhan Enerji continues to leave its mark wherever the wind blows, actively participating in project developments across almost every region of Türkiye. To further expand its operational capacity, the company has been investing in machinery and equipment and plans to continue these investments throughout 2025. With the initiatives launched in the last quarter of 2024, Doğuhan Enerji aims to grow its operations in Türkiye and international markets by 20% in 2025.



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## Kuzey Brokers assurance for all phases of wind projects from installation to operation

Kuzey Brokers, founded in 2006, is the largest privately owned and independent insurance & reinsurance broking house headquartered in Istanbul. We are mainly working directly with over 30 insurance & reinsurance companies and underwriters/syndicates at various international markets whilst also having direct contacts with all Turkish insurance / reinsurance companies.

Our core team comprises of various insurance experts with varied qualification sets having backgrounds in energy engineering, marine engineering, mechanical engineering, surveying, ship owning, chartering, marine architecture, navigation, aviation, international trade and law practice.

We have been insuring more than USD 10 billion/year (marine, engineering & aviation) asset value, yet it's counting, with 98 % of clients' retention thanks to our professional approach with claims handling for our clients which makes us unique.

We produce and place majority of premium at international markets mainly in London. Our client portfolio is 80 % Turkish and 20 % International.

### Energy

Tailored engineering & energy insurance solutions across all project phases, from erection to operational period, providing cover against Physical Damages, Machinery and Electrical Breakdown, Operational All Risks, CMI, Third Party / Contractual / Product / Pollution Liability, Terrorism & Political Violence, Financial Risks (Business Interruption, Advanced Loss of Profit (ALOP), Delay in Start-Up, CAR/EAR.

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**Renewable Energy:** Wind Farms, Hydroelectric Power Plants, Solar Power Plants, Biomass, Geothermal Power Plants

**Thermal Energy:** Natural Gas Combined Cycle Power Plants, Coal Fired Power Plants, Co-generation Power Plants



### Electrical Transmission and Distribution Systems

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### Parametric

Parametric Wind Protection is a contract to financially protect physical wind power generation against natural fluctuations. After having adjusted for non-generation due to outages and grid congestions, the cover provides a financial floor on an agreed level of power produced by a wind generator.

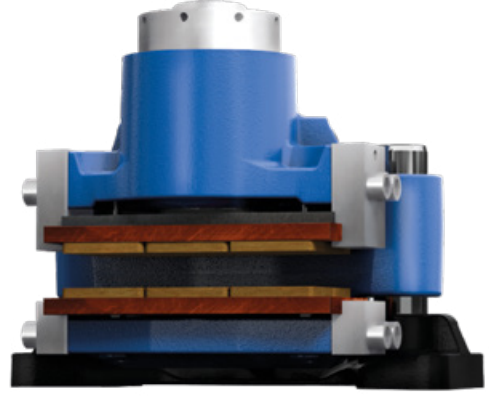
Parametric insurance is a type of insurance that does not indemnify the pure loss, but ex ante agrees to make a payment upon the occurrence of a triggering event. The triggering event is often a catastrophic natural event which may ordinarily precipitate a loss or a series of losses. But parametric insurance principles are also applied to Agricultural crop insurance and other normal risks not of the nature of disaster, if the outcome of the risk is correlated to a parameter or an index of parameters.

### Parametric Energy Insurance

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AVRASYA RÜZGAR olarak, 22 yıllık sektörel tecrübemizle Türkiye'nin kanat bakım ve onarım hizmetlerinde lideriyiz. Teknisyen eğitimlerimize özel önem vererek, yapısal ve kozmetik kanat tamirleri, kalite kontrol ve güvence işlemleri ile türbinlerinizin performansını ve dayanıklılığını artırıyoruz.



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## Berdan Civata: The Global Partner for Wind Energy Projects



Berdan Civata, a provider of critical fasteners for over 3,000 wind energy projects worldwide, produces high-strength anchor cages, tower assembly bolts, and blade studs, covering essential components, from the foundation to the blades. We remain an approved supplier in global markets for seven of the world's top 10 wind turbine manufacturers.

Founded in 1980 by Mechanical Engineers Hasan and Yunus Şemsi in a 150 m<sup>2</sup> workshop in Tarsus, Mersin, Berdan has experienced significant growth over the years. In 2000, we relocated to our first factory, spanning 5,000 m<sup>2</sup> in the Mersin-Tarsus Organized Industrial Zone, with a team of 25, including two engineers. Today, we operate in facilities covering 48,000 m<sup>2</sup>, with 28,000 m<sup>2</sup> dedicated to indoor production. Our team now includes over 60 engineers and approximately 400 employees, and we continue to be a trusted partner for high-strength and critical fasteners.

Our capabilities include machining, rolling, threading, heat treatment, and various surface treatment processes such as patented hot-dip galvanizing, electro-galvanizing, zinc flake, and Teflon coatings. These treatments are conducted in our state-of-the-art surface treatment facilities. Products are rigorously tested in our industry-leading, accredited test laboratory before being delivered to our clients.

Our products have been pivotal to some of the world's most significant infrastructure

projects. We provided the 10-meter-long, 700 kg anchors that support the towers of Europe's second-longest suspension bridge, Osmangazi, and the world's longest suspension bridge, the 1915 Çanakkale Bridge. For the Anamur-Cyprus Peace Water Project, we provided B7/2H grade bolts with a 100-year corrosion resistance for the 80 km pipeline running 250 meters underwater. Additionally, we supplied over 800 tons of fasteners for the Kuwait International Airport project and all fasteners for the 93,000-seat Lusail Stadium, the venue for 10 matches, including the final, of the 2022 FIFA World Cup in Qatar.

As the only Turkish company, our journey into the wind energy sector began in 2008 when we participated in the Wind Energy Fair in Husum, Germany. This marked the start of our collaboration with global wind energy giants. Today, we have supplied fasteners for over 3,000 wind turbine projects worldwide. Our clients include renowned names, such as GE from the USA, Nordex and Enercon from Germany, Vestas from Denmark, Siemens from Spain, and Goldwind from China. We have also provided fasteners for the Konya-Karapınar project, Europe's largest solar power plant, with a capacity of approximately 1,550 MW.

In addition to supporting green energy, we harness natural resources to meet our own energy needs, sourcing 53% of our requirements from our 2.5 MW rooftop solar power plants. Our goal is to increase this to 90% in the future.

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## ENERCON: Shaping Türkiye's Energy Transition



Since its establishment in 1984, ENERCON has pioneered in wind energy technology by developing onshore wind turbines and playing a key role in the industry. With over 33,000 installed wind turbines worldwide and a cumulative installed capacity exceeding 64 GW, the company stands as one of the architects of a sustainable future. It has established itself as one of the leading brands in the global wind energy sector by means of its innovative wind turbine technology, high-quality standards, and decades of experience. In Türkiye, it is recognized as one of the pioneers of the country's energy transition. As Türkiye's first wind turbine brand, ENERCON Türkiye has achieved many industry milestones throughout its 27-year history. Today, with more than 1,250 wind turbines installed, the company alone accounts for nearly 24% of Türkiye's total 13 GW installed wind capacity.

The company entered the Turkish market in 1997 and has since exceeded a cumulative installed capacity of 3 GW, starting from just 1.5 MW, marking a significant milestone in its journey. By the end of 2025, it aims to achieve a total installed capacity of 4 GW. As the turbine supplier for the 1,000 MW mega project encompassing the entire YEKA RES-2 tenders, the company continues to play a key role in Türkiye's energy transition through its contracts in YEKA-2 and YEKA-3.

The company is solidifying its role in Türkiye's wind energy sector with ongoing and contracted projects. Rather than seeing Türkiye merely as a sales market, it actively engages in production and engineering activities. Through its investments in education and R&D, ENERCON contributes to developing innovative wind energy technologies in the country. As part of its collaboration with Enerjisa Üretim, ENERCON is set to test the E-175 EP5 model—one of the world's largest wind turbines with a rotor diameter of 175 meters—for the first time in Türkiye at the Bandırma Energy Hub. The E-175 EP5 E2 7 MW stands out as one of ENERCON's latest and most advanced turbine designs in engineering. ENERCON's signature direct drive technology distinguishes the company from other brands and is also a key feature in this model. Additionally, incorporating a permanent magnet system maximizes energy efficiency, demonstrating its commitment to high performance. With its robust performance and optimized aerodynamic design, the E-175 EP5 E2 ensures maximum energy generation even at low and medium wind speeds, reflecting ENERCON's sustainability and technology-driven vision.

