Danish Wind & Power-to-X delegation

6 March - 10 March 2023

Texas, USA

DANSK ERHVERV
Danish Chamber of Commerce

Funded by the European Union

MINISTRY OF FOREIGN AFFAIRS OF DENMARK
The Trade Council

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About us

ABB is a technology leader in electrification and automation, enabling a more sustainable and resource-efficient future. The company's solutions connect engineering know-how and software to optimize how things are manufactured, moved, powered and operated. Building on more than 130 years of excellence, ABB's 105,000 employees are committed to driving innovations that accelerate green transformation.

Energy Industries division is enabling safe, smart, and sustainable projects and operations and driving integrated solutions that automate, digitalize, and electrify operations across industries. The division strives to connect our people and technology capabilities, along with our robust global execution capacity and widespread service footprint to help customers adapt and succeed. We continue to innovate and reshape traditional approaches across the energy sector with our technologies, designed to improve operational efficiency, reduce risk, decrease energy consumption and waste – all for a greater purpose.

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About us

AIP is a direct infrastructure investment platform for institutional investors.

Originally established as PKA AIP in 2012, AIP has grown into an independent investment manager dedicated to advising institutional investors on direct equity and debt investments into renewable energy and infrastructure assets in Europe and the US. To date, AIP has invested more than EUR 7.9 billion, of which USD 1.4 billion has been deployed in the US, and is currently investing out of its EUR 4 billion fund, AIP Infrastructure II. AIP is an investor in three renewable energy assets in Texas with a gross capacity of 958 MW.

AIP's investors include the Danish pension funds PKA, Pensam, Akademiker Pension and Lærernes Pension, the Norwegian financial group Storebrand and a group of Swiss institutional Investors. AIP is headquartered in Copenhagen, with additional offices in New York, London, and Madrid.

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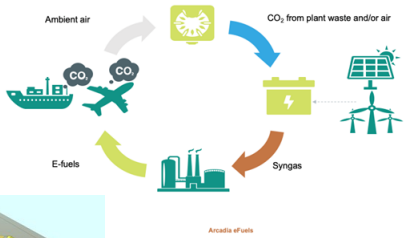
About us

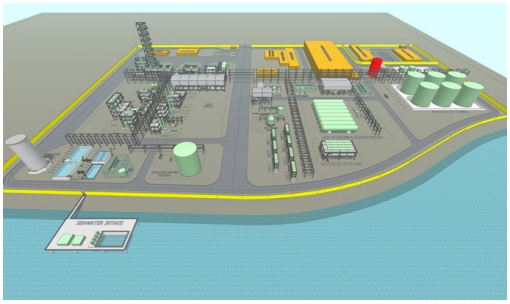
Arcadia will produce the world's future fuels to protect our environment and power our world and help decarbonizing Aviation.

Arcadia will produce the world's future fuels achieved by creating net zero carbon fuels using existing infrastructure that work in existing engines as drop in fuels. Our process creates green hydrogen from renewable electricity and seawater. The H2 is then combined with biogenic carbon dioxide, converted to syngas, and then processed into eFuels using the commercially proven Gas to Liquids (GTL) process. Arcadia follows a "design one build many" approach, replicating a standardized design in multiple locations throughout the world using commercially proven technology. Each eFuels' plant will provide ~100 million liters/year of net zero carbon fuels and ~70 jobs. Some Arcadia plants will also produce eDiesel.

Arcadia will be in production in 2026 with the first-of-a-kind plant in Vordingborg Port.

Production of eFuels removes carbon from atmosphere, reversing CO2 emissions so full lifecycle is circular and net zero carbon





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The key to innovative and efficient production of biogas

About us

Biogasclean is market leader in biological desulfurization and methanation of biogas, with a mission to contribute to the transformation from fossil fuels to renewable energy by development and supply of innovative solutions for efficient production of biogas in industrial scale and CCU projects.

The company develops, manufactures and delivers fully automated systems. Biogasclean's track record comprises more than 340 projects in more than 40 countries. The company has two technologies for biological desulfurization of biogas, respectively BTR (Bio Trickling Reactor) and MBR (Moving Bed Reactor). The gas cleaning systems can be designed for every biogas plant size and can handle any flow and H_2S content in the raw biogas or the tail gas (CO_2 stream) from biogas upgrading (RNG). Biogasclean has developed a biological P2G technology (Power-To-Gas) for methanation of carbon dioxide (CO_2) and hydrogen (H_2) to electro-methane (CH_4).