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## Katwind Energy: The Sustainable Solution Partner for the Industry



Katwind Energy, renowned for its blade repair services for wind turbines, also operates across all aspects of wind energy projects offering wind farm site management, aerial work platform services, maintenance & repair, cost management, occupational health and safety management, rotor blade inspection and maintenance, and logistics management. With a team rich in field experience, the company delivers engineering solutions that meet European standards. Katwind Energy continuously develops, innovates and sustains its wind energy solutions for the wind energy sector through investments in technological equipment and robotic software.

As a trusted partner for many reference projects in Türkiye, Katwind also plays a crucial role in the installation and maintenance processes of wind power plants, locally and internationally. The company continues its operations to offer project management and service solutions, primarily in Ukraine, as well as in Pakistan, Germany, and Thailand. This year, Katwind aims to expand its global presence and represent Türkiye in a broader range of countries. Despite the ongoing Russia-Ukraine conflict, the company remains committed to its projects in Ukraine.

Katwind boosts efficiency and quality in blade and tower maintenance and repair services, saving time with its blade access platform. The company operates as a registered subcontractor for all active turbine manufacturers and blade producers in Türkiye, leveraging its highly skilled teams.

In line with its goals, the Katwind Energy family continues strengthening its team and expanding its workforce for its 2025 objectives. As part of this effort, the company has reintegrated Gizem Damla Tör into the Operations and Quality Manager team, recognizing her valuable experience and previous contributions at Katwind.

Actively participating in TÜREB initiatives, the company remains steadfast in its commitment to contributing to the country's wind energy industry in every possible way.

Katwind continues its operations in the single-turbine and unlicensed energy market, partnering with Enerjisa Üretim A.Ş. as a solution provider for site management and occupational health and safety in BOTAŞ's second wind power plant project. Katwind will also be responsible for the final completion of works and aims to extend its partnership with Enerjisa Üretim A.Ş. in future projects.

# KATWIND

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## LEITWIND – Contract Signed for the First LTW90 2,000 kW in Turkey



Photo: LTW90 Lüleburgaz (Türkei) - Klaus Rockenbauer

A strategic step that strengthens LEITWIND's presence in the Eastern Thrace region.

LEITWIND is pleased to announce the renewed collaboration with its Turkish customer, who had already placed trust in the brand's products and services in 2023 by choosing LEITWIND for the installation of a 1,500 kW wind turbine. In December 2024, the agreement was formalized for the supply of an LTW90 2,000 kW turbine, which will be installed in the spring of 2026 in Kırklareli province, Eastern Thrace. Equipped with a 97.5-meter-high tower, this turbine represents a significant milestone for LEITWIND in the Turkish wind energy market.

LEITWIND's success in Turkey can be attributed to several factors: the adoption of cutting-edge technology, the offer of a comprehensive all-inclusive package that includes not only the standard supply of wind turbines but also continuous support throughout all project phases, and a strong local presence. Following the establishment of LEITNER TURKEY in May 2012, specializing in the ropeway sector, the LEITWIND TURKEY branch was inaugurated in Bursa, actively managing the 10 LEITWIND wind farms currently operating in the country.

Not only in Turkey but also in Italy, the LTW90 product continues to receive significant recognition. In the fall of 2024, LEITWIND successfully completed the first LTW90 wind farm in the province of Trapani. This project, consisting of three LTW90 with a rated power of 1,000 kW, presented a significant logistical challenge due to the area's unique morphological characteristics. However, achieving this result highlights the company's experience and expertise in handling installations in complex environments.

The wind energy sector is undergoing a transformation, with major manufacturers shifting towards turbines with larger rotors and higher power outputs, thereby reducing the availability of Megawatt-class turbines. In this challenging context, LEITWIND stands out for its specialization in small to medium-sized projects and repowering operations, reinforcing its role as a key partner for communities, SMEs, and local investors.

Despite regulatory and permitting uncertainties, the small to medium-sized wind energy sector represents a strategic opportunity to enhance the value of already installed energy potential. LEITWIND is ready to further strengthen its leadership position, making a significant contribution to the global energy transition.

**LTW90** 500 kW - 2.000 kW



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## 8th İzmir Wind Symposium and Exhibition

Izmir has become the Capital of Wind Energy with its Wind Power Plants, Blade and Tower Production Facilities, Engineering, Consultancy, R&D, Installation, Service, Maintenance Companies, Sub-industries, Project Developers, Measurement and Testing Firms, Investors, and Associations and Professional Chambers operating in the field of wind energy.

The 8th IZMIR WIND SYMPOSIUM and EXHIBITION, to be organized by TMMOB Chamber of Electrical Engineers, Chamber of Civil Engineers and Chamber of Mechanical Engineers Izmir Branches at MMO Tepekule Congress and Exhibition Center on 28-29 November 2025, is one of the events with the most intense technical content of the sector. We are excited to come together with the components of the sector in Izmir, the "Capital of Wind Energy", and organize this important event.

The 8th IZMIR WIND SYMPOSIUM AND EXHIBITION serves as a platform where sector stakeholders come together to discuss the latest developments in the field of wind energy and share future technologies. In addition to technical sessions, it aims to contribute to the collaboration between academia, industry, and society by addressing the latest academic advancements.

### Symposium Schedule

#### Monday, June 30, 2025

Submission of abstracts to the symposium secretariat

#### Friday, July 25, 2025

Evaluation of abstracts and notification of results to authors

#### Friday, August 29, 2025

Submission of full-text papers to the symposium secretariat

#### Monday, September 29, 2025

Evaluation of full-text papers and notification of results to authors

Abstracts that receive preliminary approval from the Scientific Committee will be evaluated once the full text is submitted and included in the program accordingly.



The required abstract submission form, paper writing guidelines, and sample paper template are available on our website. Once your abstract is accepted, you can send your full-text papers to [izmir@ruzgarsempozyumu.org](mailto:izmir@ruzgarsempozyumu.org) by the specified deadlines.

### Exhibition

Companies producing products and services in the wind energy sector will have the opportunity to communicate with sector stakeholders and symposium participants in the exhibition area. To reserve a spot in the exhibition or obtain more information, please contact us at [izmir@ruzgarsempozyumu.org](mailto:izmir@ruzgarsempozyumu.org) or visit [www.ruzgarsempozyumu.org](http://www.ruzgarsempozyumu.org).

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## Mature Capital: Your M&A Advisor in Wind in TÜRKİYE!

Mature Capital founded in September 2022 based in İstanbul. The company's main focus is Merger & Acquisition Advisory services in Wind Energy in Türkiye. Mature Capital is founded by Habib Babacan, who has 20 years of work experience in wind business in Türkiye, and held various C level, executive and managerial positions in Nordex Group, and Turcas Petrol (investor), and extensive network at every level in Turkish wind business.

The track record of References of Mature Capital for the first two years:

### - Completion of The Sale of 25 MW Operation Wind Farm in Türkiye.

Carrying out all communication between buyer and seller, and management of negotiations between parties, technical due diligence of wind farm, and support on post-acquisition activities.

### - Commercial and Technical Assistance in Wind Farm Acquisitions in Europe and US.

Giving support to Business Development teams of Turkish and international customers; to review turbine supply and service agreements, identify and interpret risks due to these agreements, to review and examine energy production reports and verify the energy yield from 3rd resources, to summarize technical aspects, difficulties, and potential problems of wind farms.

### - Financial Model Building for a Green Field Manufacturing Plant in the field of Renewable Energy Component Production.

Preparation of financial model for a green field manufacturing plant with a 60 million USD investment budget in Türkiye. Together with investors technical team, we prepared capacity, machinery, human resource plans of investment. Investment teaser of this investment is also prepared to be shared with banks.

### - Various other Consultancy Services in Wind; 10 different investors, 13 different projects completed.



In wind transactions, Mature Capital works with its partners for different due diligence works, wind site, micro siting, environmental, permits and legal assessments of the projects, and build the team and working partners according to the client requests. These working partners are both local experts in Türkiye, aswell as the representation and local offices of international consulting companies.

Mature Capital has a deep expertise in wind market structure, knows how to construct operational, greenfield or brown field portfolio, and has direct reach to shareholders of investors, and portfolio owners. Turkish wind market is a fragmented market of 12 GW operational wind farms with an around 200 different investors, and 80 GW of new pipeline of early phase greenfield wind projects with storage. With this market structure, Turkish wind market has an attraction for international investors, and Mature Capital is ready to give services for international investors for their growth in Türkiye.

**If you are looking for right advisors for Turkish Wind Market, Mature Capital is yours. Let's get in touch.**

<https://www.maturecapital.com.tr>

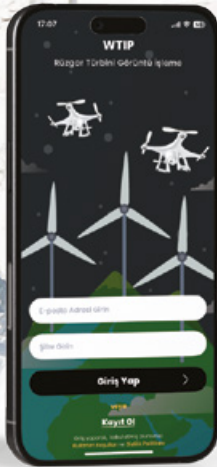
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At Nova RES, we utilize our extensive experience and strong on-site management processes, and project management expertise, to achieve excellence in every endeavor. We focus on ensuring efficiency while minimizing operational costs, guaranteeing sustainable success for each project.

Despite the challenging weather conditions and complex terrain in Northern Europe, we have once again showcased our expertise in the industry by efficiently completing installation and maintenance services for over 100 Nordex turbines in Finland. We take pride in our active role

in all operational processes, including installing networks with capacities exceeding 400 MW and providing ongoing maintenance.

We're thrilled to share the successful completion of our exciting installation in Oulainen, located in the beautiful Northern Ostrobothnia region of Finland! This project featured seven N163/5.X wind turbines; it is a proud addition to our Northern European portfolio for 2024! Looking ahead to 2025, we're eagerly expanding our presence in the Nordic region by securing service contracts for over 200 wind turbines and celebrating our new installation project, the Fasikan Wind Farm, in Sweden. The future is bright, and we can't wait to see what's next!

At Nova RES, we're excited to stay up-to-date with the latest innovations in the wind energy sector! By embracing global opportunities, we're expanding our reach and impact. Our team's extensive experience in wind turbine installation and maintenance drives our success in this dynamic industry, and we're proud to play a part in building a sustainable energy future!

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## ABP TDS Becomes a Solution Partner for Over 1,000 Turbines as a Key Internal Component Manufacturer

ABP TDS meets the robust requirements of the wind energy sector by producing high-quality internal components for turbines. The company has become a solution partner for over 1,000 turbines by the provision of solutions to industry giants.



ABP TDS took its first step into the industry in 1999 in İzmir, Türkiye. In 2012, the company significantly expanded its operations with a new facility, equipment, and a growing workforce in the Akhisar Organized Industrial Zone. By 2016, ABP TDS entered the energy sector and has since successfully manufactured welded and non-welded internal and external components for wind turbines, including steel, stainless steel, and aluminum products. These products are carried out in state-of-the-art machine parks under the supervision of expert teams, serving globally operating, industry-leading energy companies.

ABP TDS holds many certifications recognized across all European Union (EU) countries, demonstrating the company's compliance with international standards. In addition to ISO 9001, ISO 45001, ISO 14001, TS EN ISO 3834, and TS EN 1090 certifications, the company also holds the certification for the

qualification of manufacturers of steel and aluminum structures, which came into effect on January 1, 2011, verifying the competence of manufacturers producing these structures.

Among its references, ABP TDS counts Nordex, Enercon, Vestas, Siemens, Cswind, GRI, and Çimtaş. Recognized for its success across various sectors, the company has been manufacturing welded and non-welded steel, stainless steel, and aluminum internal and external tower components for over 1,000 wind turbines globally since 2016.

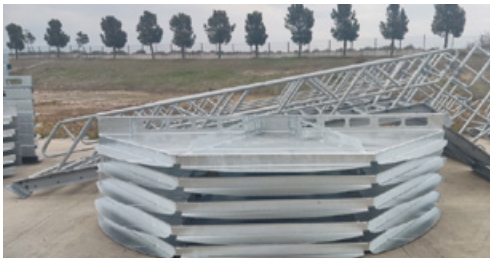
Guided by the motto "Reliability is not claimed, it is earned," ABP TDS aims to become one of the leading companies, achieving the highest market share in its target industries. By 2025, with a production capacity reaching up to 80 sections per week, the company will continue its rapid growth as a global solution partner in the energy sector.



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## GÜRIŞ Technology Drives the Future of Wind Power Plants with AI-powered Solutions

GÜRIŞ Holding is Türkiye's largest wind energy investor with an installed capacity of 767 MW in both domestic and international markets. The company has strengthened its position by establishing GÜRIŞ Technology, leveraging its decades of industry experience. GÜRIŞ Technology integrates the parent company's expertise, particularly in artificial intelligence (AI) and data analytics, into energy management and maintenance solutions, delivering AI-powered technologies to enhance the efficiency, safety, and sustainability of renewable energy projects. GÜRIŞ Technology is pivotal in the wind energy sector with its AI-driven solutions that enhance efficiency, reduce operational costs, and promote sustainable energy production. By contributing to many projects both in Türkiye and abroad, the company has achieved remarkable success in a short period and aims to expand its presence in the European and Middle Eastern markets.

Kaan Yamantürk, Chairman of the Board at GÜRIŞ Technology, shares insights on the company's operations, solutions, and future goals in an exclusive interview with Wind Energy Magazine.

**Can you provide a general overview of GÜRIŞ Technology, which you established to offer digital solutions to the renewable energy sector as one of Türkiye's largest wind energy investors?**

GÜRIŞ Technology, leveraging GÜRIŞ Holding's extensive knowledge and experience, aiming to provide innovative digital solutions in the field of renewable energy. We develop AI-powered solutions to enhance the efficiency, security and sustainability of renewable energy projects. Primarily focusing on wind energy, we support digital transformation in various renewable energy domains by offering technologies that optimize operations and maintenance processes. Our goal is to deliver solutions that boost efficiency, reduce operational costs and promote sustainable energy production.

**Could you elaborate on the solutions and services offered by GÜRIŞ Technology? In which areas of renewable energy can these solutions be applied? Do the solutions vary between internal and external applications?**

At GÜRIŞ Technology, we develop a range of AI and data analytics solutions that add significant value to the energy sector. Our solutions include image processing



**Kaan YAMANTÜRK**  
*Chairman*

systems for wind turbine damage detection, AI-powered models for fault prediction using vibration and acoustic analysis, predictive maintenance systems that optimize maintenance processes, and advanced data analytics solutions for energy production forecasting.

These solutions are especially vital to wind energy power plants. By streamlining turbine maintenance processes we minimize downtime and ensure continuous energy production. Our AI-driven systems enhance decision-making accuracy for operators, improving energy production processes. Furthermore, we have developed AI tools leveraging Large Language Models (LLM). While these solutions are utilized internally, they are also made available to other companies



in the energy sector, facilitating driving broader industry transformation.

### **How are AI and data analytics technologies integrated into wind energy projects?**

AI and data analytics are revolutionizing wind energy projects. Traditional maintenance and analysis methods heavily relied on manual inspections and fieldwork. However, we now employ cutting-edge AI and machine learning models to monitor turbine performance, predict potential failures in advance, and optimize maintenance processes.

For example, through our groundbreaking WTIP project, we utilize image processing technologies capable of scanning wind turbine blades using drones and high-resolution cameras to detect damages. Additionally, in preventive maintenance, we collect data through vibration sensors to anticipate anomalies in turbine motors or gearboxes using AI algorithms. This predictive approach ensures maintenance teams intervene only when necessary, reducing unnecessary downtime and costs.

Moreover, with our BladeScan project, we are developing a pioneering autonomous robotic solution to analyze the internal structure of wind turbine blades. BladeScan employs advanced sensors and image processing technologies to meticulously scan the inner surfaces of turbine blades, identifying cracks and structural damage. This innovative approach enables early detection of internal blade damage, significantly reducing maintenance costs.

### **What roles do these solutions play in the wind energy sector, and what benefits do they offer?**

GÜRİŞ Technology's AI-driven solutions undertake several critical roles in the wind energy sector. Primarily, we provide proactive maintenance solutions to extend turbine lifespan. By utilizing acoustic and vibration analyses, we can detect even the smallest anomalies in systems, preventing major failures. Also, our AI



based drone inspection program, WTIP, helps our clients to secure their blades and increase its efficiency. Regular blade inspection takes more time, increasing the downtime and production loss. As GÜRİŞ Technology, we started our robotics products to inspect the inside of blades. By our both products we secure and guarantee the blades well-being.

Furthermore, our energy production forecasting systems offer more reliable predictions to grid operators, helping balance energy supply and demand. By enhancing turbine operational efficiency, we minimize energy losses and maximize production. As a result, our solutions contribute to shortening the return on investment for wind energy projects and reducing operational costs.

### **What advantages do GÜRİŞ Technology's AI-powered services provide to users in the wind energy sector?**

The AI-powered solutions offered by GÜRİŞ Technology provide significant advantages to wind energy plant operators and investors. First, our predictive maintenance and intelligent analytics systems enable the early detection of potential turbine failures, allowing for proactive maintenance planning. This reduces maintenance costs while ensuring uninterrupted energy production.