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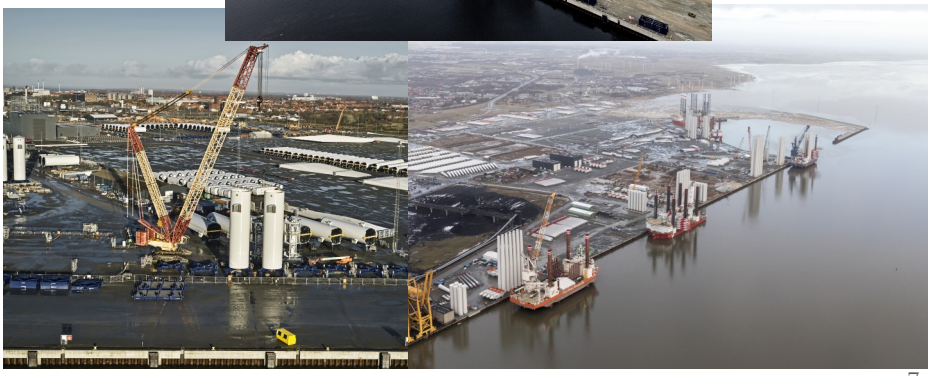
BUSINESS ESBJERG

About us

Esbjerg Means Business

As the world leading offshore wind port, Esbjerg has contributed to the green transition with more than 4.000 offshore wind turbines and 20 GW of power thanks to our strong supply chain of suppliers in wind and oil & gas. With gigawatt projects in Power-to-X, Esbjerg is part of the transition to green hydrogen production.

Business Esbjerg assists with your investment with local business insight, one point of contact, land and property search, taskforce service, connecting you with the relevant partners in Esbjerg and network opportunities. Our business focus are digital hub, offshore wind production hub, energy island commissioning and servicing, power-to-x production and carbon capture storage in the Danish North Sea.



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About us

Founded in 2012, Copenhagen Infrastructure Partners P/S (CIP) today is the world's largest dedicated fund manager within greenfield renewable energy investments and a global leader in offshore wind. The funds managed by CIP focuses on investments in offshore and onshore wind, solar PV, biomass and energy-from-waste, transmission and distribution, reserve capacity, storage, advanced bioenergy, and Power-to-X.

CIP manages ten funds and has to date raised approximately EUR 19 billion for investments in energy and associated infrastructure from more than 140 international institutional investors. Today, we have earmarked EUR 3.2bn for investments into clean hydrogen, associated technologies and infrastructure. We hold a portfolio of projects of +15GW electrolyzer in Australia, Europe, Latin and North America, the Middle East and Africa that provides us with a unique opportunity to compare the economics and commercial viability of projects on a global scale. CIP has approximately 400 employees and 11 offices around the world.

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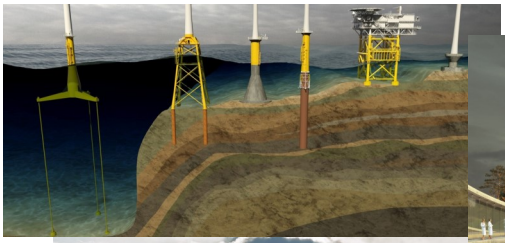
COWI

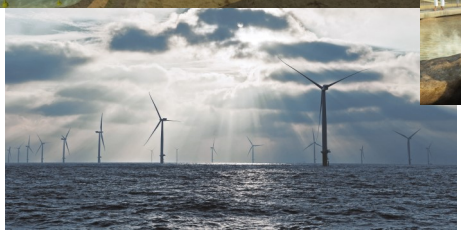
About us

As a consulting group within engineering, architecture, economics, and environmental science, COWI is dedicated to accelerating the green transition together with our customers and partners. COWI aspires to be a trusted advisor co-creating our customers' sustainable success and we do this by applying our global expertise in local contexts. Our strategic market areas cover sustainable energy, large infrastructure, large buildings, and climate adaptation and water.

Within sustainable energy, we co-create renewable energy solutions, carbon capture, and hydrogen facilities enabling e-fuels production.

COWI acts as a knowledge partner in strategic partnerships. We undertake technical deep dives and produce concept studies and designs for both offshore wind farms and sector coupling for hydrogen production. Our strong in-house competences in process engineering, thermal power and offshore renewables allow us to bridge the technical gap to commercial readiness and contribute to renewables projects at all stages of the value chain.





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About us

One large, international technology provider with a broad and strong business .

For 50 years, CS electric has serviced the marine industry nationally and globally with the development of new systems for energy optimization, as well as upgrading and maintenance of existing systems. We work purposefully to integrate technology into our customers' daily operations with a primary focus on improving their competitiveness. We incorporate sustainability and energy optimization into our solutions, which benefits society and our customers both financially and environmentally.

Therefore, we understand the industry and the importance of a fleet performing under competitive conditions. CS electric are technology provider of electrification of Specialized Hydrogen Fuel Cells in marine solutions, we are able to deliver a combined product consisting of low noise, 100% emission free electrical power of Hydrogen Fuel Cells. Integrated into movable containers with all necessary power electronics and switchgear by CS electric. This combination is already being delivered to the Port of Esbjerg in Denmark which is also the country of residence for CS electric and a Fuel Cell provider.

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About us

DAFA is a trusted partner with more than 30 years of experience in developing and manufacturing foam and rubber solutions for the wind turbine industry – both onshore and offshore.

Our solutions are part of more than 100,000 active wind turbines worldwide as we supply the world's largest manufacturers of wind turbines and sub suppliers with products and solutions for transportation, construction, and operation.
We specialize in solutions and materials that seal, absorb, and protect. Among these are gaskets, molded parts, rubber profiles, self-adhesive sealing strips, sound dampening materials, vibration insulation, and transport solutions.

DAFA has more than 300 employees and subsidiaries in Europe, Asia, and the USA, allowing us to efficiently take care of customers' local and global requirements.

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About us

DIS/CREADIS is a leading provider of innovative, end-to-end engineering solutions with +25 years of expertise within the renewable energy sector. Rooted in our passion for technology, we deliver consulting and solutions that decrease time-to-market, optimize supply chain efficiency, and reduce operations & maintenance costs at scale.

We are a trusted partner with core competencies within wind turbine engineering and testing, power & production plant engineering asset management – ranging from full-scale, end-to-end plant optimization to digital engineering specializations within areas such as industrial & process automation, predictive maintenance, and reliability engineering to custom testing and production machine building.

Our team of Expert Engineers bring a deep understanding of the latest technology and trends to deliver customized solutions. We work closely with each customer to understand their vision and deliver results-driven solutions that meet their unique needs and achieve their business objectives.

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DBW
Danwind Blue Water

About us

Backed by strong owners: the large multimodal logistics company, Blue Water Shipping and Danwind Spare Parts our company offers installation and service work for WTG OEMs and WTG owners.

Together with our owners, Danwind Blue Water offers one-stop-shop solution for wind projects: Combining transport, installation, and service solutions to wind park developer and owners.

Currently we are focusing on Europe with the goal of extending operations into North America during 2023.

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Danmarks Eksport & Investeringsfond

About us

Denmark's Export and Investment Fund (EIFO) is a financing fund backed by the Danish state and regulated by law. EIFO has a decades long track record of supporting renewable energy projects, for the most part within wind energy. Our new and enhanced PtX & CCUS effort is sending a strong signal to the market of our support and dedication to the next stage of the green energy transition

EIFO works together with commercial banks to facilitating long term financing solutions for projects in and outside Denmark. EIFO operates on commercial terms and adds financing capacity through its participation. Much of its portfolio is based on the financing of wind power projects, but it's looking further ahead.

The massive investment in PtX in the coming decades requires available long -term financing sources at scale. EIFO has a keen interest in supporting these projects, providing senior financing together with commercial banks. As the PtX-projects represent new technology and offtake structures - the task ahead resembles that of the early days in the wind power industry.

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About us

European Energy builds green solutions to fight climate change. We develop, construct and operate wind and solar farms all around the world. Our farms supply consumers and companies with green power and provides a stable revenue to the institutional investors we are cooperating with. European Energy has constructed around 3 GW wind and solar PV farms, and is currently building its first two Power-to-X facilities that will deliver green fuels to power the shipping sector from 2023.

EE North America, a subsidiary of European Energy, has announced its entrance into the U.S. market, leveraging its expertise in renewable energy project development and partnerships with other industry-leading firms. EE North America's ambition is to develop 10 GW of renewable energy in the United States by 2026, helping state and local governments across the U.S. achieve net-zero goals.

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Eurowind Energy™

About us

Eurowind Energy is a global and leading developer, owner, and operator of PtX, solar, wind energy projects. We are headquartered in Denmark with more than 350 employees present in 16 countries across Europe and in USA.

In America, we hold a development pipeline of several gigawatt renewable projects in five states. The construction of our first American project will begin later this year with a 150 MW solar farm near Greenville, Texas.