Additionally, by automating operational processes, we minimize human error. AI-powered analytics reduce the need for manual reporting, accelerating decision-making processes. Our systems feature user-friendly interfaces and advanced data visualization tools, empowering operators to make faster and more informed decisions.

**How many domestic and international power plants have these solutions been implemented in? Can you provide an example of a reference project?**

Our solutions have been implemented in various wind energy power plants both domestically and internationally. While our systems are actively used in GÜRIŞ Holding's own plants, they have also attracted significant interest from other energy companies.

For example, our image-processing-based turbine blade inspection system is being utilized in several major wind farms in Europe, including projects in Kosovo and Ukraine, is receiving highly positive feedback.

In Türkiye, we have successfully deployed our predictive maintenance and energy production forecasting models in GÜRIŞ Holding's wind farms. These projects have allowed our technology to prove its effectiveness in real-world operational conditions.

**Are your products user-friendly? Do they require training?**

Our solutions are designed with user-friendly interfaces and ease of use in mind. Operators can efficiently conduct energy production forecasts, maintenance planning, and fault detection analysis using our systems.

However, for some advanced analytical tools, we provide short-term training to ensure optimal utilization. These training sessions help plant operators maximize system efficiency and make more informed decisions.

**Can you share GÜRIŞ Technology's future goals?**

At GÜRIŞ Technology, our goal is to contribute to the renewable energy sector not only in Türkiye but also on a global scale. We aim to expand into the European and Middle Eastern markets, establishing ourselves as a technology provider in the renewable energy sector, particularly in wind energy.

Furthermore, we will continue advancing our AI and data analytics technologies to offer smarter, more efficient, and more sustainable energy production solutions. As mentioned earlier, we are dedicated to improving the life cycle and production of power plants, which prompted us to start our robotics program as well. By addressing the sector's most significant challenges, we remain committed to developing innovative technologies that shape the future of energy infrastructure.



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## Türkiye's 1200 MW Wind Competitions (YEKA-4 RES 2024) Completed in January 2025



**Habib BABACAN**  
General Manager  
Mature Capital

YEKA is the abbreviation of capital letters of "Yenilenebilir Enerji Kaynak Alanları" which means Renewable Energy Resource Zones. RES is the abbreviation of capital letters of "Rüzgar Enerji Santrali" which means Wind Energy Power plant.

Ministry of Energy of Türkiye executes wind tenders for YEKA RES zones since 2017, and so far 2850 MW capacity was tendered in the first three YEKA RES competitions; respectively - 1000 MW in 2017, 1000 MW in 2019, and 850 MW in 2022. Tender eligibility requirements and competition rules were different in all these three tenders. However, the common point for these three tenders, in none of them projects were developed.

### Projects were pre-developed in YEKA-4 RES 2024

YEKA-4 RES 2024 Competition was announced on 28 October 2024 for a connection capacity of 1200 MW in five different projects. Different than before in this tender, the announced projects were pre-developed by Ministry and long-term wind measurements were carried out, site coordinates, and even turbine coordinates are defined, and development data was shared with tender participants.

Here are some highlights for this tender rules are given in below table.

| Table 1 : Highlights of YEKA 4 RES - 2024 Auction                               |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic                                                                           | Details                                                                                                                                                                                                                                                          | Explanation                                                                                                                                                                                                                                                                                                                                                                                          |
| Capacity Tendered                                                               | 1200 MW                                                                                                                                                                                                                                                          | - 5 different projects                                                                                                                                                                                                                                                                                                                                                                               |
| Pre- Licence Period (for Electricity Generation)                                | 24 months                                                                                                                                                                                                                                                        | - starts with issuance of Pre-Licence - usually 6 months after the signature of YEKA Agreement                                                                                                                                                                                                                                                                                                       |
| Licence Period (for Electricity Generation)                                     | 49 years                                                                                                                                                                                                                                                         | - 49 years after the prelicence period                                                                                                                                                                                                                                                                                                                                                               |
| Local Content Requirement (applied to main components, and some sub components) | minimum 55%                                                                                                                                                                                                                                                      | - no local - nacelle or other - factory obligation.<br>- supply of selected components should exceed 55% point.<br>- all locally supplied subcomponents should exceed certain localization ratios"                                                                                                                                                                                                   |
| Electricity Sales with Market Rates                                             | First 72 months after the signature of YEKA Agreement                                                                                                                                                                                                            | - This period start approximately on 31 March 2025 - lasts 72 months later.<br>- This 72 months includes remaining project development activities- including permits, design and turbine selection- as-wellas construction period of wind farm.<br>- for the winner, earlier to complete better to benefit from electricity market rates.                                                            |
| Competition Electricity Sales - Feed in Tariff & Contribution Fee               | - First bid shall be given between 5.5 to 3.5 USDcents/kwh.<br>- Reverse Auction continues until to reach 3,5 USDcents/kwh.<br>- After reaching 3.5 USDcents/kwh, Auction off for Contribution Fee in USD per MW. Highest Contribution Fee bidder is the winner. | - <b>Feed in tariff ( USDcent/kwh) shall continue for 20 years.</b> This 20 year period starts 72 months after the signature of YEKA Agreement.<br>- No annual escalation for the winning bid.<br><br>- Contribution Fee is in USD per MW, and paid just after the signature date of YEKA Agreement. [ Until 31 March 2025]. Winning bid should pay [ Contrubiton Fee X Project Installed Capacity ] |

### Tender Applications

Deadline for YEKA-4 RES 2024 was 21 January 2025, and investors were given around three months of time for preparations. Since Turkish wind market is eager for the developed wind projects, interest from the local investors were high, and 40 different investor groups were applied for the competition. The below table shows number of bidders for each project. Since the investment amount (CAPEX) increases with the capacity, more applicants were seen for smaller capacities. However, even 14 applicants for 410 MW Edirne RES Project were enough for a tough competition.

| # | Project Name     | Province   | Installed Capacity | No of Bidders |
|---|------------------|------------|--------------------|---------------|
| 1 | R24- EDIRNE RES  | EDIRNE     | 410 MW             | 14            |
| 2 | R24- BALKAYA RES | KIRKLARELI | 340 MW             | 16            |
| 3 | R24- SERGEN RES  | KIRKLARELI | 200 MW             | 21            |
| 4 | R24- YELLICE RES | SIVAS      | 160 MW             | 23            |
| 5 | R24- GÜRÜN RES   | SIVAS      | 90 MW              | 26            |

### Tender Results

In all these five projects tenders, first offers for feed in tariff which were provided within the closed envelopes contains minimum tariff of 3,5 USDcents/kwh. Therefore, reverse auction rounds for feed in tariffs were not carried, tenders directly started with auctioning off Contribution Fee per MW after the opening of closed offers.

Tender rounds for all five projects were very competitive in increasing contribution fees, even after reaching to lowest feed-in tariff of 3,5 USDcent/kwh for 20 years without annual escalation. Table 3 shows results of tender with the winning investors, and auction rounds.

| # | Project Name     | Province   | Installed Capacity | Investor / Winning Bidder          | Feed-in-Tariff (\$cent/kWh) | Contribution Fee (USD/MW) | Auction Rounds |
|---|------------------|------------|--------------------|------------------------------------|-----------------------------|---------------------------|----------------|
| 1 | R24- EDIRNE RES  | EDIRNE     | 410 MW             | ENERJISA ENERJI URETİM A.Ş.        | 3,50                        | \$60.000                  | 5th Round      |
| 2 | R24- BALKAYA RES | KIRKLARELI | 340 MW             | ENERJISA ENERJI URETİM A.Ş.        | 3,50                        | \$92.000                  | 5th Round      |
| 3 | R24- SERGEN RES  | KIRKLARELI | 200 MW             | RT ENERJI TURZ. SAN. VE TIC. A.Ş.. | 3,50                        | \$140.000                 | 8th Round      |
| 4 | R24- YELLICE RES | SIVAS      | 160 MW             | EFOR HOLDING A.Ş.                  | 3,50                        | \$140.000                 | 4th Round      |
| 5 | R24- GÜRÜN RES   | SIVAS      | 90 MW              | ADY AKDENİZ RÜZGAR EN. ÜR. A.Ş.    | 3,50                        | \$148.000                 | 11th Round     |

### Next Step for the short term period for YEKA-4 RES 2024

The winning bidder for each project will be invited by the Ministry for the signing of YEKA Agreements, and afterward total contribution fee shall be paid in full amount until 31 March 2025 to EPIIAS which is electricity market operator. Table 4 shows the total contribution fee amount for each project.