We have extensive expertise with onshore hybrid projects that combines various forms of renewable energy generation with PtX and biogas, including the development of large energy centers and storage solutions.

Eurowind Energy are currently constructing in nine countries accounting for 465 MW solar and wind capacity. We own and operate more than one GW solar and wind capacity globally with an growing asset base.

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About us

Everfuel will facilitate the complete hydrogen value chain from hydrogen production to point of delivery. This enables Everfuel's objectives and activities to expand rapidly and provide competitive hydrogen prices to end-users.

Everfuel is leading the flagship project HySynergy involving the establishment of a 20 MW PtX facility in 2022 aiming for + 1 GW before 2030.

The purpose of the HySynergy project is to establish phase I of a large-scale production and storage of green hydrogen, that will support the reduction of the carbon footprint within the existing Crossbridge Energy's refinery processes as well as establish a competitive supply of green hydrogen as zero emission fuel for heavy-duty transportation.

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About us

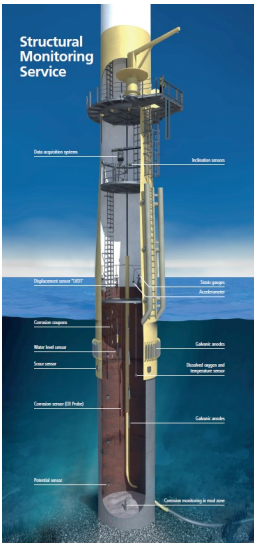
FORCE Technology has delivered technical services and products to the industry since 1939.

In the wind industry we work with all the leading OEM's and developers and have 30 years' experience in the offshore wind business.

We develop, build, install, commission and service, equipment and complete solutions for developers, OEM's and their suppliers in the following technical fields:

- Scanners for inspection and testing of blades, welds in monopiles, TP's and towers
- Monitoring systems for WTG offshore monopiles, TP's, and towers (loads, corrosion, water quality..
- Simulation of ship designs and maritime operations
- Tow tank and wind tunnel tests for optimization of ship designs and maritime operations
- Mechanical testing including fatigue testing of full-scale components.

In P-t-X we deliver testing of materials and components, calibration of meters, advisory and development services.
FORCE Technology is based in Denmark and deliver equipment and services worldwide.



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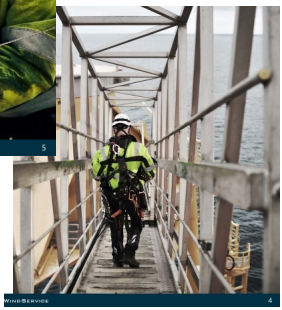
About us

Global Wind Service is a Preferred Wind Turbine Installation & Service Partner

Our offerings span from large scale project execution – planning and execution including risk assessment, documentation, logistics, manning, tools, equipment, and cranes – to small, specialised teams, configured for specific tasks.

We serve wind industry clients all over the world and have a long track record in delivering supreme quality and flexibility.

We hand-pick the right team for each assignment and make sure that it is supported by experienced project managers and well-proven processes. Our aim is to add value for our clients, to deliver efficiently and at the lowest possible risk, and we do this by applying all our experience and knowledge about the wind industry.



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GREEN HYDROGEN SYSTEMS

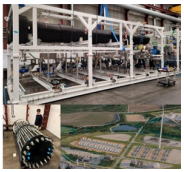
About us

Founded in 2007, Green Hydrogen Systems is a leading OEM provider of ultra-efficient, modular electrolysis equipment for producing green hydrogen with renewable energy.

We offer electrolyser solutions for every scale, combining proven pressurised alkaline electrolysis technology in a local production setup with an uncompromised focus on safety, environmental standards, and quality assurance. Each module can be used as a stand-alone electrolyser or combined in clusters for larger multi-MW and GW applications.

The HyProvide™ A-series is a self-contained, plug-and-play solution, configured for maximum efficiency, versatility, and scalability while the HyProvide™ X-Series is optimised for use in the growing market for large-scale applications in, for example, industry, energy and heavy-duty transport sectors. Its unique multi-stack concept allows the electrolyser to reach higher voltages crucial to utilise mass-produced, low-cost and high-efficiency power electronics from wind and solar markets.

We are committed to supplying technology and services to accelerate the global transition toward a decarbonised world running on green hydrogen.



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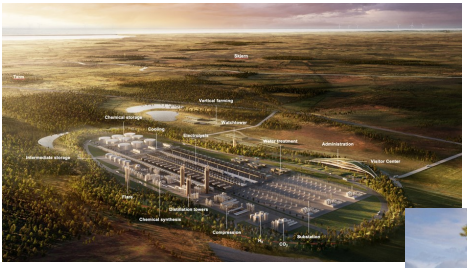
About us

GreenGo Energy was founded in 2011 with the vision to accelerate conversion to renewable energy generation by an innovative and scalable business model based on partnerships with Tier1 investors in the renewable space. GreenGo Energy's 360 services platform includes project origination, portfolio investment structuring, development, offtake, EPC management and asset management services, fully tailored and bespoke to our client's needs and investment profile.

GreenGo Energy now has 14 GW of solar, wind and P2X projects in various stages of development and construction in 7 U.S. states and Northern Europe, of which 3.9GW has been contracted through partnership agreements with tier 1 investors in the renewable space.



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About us

GreenLab is a specialised company building and operating a green and circular industrial park. GreenLab's core product is the SymbiosisNetTM, which is an intelligent infrastructure grid that allows industrial tenants to exchange surplus energy and resources.

As a plug-and-play facility, GreenLab offers to project manage, build, and finance necessary infrastructure for its partners in a cost-effective setup. The platform and its wholistic approach is ideal for Power-to-X, and two major projects are well underway.

GreenLab is a living lab, and a regulatory test zone, with proven track record of accelerating research and technology to commercial scale. GreenLab's coinciding research and education platform facilitates interdisciplinary and mission driven research and disseminates accumulated learning through education programs.

GreenLab's vision is to replicate the model and become a global showroom for industrial clusters around the world wanting to create local green growth.

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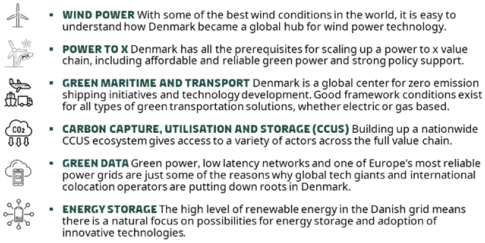
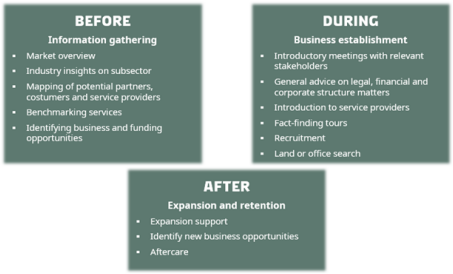
MINISTRY OF FOREIGN AFFAIRS
OF DENMARK
Invest in Denmark

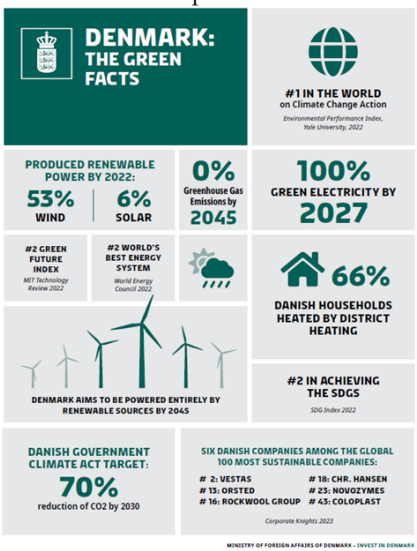
About us

Invest in Denmark is Denmark's national investment promotion agency and an integrated part of the Trade Council under the Ministry of Foreign Affairs We provide tailor made solutions for foreign companies looking to set up or expand business or research activities in Denmark, in full confidentiality and free of charge. With a strong global and regional Danish set-up of ~65 employees, we assist with approx. 60 successful investment projects per year (+1,500 jobs).

As a global leader in wind energy, Denmark provides some of the best conditions in Europe for large scale PtX projects. Today, the Danish electricity grid has the world's highest penetration of renewable energy, and 100% green electricity is foreseen by 2027. In parallel with the ongoing establishment of additional offshore wind farms, Denmark has planned two "energy islands" which are expected to provide ~13GW of power.







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LM WIND POWER
a GE Renewable Energy business

About us

LM Wind Power, a GE Renewable Energy Business, part of GE Vernova portfolio of energy businesses, is a world leading designer and manufacturer of rotor blades for wind turbines, with a global manufacturing footprint that includes blade factories in Brazil, Canada, China, India, Poland, Spain, France, Turkey and the United States.

The company, founded and headquartered in Denmark, has produced more than 260,000 blades since 1978, corresponding to more than 142 GW installed capacity and global savings of 305 million metric tons of CO2 annually. LM Wind Power is committed to building Zero Waste Blades by 2030, a step forward in its sustainability journey after becoming the first carbon neutral business in the wind industry in 2018.