Table 4 : YEKA 4 RES - 2024 Contribution Fee to be paid until 31 March 2025

| # | Project Name     | Province   | Installed Capacity (MW)" | Investor / Winning Bidder           | Contribution Fee (USD/MW) | Total Contribution Fee (USD) |
|---|------------------|------------|--------------------------|-------------------------------------|---------------------------|------------------------------|
| 1 | R24- EDİRNE RES  | EDİRNE     | 410                      | ENERJISA ENERJİ ÜRETİM A.Ş.         | \$60.000                  | \$24.600.000                 |
| 2 | R24- BALKAYA RES | KIRKLARELİ | 340                      | ENERJISA ENERJİ ÜRETİM A.Ş.         | \$92.000                  | \$31.280.000                 |
| 3 | R24- SERGEN RES  | KIRKLARELİ | 200                      | RT ENERJİ TURZ. SAN. VE TIC. A.Ş.S. | \$140.000                 | \$28.000.000                 |
| 4 | R24- YELLICE RES | SIVAS      | 160                      | EFOR HOLDING A.Ş.S.                 | \$140.000                 | \$22.400.000                 |
| 5 | R24- GÜRÜN RES   | SIVAS      | 90                       | ADY AKDENİZ RÜZGAR EN. ÜR. A.Ş.     | \$148.000                 | \$13.320.000                 |

#### About Habib Babacan

Habib Babacan has been working professionally in the Turkish Wind Energy sector since 2008. He continues to provide consultancy services, with his own initiative, Mature Capital, to investors in the fields of Business Development, Project Development, Strategy Formulation and M&A of Projects in the wind business.

More information about Mature Capital, which focuses on Mergers and Acquisitions of Wind Projects (M&A), is available through the links below.

<https://www.maturecapital.com.tr>

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# Physical Climate Risks and Wind Power Investments: A Data-driven Approach

Global investment in renewable energy has undergone significant growth over the past decade. According to the International Renewable Energy Agency (IRENA), the world's total renewable energy capacity increased from 1,226 GW in 2010 to 2,799 GW in 2020, more than doubling in just ten years (1). This trend highlights the critical role of renewable energy in meeting sustainability and energy security goals, and in mitigating climate change. However, climate change itself, through extreme weather events and shifting environmental conditions, can pose new "physical risks" that wind power and other renewable energy facilities must anticipate and manage. Our company provides data-driven solutions—encompassing climatological, meteorological, and topographical information—to help investors, insurers, and banks address these emerging challenges.

## The Physical Risk Landscape

Wind, solar, and hydropower facilities operate under open-air conditions, making them particularly vulnerable to disruptions caused by climate change. Extreme heatwaves, flooding, icing, lightning, and wildfires are among the hazards affecting both the construction and operational phases of renewable energy projects. For example, in colder regions, such as Canada, ice accretion increases maintenance costs. It poses safety risks, whereas, in countries like Türkiye, wildfires and frequent lightning strikes can significantly threaten infrastructure and operational stability.

Our specialized climatological datasets provide valuable insight into current and future risk profiles for any given location. We integrate historical reanalysis data with validated climate projections using advanced numerical algorithms, which enables stakeholders to identify the severity of these risks under different scenarios. This holistic approach provides investors, insurers, and financiers a robust foundation for making informed decisions, from initial site selection to long-term asset management.

## The Role of Insurance and Banking Sectors

Insurance companies have a vested interest in accurately assessing physical risks at the earliest stages of a project. By leveraging our high-resolution climate projections, they can develop risk scores that capture the likelihood and potential impact of hazards, such as extreme temperatures, lightning, or wildfire. In turn, this allows insurers to structure more precise policies, establishing coverage and premiums that reflect the true level of exposure throughout a project's operational life cycle.

Banks, too, are increasingly aware of how climate change can threaten the viability of their investments. Traditionally, lenders have focused on collateral and revenue projections when evaluating project financing. Nowadays, institutions, such as the International Finance Corporation (IFC), the European Bank for Reconstruction and Development (EBRD), and the European Investment Bank

(EIB) require investors to submit detailed climate risk assessments (2). These assessments help demonstrate the project's environmental benefits and the borrower's resilience strategy against future climate uncertainties. As a result, credit approvals now hinge more strongly on whether investors have factored in physical climate risks and taken adequate measures—often involving both adaptive engineering solutions and firm risk mitigation plans.

## Data-driven Decision Making

Selecting a wind power plant site is a multifaceted process, balancing factors, such as wind resource potential, proximity to transmission lines, and local construction conditions. However, climate-driven risks—like future wildfire probability or increased frequency of intense storms—must no longer remain an afterthought. If a given climate projection indicates a heightened risk of wildfires, for instance, and the topographical data shows dense forestation near the planned site, additional investments in fire suppression systems or auxiliary firefighting equipment may be prudent. In areas with higher lightning frequency, the capacity of lightning protection systems might need upgrading from, say, a 25 kA to a 50 or even 75 kA system to ensure operational continuity.

Our company's ultimate goal is to provide an online platform where investors, insurers, and banks can collaboratively monitor and assess these data-driven insights. By integrating our analysis into standard feasibility and "bankable" reports, decision-makers gain a clearer understanding of how climate change could affect both the short-term performance and the long-term resilience of their investments.

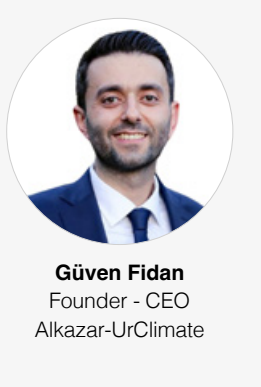
## Conclusion

As the world increasingly relies on wind, solar, and hydropower to bridge the energy gap and reduce carbon emissions, the sector must prepare for the physical risks introduced by the changing climate. While providing cleaner and more sustainable energy, these projects are inherently exposed to environmental extremes. With our high-resolution climate analytics and tailored data products, we empower stakeholders to identify, quantify, and respond to risks with greater precision. In a future marked by uncertainty, a shared focus on robust, data-driven adaptation will be essential for ensuring that renewable energy investments fulfill their potential in both sustainability and resilience.

## References

1. IRENA (2021). *Renewable Capacity Statistics 2021*. International Renewable Energy Agency.
2. IFC (2018). *Climate Investment Opportunities in Emerging Markets*. International Finance Corporation.

*This article is based on the solutions and expertise our company provides, aiming to enhance the resilience of renewable energy projects against climate-induced physical risks.*



**Güven Fidan**  
Founder - CEO  
Alkazar-UrClimate

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7-9 May, 2025  
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OFFSHORE WIND TURKIYE will bring together energy and maritime sector professionals, public institutions, energy investor firms, turbine companies, shipyards, maritime transport companies, measurement and engineering companies, universities, press, and associations. Participants will expand their business networks and increase export volume while having the opportunity to meet with the latest technological advancements.

## Main Topics

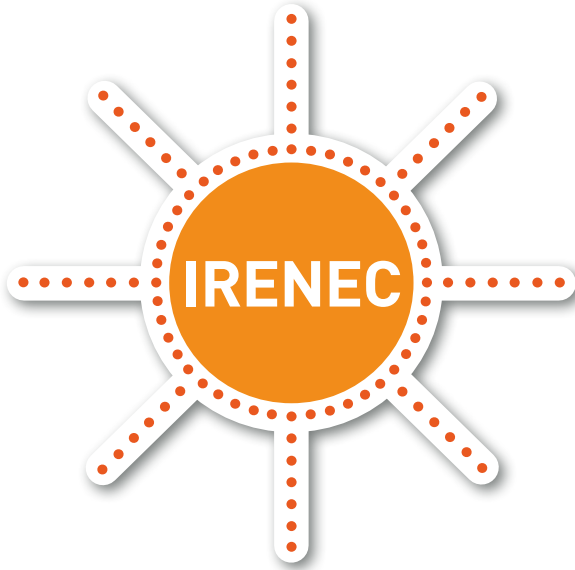
- Turkish Offshore Wind Sector Roadmap – World Bank Special Session
- Latest Offshore Wind Developments in Turkiye – Ministerial Session
- Offshore Wind Project Finance and Investment Possibilities
- Offshore Wind Energy Industry
- Offshore Wind and Shipyards
- Scale up Infrastructure: Offshore Wind and Ports
- Challenges and Opportunities in Offshore Wind
- Cost-effective Integration of Offshore Wind to the Grid
- Offshore Wind Energy in Black Sea Countries