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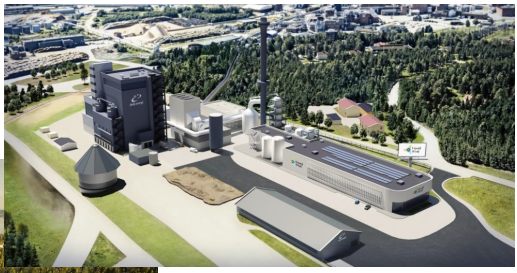
About us

Liquid Wind is a company committed to bringing renewable methanol to market at scale and accelerate carbon neutral transportation.

For this to happen Liquid Wind develops and ensures financing, construction and management of commercial-scale e-methanol facilities. Each facility provides investors with stable and sustainable long-term investment opportunities as well as producing e-methanol for use in the shipping industry, primarily.

By combining proven technologies from large industrial partners Liquid Wind is a part of construction of the first facility in Örnsköldsvik, Sweden. Two additional Swedish projects have been launched in Sundsvall and in Umeå. The intention of the company's +35 dedicated employees is to develop an annual production of 8 million tonnes of e-methanol by 2030.

By 2050 Liquid Wind intends to establish an annual production capacity of 50 million tonnes of green e-methanol to meet growing demand for cleaner fuel and to prevent the emission of 50 million tonnes of carbon dioxide annually.



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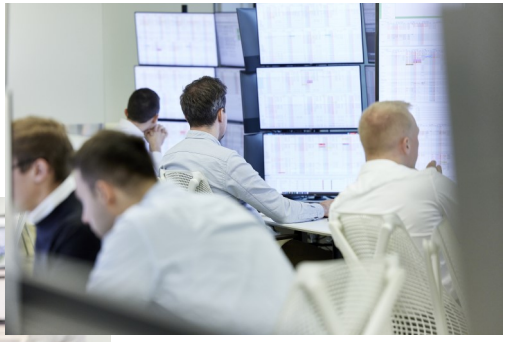
About us

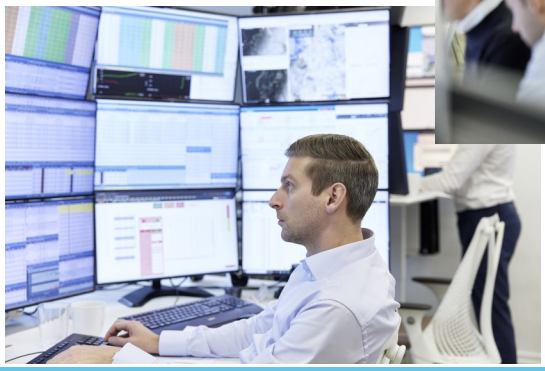
MFT Energy is a Danish Energy trading company – specialized in gas, power and environmentals. Founded in 2017, today headquartered in Aarhus Denmark, operating in more than 30 markets out of Europe, Turkey, USA, and Asia-Pacific.

Our specialized trading teams apply in-depth market knowledge and comprehensive data sets to analyze, build and execute trading strategies that facilitate the green transition and contribute to efficient markets.

In other words we are trading with a purpose to balance supply and demand in the markets, to support energy security by moving power and gas to where it is needed, and to support the green energy transition by making low-cost renewable energy available to neighboring countries and markets in times of abundance.

At MFT Energy we want to employ and develop talented people, and today we have nearly 150 employees worldwide.





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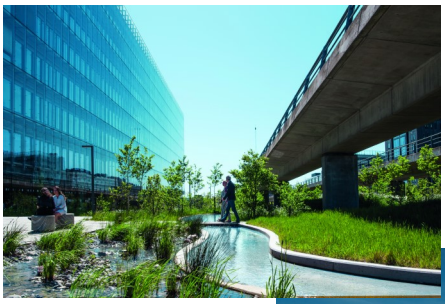
About us

Ramboll is a global engineering, architecture and consultancy company founded in Denmark in 1945. Our 17,000 experts work from 300 offices in 35 countries to create sustainable solutions across Buildings, Transport, Energy, Environment & Health, Water, Management Consulting and Architecture & Landscape.

With more than 50 years of experience in the planning, design and implementation of energy solutions, Ramboll is at the forefront of addressing the transition from fossil fuels to renewables. Since 2020, we have worked on 70+ green hydrogen and Power-to-X projects across the whole value chain from renewable energy production to hydrogen electrolysis and synthesis with carbon dioxide or nitrogen. Drawing on our team of experts, we provide best practice advice and guidance throughout all phases of hydrogen and Power-to-X projects from inception to feasibility, design, and operation.



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Stiesdal®
Hydrogen

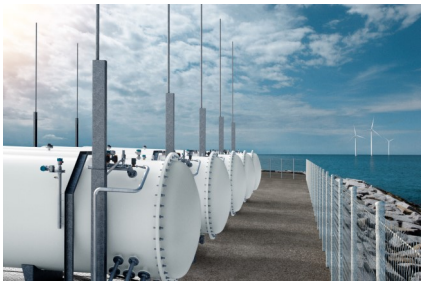
About us

At Stiesdal Hydrogen, we have taken up the challenge to accelerate the development of affordable green hydrogen. Our integrated electrolyzer unit, the HydroGen Electrolyzer, represents an innovative step forward capable of delivering on both cost and volume. Technologically based on classic alkaline electrolysis, the HydroGen Electrolyzer offers unprecedented low cost and fast ramp-up of supplies .

The design is capable of maximizing the economy of scale through industrial manufacturing and is suitable for all relevant large-scale applications, including the supply of hydrogen for ammonia and methanol production.

The company has validated its concepts since 2020. Full-scale test in ongoing and commercialization is planned for 2023.

We are part of Stiesdal A/S, a new and fast-growing climate technology group with activities in floating offshore wind energy, energy storage, Power-to-X hydrogen production and carbon capture and storage combined with green fuel production.



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TOPSOE

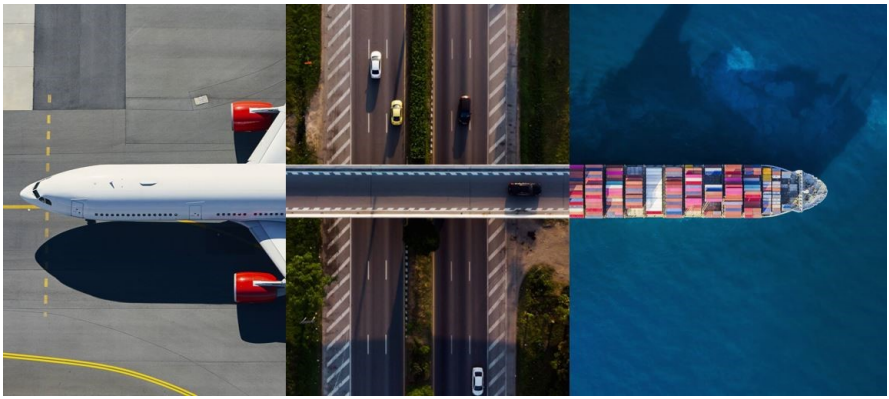
About us

Founded in 1940, Topsoe is a global leader in developing solutions for a decarbonised world, supplying technology, catalysts, and services to speed up the global energy transition.

Topsoe is committed to leading the way, by applying decades of foresight and engineering innovations, to deliver the electrolyser capacity required to meet global Power-to-X and green hydrogen ambitions.

Our commitment and leadership is demonstrated by building the world's biggest and most advanced industrial scale electrolyser production facility, through which we can deploy the SOEC electrolyser capacity needed to support Gigawatt scale green hydrogen projects.

Our mission is to combat climate change by helping our partners and customers achieve their decarbonisation and emission-reduction targets across the hard to abate sectors.



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About us

Umwelt Energy develops industrial-scale eFuel projects that further the green energy transition by helping hard-to-abate industries decarbonize.
Our projects combine renewable power generation, green hydrogen production and eFuels synthesis at integrated facilities, using proven technologies that operate flexibly on-grid or off. The eFuels we produce include green methanol, ammonia and kerosene, with off-takers primarily in the maritime and aviation sectors. In addition to serving as feedstock for eFuels, our green hydrogen can help decarbonize heavy industry and transportation.

We currently have projects in different stages of development in Europe and India, with the Americas as an additional near-term focus market. We have set a global target of 10 GW installed green energy by 2030, which would enable us to produce approximately 2 million metric tons of eMethanol and abate over 4 million metric tons of CO2 annually

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About us

Vestas is the energy industry's global partner on sustainable energy solutions with more than 40 years of experience in wind energy. We design, manufacture, install, and service wind turbines across the globe.

We believe wind will form the backbone of the sustainable energy systems of the future, and we remain focused on developing solutions that accelerate the energy transition and strengthen Vestas' continued leadership in wind.