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# TURKISH OFFSHORE WIND: CURRENT STATUS AND OUTLOOK

Murat Durak, PhD

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[www.linkedin.com/company/dured-towea/](http://www.linkedin.com/company/dured-towea/)



**Dr. Murat Durak**

Chairman of the Board of  
the Offshore Wind Energy  
Association (DURED)



## 1. Introduction

Türkiye current total installed capacity is approx. 112 GW of which wind power has a share of 10%. Wind installed capacity has reached approximately 13 MW at the end of January 2025. In terms of onshore wind power, it is a mature market and many experienced contactors can be found within Türkiye for transport, installation, civil scope, etc. The local production of wind turbine components is promoted through the provision of a surplus additional feed-in rate for the wind farm operator. Turbine manufacturers without local manufacturing must overcome this disadvantage with price discounts on the turbine price. The Ministry of Energy and Natural Resources has published the National Energy Plan of Türkiye covering the period 2020-2035. In the scenario prepared by the Ministry, in the period 2020 – 2035, primary energy consumption will reach 205.3 Mtep (Million tons of oil equivalent), electricity consumption will reach 510.4 TWh (Terawatt Hours), while the electricity installed capacity will reach 189.7 GW in total. Offshore wind target is 5 GW till 2035. World Bank report concluded that Türkiye has nearly 75 gigawatts (GW) of technical potential for offshore wind. The report detailed Türkiye's technical potential for offshore wind. The most attractive areas for offshore wind lie in the northwest in the Aegean Sea where wind speeds rise to 9 meters per second (m/s) the report said. The "Offshore Wind Energy Turkey Roadmap" Report, in which Turkey's offshore wind energy potential is analyzed and the road map to be followed for the development of this field is stated, was shared with the sector by Turkish Offshore Wind Energy Association (DURED). Moreover, the "Offshore Wind Energy Sector Inventory" Report, which involves all stakeholders of offshore wind energy in Türkiye, was also presented.

Recently, in October 2024, the Minister of Energy and Natural Resources, Dr. Alparslan Bayraktar, presented the 2035 Renewable Energy Road Map ("Road Map"), introducing significant updates to Türkiye's renewable energy objectives in the National Energy Plan. As highlighted in the presentation, Türkiye's installed renewable energy capacity reached 67.4 GW as of September 2024, representing 59% of the total installed electrical energy capacity. The primary objective of the Road Map is to increase the installed capacity of solar and wind energy from the current 31.1 GW to 120 GW, which marks a substantial 45% increase over the previous target of 82.5 GW set in the National Energy Plan.

There are numerous studies related to offshore wind power potential of the country. Amongst, World Bank Group report mentioning that Türkiye has nearly 75 gigawatts (GW) of technical potential for offshore wind. The report also detailed Türkiye's technical potential for offshore wind. "The most attractive areas for offshore wind lie in the northwest in the Aegean Sea where wind speeds rise to 9 meters per second (m/s)," the report said.

The Road Map was followed by the Ministry's publication of its 2024-2028 Strategic Plan ("Plan"), which outlines several objectives as part of the new policy framework. The foremost objective reiterates the Ministry's commitment to ensuring sustainable energy security. To achieve this, the Plan aims to increase the installed electricity capacity to accommodate the rising demand, enhance grid flexibility for the integration of additional renewable energy sources, and foster greater international investment collaboration within the domestic energy sector. Importantly, a key focus of the Plan is the transition to a net-zero carbon energy framework. To this end, the Ministry projects that the share of renewable energy in total electricity production will rise from 45% in 2024 to 50% by 2028.



The REZ tender model and similar initiatives are anticipated to play a significant role in achieving this target, with the Plan specifically highlighting the implementation of innovative renewable energy projects, including offshore wind farms and floating solar power plants. The Plan also highlights the importance of revising and updating the regulatory framework to support the clean energy transition. It is further projected that, by 2028, new regulations will be implemented to improve investment climate and simplify approval and permit procedures within the energy sector. Taken together, these objectives align with the Ministry's recent initiatives for advancing the future of the renewable energy sector.

Turkiye wants to add offshore wind to its energy mix in the coming years, and based on this aim, the country plans open tenders for Offshore Wind projects in 2025.

## **2. Outlook for Offshore Wind Power Market in Turkiye**

Based on Turkiye's success in onshore wind, the Turkish Government announced plans in early 2018 to expand into offshore wind which is postponed. Offshore wind is experiencing global and increasing pressure to deliver energy at lower and lower costs. At the same time, the countries where the wind farms are being installed are increasingly aiming to profit from the manufacturing and installation of the wind farms, as well as the lower energy cost. In 2022, it is expected that 1500 MW capacity tender to be announced by Energy Ministry.

### **National Energy Plan of Turkiye**

The Ministry of Energy and Natural Resources has published the National Energy Plan of Turkiye covering the period 2020-2035. In the scenario prepared by the Ministry, in the period 2020 – 2035, primary energy consumption will reach 205.3 Mtep (Million tons of oil equivalent), electricity consumption will reach 510.4 TWh (Terawatt Hours), while the electricity installed capacity will reach 189.7 GW in total.

Installed power planning in the field of energy for 2035

**Wind energy: 24.6 GW onshore + 5 GW offshore total 29.6 GW**

Solar energy: 52.9 GW

Hydroelectric power: 35.1 GW

Other renewable energy: 5.1 GW

Nuclear power: 7.2 GW

Conventional sources: 59.8 GW

Electrolyzer capacity: 5 GW

## **3. Power Purchase Tariff for Offshore Wind**

The Turkish Republic Presidency has published a decree (Decree no. 7189) dated May 1, 2023 and announced new 10-year feed-in tariffs and 5-year domestic production incentives for renewable power projects commissioned between 1 July 2021 and 31 December 2030 under the new renewable energy support mechanism (YEKDEM). The feed-in tariff levels are determined in Turkish lira and will be subject to a quarterly escalation mechanism, based on the producer price index, consumer price index, US dollars purchase rates and euro purchase rates; FiTs in US dollars will be subject to a cap.





| Renewable Energy Resources             |                                   | Yekdem Tariff (Turkish Lira/kWh) | Term (Years) | YEKDEM base price (USDc/kWh) | YEKDEM cap price (USDc/kWh) | Domestic Component (local content) (Turkish Lira/kWh) | Domestic Component Term (Years) |
|----------------------------------------|-----------------------------------|----------------------------------|--------------|------------------------------|-----------------------------|-------------------------------------------------------|---------------------------------|
| Hydro power plants                     | With reservoir                    | 144,00                           | 10           | 6,75                         | 8,25                        | 28,80                                                 | 5                               |
|                                        | River type (without reservoir)    | 135,00                           | 10           | 6,30                         | 7,70                        | 28,80                                                 | 5                               |
| <b>Wind power plants</b>               | Onshore                           | 106,00                           | 10           | 4,95                         | 6,05                        | 28,80                                                 | 5                               |
|                                        | <b>Offshore</b>                   | <b>144,00</b>                    | <b>10</b>    | <b>6,75</b>                  | <b>8,25</b>                 | <b>38,45</b>                                          | <b>5</b>                        |
| Geothermal                             |                                   | 202,00                           | 10           | 9,45                         | 11,55                       | 28,80                                                 | 5                               |
| Biomass                                | Landfill gas or by-products       | 106,00                           | 15           | 4,95                         | 6,05                        | 28,80                                                 | 5                               |
|                                        | Biomethanization                  | 173,00                           | 10           | 8,10                         | 9,90                        | 28,80                                                 | 5                               |
|                                        | Thermal disposal in biomass-based | 134,90                           | 10           | 5,75                         | 8,00                        | 21,58                                                 | 5                               |
| Solar                                  |                                   | 106,00                           | 10           | 4,95                         | 6,05                        | 28,80                                                 | 5                               |
| Wind / solar including storage systems |                                   | 125,00                           | 10           | 5,85                         | 7,15                        | 38,45                                                 | 10                              |
| Pumped Hydro Storage                   |                                   | 202,00                           | 15           | 9,45                         | 11,55                       | 38,45                                                 | 10                              |
| Wave and tidal forces                  |                                   | 135,00                           | 10           | 6,30                         | 7,70                        | 38,45                                                 | 10                              |

#### 4. MetOcean and Wind Measurement Site Investigation in Türkiye

The Ministry of Energy and Natural Resources (MENR) has received a grant from the European Union toward the cost of the EU Instrument for Pre-Accession (IPA) Energy Sector Program Phase IV Project, and intends to apply part of the proceeds for Consulting Services. The Consulting Services ("the Services") include the conduction of meteorological and oceanographic analysis and measurements at specific offshore sites to be selected by MENR. The studies include:

1. Analysis, measurement and survey activities informed through the application of meteorological and oceanographic measurement systems,
2. Acquisition of high-quality and reliable meteorological and oceanographic data,
3. Preparation of meteorological and oceanographic measurement system application and data analysis reports,
4. Preparation of geological, geophysical and geotechnical seabed survey reports and assessment of all survey outputs, and other relevant activities. (Geological, geophysical and geotechnical measurements will be carried out under a separate contract while the data obtained from the relevant measurements will be assessed under this assignment.)

IPA Sites selected in Marmara Sea.

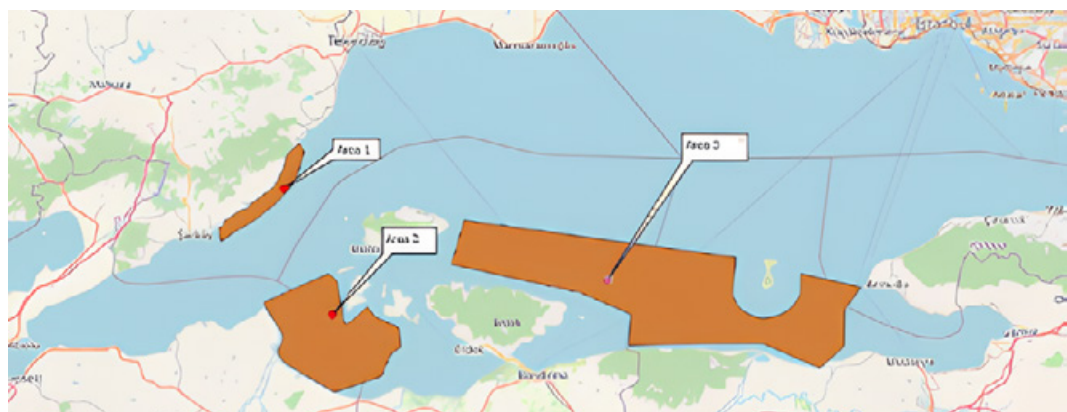


Figure 2. IPA Sites selected by the MENR.

3 companies already did bid for the MetOcean Tender and the process is pending.



## 5. Environment and Social Commitment Plan for Offshore Wind Support Project

The Republic of Türkiye (the Recipient) will implement the EU Instrument for Pre-Accession (IPA) Energy Sector Program Phase IV– Offshore Wind Support Project (the Project), through the Ministry of Energy and Natural Resources (MENR). The International Bank for Reconstruction and Development (the Bank), acting as administrator of the European Union Instrument for Pre-Accession Trust Fund, has agreed to provide financing for the Project, as set out in the referred agreement. The Recipient through MENR shall ensure that the Project is carried out in accordance with the Environmental and Social Standards (ESSs) and this Environmental and Social Commitment Plan (ESCP), in a manner acceptable to the Bank. The ESCP is a part of the Grant Agreement. Without limitation to the foregoing, this ESCP sets out material measures and actions that the Recipient shall carry out or cause to be carried out, including, as applicable, the timeframes of the actions and measures, institutional, staffing, training, monitoring and reporting arrangements, and grievance management. The ESCP also sets out the environmental and social (E&S) instruments that shall be adopted and implemented under the Project, all of which shall be subject to prior consultation and disclosure, consistent with the ESSs, and in form and substance, and in a manner acceptable to the Bank. Once adopted, said E&S instruments may be revised from time to time with prior written agreement by the Bank. As agreed by the Bank and the Recipient, through MENR, this ESCP shall be revised from time to time if necessary, during Project implementation, to reflect adaptive management of Project changes and unforeseen circumstances or in response to Project performance. In such circumstances, the Recipient, through the MENR, and the Bank agree to update the ESCP to reflect these changes through an exchange of letters signed between the Bank and the Recipient, through MENR. The Recipient, through MENR shall promptly disclose the updated ESCP. This has been already awarded by RPS Global Inc.

## 6. RERA Offshore Wind Project Sites

Within the scope of the Renewable Energy Resource Zone (REZ) Regulation; Ministry of Energy and Natural Resources announced four Offshore WPP Candidate REZ.

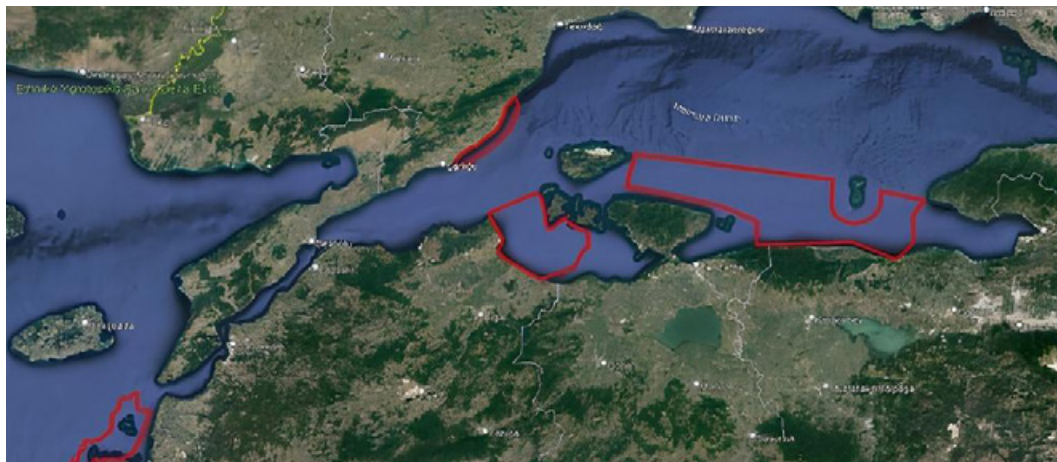


Figure 3. RERA Offshore wind project sites selected by the MENR.

## 7. Complementing Updated Objectives: “Super Permit”

The updated objectives have prompted discussions on legislative reforms aimed at reducing administrative burdens on investors and project developers, thereby accelerating the development of renewable energy projects. To ensure an expedited procedure, a scheme called “super permit” for renewable energy projects has been proposed by the Ministry to facilitate investment by reducing the approval period of renewable energy projects from an often burdensome 48 months to two years or less.

In this framework, the Ministry has proposed reforms to simplify administrative procedures, including expediting Technical Interaction Analyses to 4-5 months, concluding



» expropriation permits within 6-9 months, streamlining forest permits to 4-6 months, and finalizing zoning and licensing procedures within approximately 3 months. Perhaps most notably, the Ministry envisages the process for Environmental Impact Assessment (“EIA”) —a vital measure to ensure that all potential adverse environmental impacts of a planned project are identified in advance and that necessary measures are taken—to be completed within 3 to 6 months, with other permit applications potentially being conducted simultaneously with the EIA process. These proposed incentives, designed to attract investors and position Türkiye as a global competitor in the renewable energy sector, have sparked concerns among NGOs, who warn that such rapid advancements may come at the cost of the country’s environmental values.

## 8. Conclusion

With growing global efforts to combat climate change and enhance energy security, renewable energy projects are experiencing substantial growth. In this context, Türkiye has recently indicated its commitment to advancing its renewable energy policy with the 2035 Renewable Energy Road Map and the 2024-2028 Strategic Plan. The updated objectives are expected to be supported by legislative reforms like the ‘super permit’, introducing new incentives that simplify administrative procedures and project development. However, the anticipated growth in renewable energy projects may bring with it the risk of disputes. As Türkiye is becoming an increasingly attractive hub for investments in renewable energy projects, investors should be mindful of common technical and legal challenges inherent to these projects, and strategically review risk allocation in contractual agreements to mitigate potential disputes, dispute resolution mechanisms and overall investment protection as well as political risk insurance.

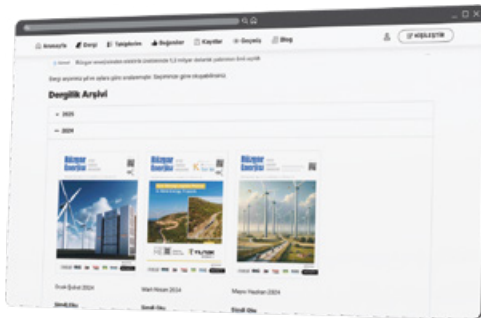
### References:

Turkish Offshore Wind Energy Association, Denizüstü Rüzgar Enerjisi Derneği (DÜRED).

Turkish National Energy Plan, 2023.