Vestas is a market leader in the North American wind industry with 42,000 MW installed and 38,000+ MW under service in the U.S. and Canada. Vestas employs more than 6,000 people in the manufacturing, installation, and service of onshore and offshore wind turbines in the region. In 2022, Vestas spent $ 1.6 billion across the USA supply chain with +1,200 suppliers.

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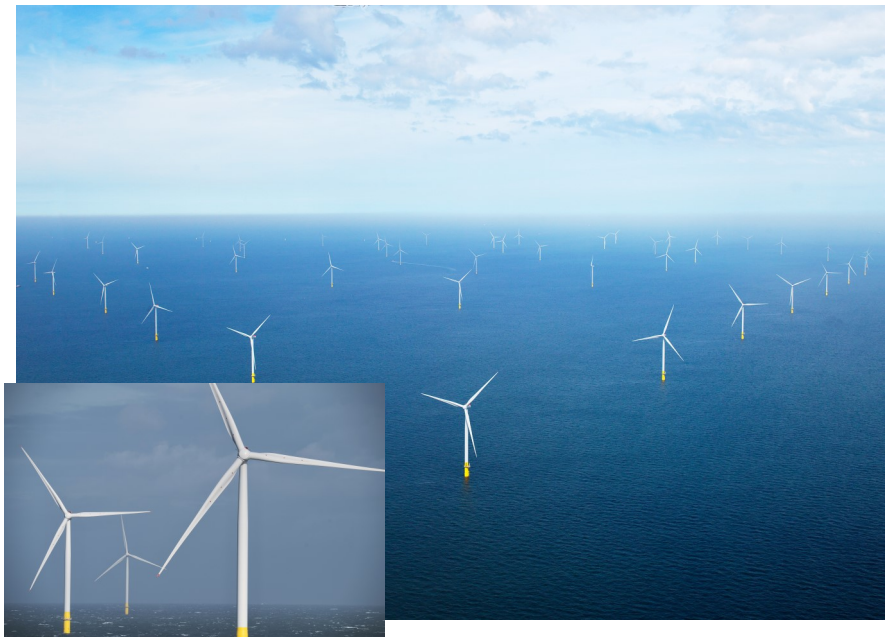
About us

The Ørsted vision is a world that runs entirely on green energy. Ørsted develops, constructs, and operates offshore and onshore wind farms, solar farms, energy storage facilities, renewable hydrogen and green fuels facilities, and bioenergy plants.

Ørsted is recognised on the CDP Climate Change A List as a global leader on climate action and was the first energy company in the world to have its science-based net-zero emissions target validated by the Science Based Targets initiative (SBTi). Headquartered in Denmark, Ørsted employs approx. 8,000 people. Ørsted's shares are listed on Nasdaq Copenhagen (Orsted).



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ØSTERMARK GROUTING

Y-MATTEC

About us

Oestermark Grouting offers on and offshore wind turbine grout installations.

We have developed materials, technical methods, and processes that lay the foundation for flawless execution. We are a certified installer of market-leading grouting material Y-MatTec, which is a part of Oestermark Group.

The focus of Y-MatTec is the development and production of ultra-high performance concrete materials designed for the on and offshore wind industry and related markets.

These materials and methods have enabled us to achieve success around the globe in a wide range of extremes. From temperatures as low as -4°F in Finland, to 104°F in Australia. From tropical climates with severe humidity to installation sites in extremely dry desert locations.

In this industry, world-leading wind turbine companies choose Oestermark Grouting as their preferred partner. A choice based on solid trust and acknowledgement of our 35 years of global experience.

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The Trade Council is a part of the Ministry of Foreign Affairs and assists Danish and international companies with export and investment promotion services. Our export advisers comprise a mixture of local staff with good contacts in local companies and trade organisations as well as posted staff with roots in the Danish business sector.

DANSK
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At the Danish Chamber of Commerce (Dansk Erhverv), we act on behalf of our 18,000 member companies and more than 100 sector associations. We are a private business and employers' association, and we strive to create conditions that will make it attractive to do business in and out of Denmark in a globalized world. Additionally, we seek to ensure development in the growth industries and among start-ups.

DI
Confederation of Danish Industry

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The Confederation of Danish Industry (DI) is a private organization funded, owned and managed entirely by our approx. 20,000 member companies. DI's aim is to ensure the best possible conditions for its members to conduct business, inside Denmark as well as globally.

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DANSK ERHVERV
Danish Chamber of Commerce

Confederation of Danish Industry

Danish Wind & Power-to-X delegation

6 March - 10 March 2023