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**Rüzgar Enerjisi** WIND ENERGY MAGAZINE





## Chairperson of the board of ENSİA, Alper Kalaycı:

***“The Turkish wind industry expects at least 2000 MW of YEKA every year and our recommendation is that the wind YEKA calendar for the next 4 years to be determined today.”***

The Turkish wind energy sector, which closed 2024 with an installed capacity of 12,575 Megawatts (MW), made an optimistic start to 2025 with the applications for Renewable Energy Resource Areas (YEKA) of 1,200 MW, which started to be received in January. The wind energy sector, which remained well below its potential by providing only a 770 MW installed capacity increase in 2024, expects at least 2,000 MW YEKA competitions to be held each year, the results to be announced and the projects to be put on the field.

Making assessments regarding the current status and future vision of the sector, Chairperson of the Board of Energy Industrialists and Business Association (ENSİA), Alper Kalaycı noted that at least 1 billion 200 million dollars will be invested in the sector with the YEKA competition held by the Ministry of Energy and Natural Resources on January 21, and reminded that the sector suffered a loss of blood as a result of the YEKA competition not being held in the last two and a half years. Kalaycı stated that the last tender was managed very well by our Ministry of Energy, was transparent and carried out as planned, and drew attention to the importance of ensuring the continuation of this situation.

### **The two and a half year break caused blood loss**

Kalaycı, who pointed out that hundreds of companies operating in the main and sub-industry formed a large value chain together with the investors who won YEKA competitions, stated that imposing an obligation on investors to use turbines with a high local content will also make a serious contribution to the Turkish wind energy industry.

Emphasizing that all companies operating



in the sector expect YEKA to be carried out on a scale of at least 2 thousand MW every year, ENSİA Chairperson Alper Kalaycı made the following assessment:

“Our suggestion is that the YEKA calendar for the next four years be determined and announced to local and foreign investors by our Ministry. If we clarify these dates today, investors will be able to see ahead and make their plans. A wind turbine consists approximately 8 thousand parts and components. Our country did not hold a YEKA competition for a very long time, such as two and a half years, and the sector has almost entered a waiting state.

This year, the sector has become more excited again. If the continuity of these projects is ensured, the manufacturers in the wind energy sector will have a better view of their future planning and new investments. We think that foreign investors will also evaluate this action positively and will be eager for new investments. We also think that domestic and foreign investors in Türkiye will be able to expand their businesses in the production of some components as their foreseeable ideas about YEKA are formed.”

### **“we Can Reach 2035 Targets Easily”**

Alper Kalaycı underlined that it would be easy to achieve Türkiye’s revised wind and solar energy installed power target of 120 thousand MW for 2035 with the right





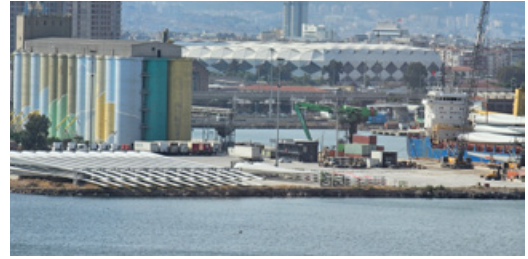
planning. Kalaycı stated that Türkiye has a high potential in wind energy and that 2,500-3 thousand MW of wind energy could be put into operation each year, and that in this case, the domestic market would become attractive.

Kalaycı also reminded that apart from terrestrial wind power plants, there is a target of 5 thousand MW offshore wind energy in 2035, and added that they expect the tender processes to start as soon as possible in this field.

### **It's time to act in the offshore wind energy**

Alper Kalaycı added that they were particularly proud of ENSİA's pioneering of the first Industrial Inventory study focusing on offshore wind energy in Türkiye, and continued as follows:

“Our companies operating in the wind industry in Izmir constitute 85 percent of the total turnover of the Turkish wind industry. We are ready to demonstrate this success in the production of offshore wind power plants. The design of the Çandarlı Port and feedback area with a structure focused on the production of wind power plants will enable Türkiye to become the world's most important production and export center in this field. As the clean energy sector, we believe in this vision of the Ministry of Industry and Technology and support it to the end. We emphasize at every opportunity that these investments will provide great value to our country in terms of employment. Offshore wind energy sector, which have a large mechanism that places orders



to many sectors, can provide ten times more employment compared to terrestrial wind energy. Türkiye's position among the world's most advanced countries in the shipyard sector is among the factors that reduce the dependency of offshore wind energy on imports in all equipment production and assembly. This advantage makes it possible for all engineering calculations, designs, R&D and construction of all facilities to be built on the sea to be done domestically with the means of Turkish companies.”

# ETKİNLİK TAKVİMİ / EVENT CALENDAR



03-04 Mart 2025  
**14. TEMİZ ENERJİ GÜNLERİ**  
Süleyman Demirel Kültür Merkezi  
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24-26 Nisan 2025  
**ICCI**  
İstanbul Fuar Merkezi Yeşilköy Bakırköy İstanbul  
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05-07 Mart 2025  
**KEY - The Energy Transition Expo**  
Rimini  
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Moneta stantlı katılım.



07-08 Mayıs 2025  
**OFFSHORE WIND TURKIYE**  
Çanakkale Onsekiz Mart Üniversitesi  
<https://offshorewindturkiye.com>



08-10 Nisan 2025  
**WİNDEUROPE KOPENHAG**  
Kopenhag  
[www.windeurope.org/annual2025/](http://www.windeurope.org/annual2025/)  
Moneta stantlı katılım.



07-09 Mayıs 2025  
**IRENEC**  
İstanbul Beykent Üniversitesi / Ayazağa  
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09-12 Nisan 2025  
**TUBE STEEL İstanbul**  
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15-17 Mayıs 2025  
**IFAT Eurasia**  
Tüyap Fuar ve Kongre Merkezi  
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14-25 Nisan 2025  
**X. İSTANBUL KARBON ZİRVESİ**  
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[www.karbonzirvesi.com](http://www.karbonzirvesi.com)  
Moneta stantlı katılım.



28-31 Mayıs 2025  
**WIN EURASIA**  
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16-19 Nisan 2025  
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1-2 Temmuz 2025  
**NUCLEAR POWERPLANTS EXPO**  
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24-26 Nisan 2025  
**FOTEG İSTANBUL 2025**  
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18-20 Eylül 2025  
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24-26 Nisan 2025  
**11. TAVUKÇULUK VE TEKNOLOJİLERİ ULUSLARARASI İHTİSAS FUARI**  
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[www.vivturkey.com](http://www.vivturkey.com)  
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22-25 Ekim 2025  
**ISK-SODEX**  
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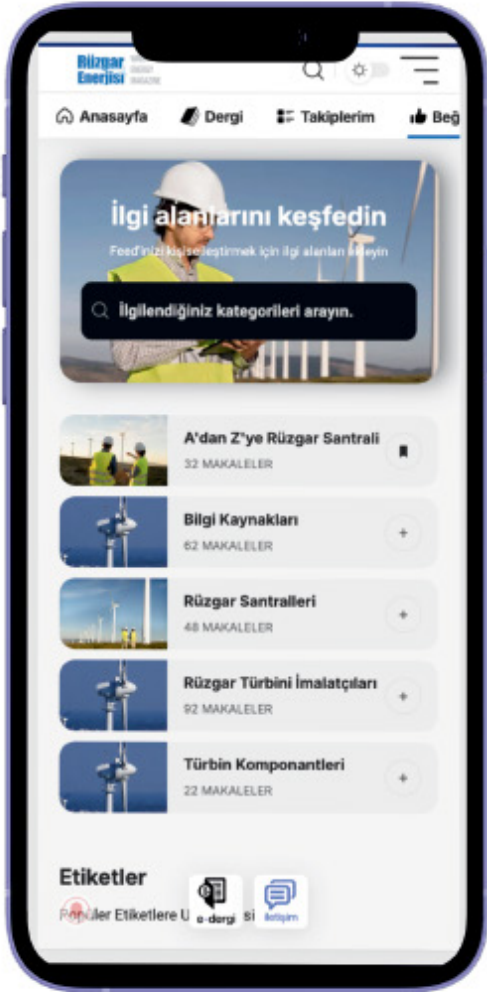


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# Offshore Wind Türkiye 2025 Event



TURKISH  
OFFSHORE  
WIND ENERGY  
ASSOCIATION

**TOWEA**



Troy Ancient City

**7-8 MAY 2025**

City of Çanakkale

[www.offshorewindturkiye.com](http://www.offshorewindturkiye.com)



Coordinator



**ENSİA**

Partners



GISBIR  
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