

**ABP INDUCTION IS PARTNER IN
OFFSHORE PROJECT IN TAIWAN**
COMPONENTS ARE MANUFACTURED ON SITE

HOOD SUPPORT FOR MORE SAFETY
NEW DEVELOPMENT FOR RETROFIT

MAT BENEFITS FROM DIGITAL TOOLS
FAST SUPPORT IN THE PANDEMIC



Introduction

Looking at the cover page of this issue, you will probably have wondered: What does ABP have to do with wind power and offshore plants now? You will find the answer on this page: As partner of YGG in Taiwan we are part of the initiated energy turnaround. With our first order from Taiwan, components for an offshore park on the west coast of Taiwan are produced by using ABP furnaces. Practically all components are produced locally - and so we are part of this sustainable and important project.

Sustainability is a keyword for the second international project: The MAT Foundry Group uses our digital Expert on Demand to fix failures in their own plant themselves under the guidance of ABP experts. This saves resources on the otherwise necessary travel to and from the plant and shortens the downtime enormously - the future has begun!

But: The sudden death of our long-time employee Günter Ulrich has shaken all of us at ABP very much. We pay tribute to his memory on page 8.

*With best regards and
Glück auf!*
Till Schreiter, CEO

ABP establishes itself as offshore partner

YGG chooses large furnaces and myABP digital concept in Taiwan for offshore wind farm

Thrilling energy transition project in Taiwan: The Yeong Guan Group (YGG) based in Taiwan has chosen ABP Induction as its partner to develop a large-scale sustainable project on the west coast of Taiwan. There, Hai Long 2, a 300 megawatt (MW) offshore wind farm, is to be built in the harbor area of the megacity of Taichung, whose components will be manufactured entirely by local stakeholders in Taiwan.

Hai Long 2 is planned to be a regional industrial center of excellence for offshore wind energy technology around Taichung. The idea is to concentrate the competence for development and planning as well as the production of corresponding components locally. This is intended to accelerate the transition to a sustainable energy supply through wind turbine technology for Taiwan and the entire Asia-Pacific region.

5000 sqm area in the port of Changfang

Investors have succeeded in securing a 5,000-square-meter site in Zone 1 of the port adjacent to CIP's Kai Changfang & Xidao Offshore Wind Project specifically for this purpose, which is earmarked for assembly activities for some of the projects. Specific projects are required to have on-site assembly activities. The hub assembly activities include some of the offshore wind components manufactured locally in Taiwan, including hub plates from YGG. In 2019, YGG concluded an agreement for the local production

of hub and base frame castings for this purpose. For this purpose, YGG will build a new global casting production factory for offshore wind turbines in Taichung. This is where YGG will collaborate with ABP Induction. The agreement was concluded in December 2020: ABP will supply two 30-ton furnaces with a 16 MW power supply for the planned induction melting plant, plus a 10-ton furnace with a 6.1 MW power supply.

Timetable: Assembly in September, commissioning in early 2022

Assembly is scheduled for September 2021, with commissioning directly at the beginning of 2022. ABP Induction is contributing its global expertise here - with several divisions from ABP from Europe and the Asian region working together to bring this complex project to fruition. This gives ABP Induction the opportunity to once again demonstrate its expertise in the field of sustainable future technologies for power supply and to also gain a foothold in the Taiwanese market for the first time.

An important criterion for the decision to award the contract to ABP Induction was the company's extensive experience and numerous successful projects in the market segment of large-scale furnaces with high output. However, YGG is also interested in the digital solutions that ABP Induction has developed, in particular the digital Expert on Demand (dEoD). With this tool, ABP experts are always on hand when support is needed



to ensure maximum availability of a system. It allows ABP's support team to see the system through the customer's eyes with augmented reality. dEoD is available extremely quickly, as long waiting times for a service appointment or technician availability are no longer an issue. Added to this is the digital portal myABP, with which ABP Induction is pioneering the digitization of foundry systems. With the integration of the new system components into myABP, ABP Induction can demonstrate how the large-scale plant of YGG can be operated as sustainably and resource-efficiently as possible. myABP serves as a digital information and maintenance assistant for the metalworking industry. The platform

functions independently of location and time: It is designed as an open, manufacturer-neutral system for all processes and machines in a foundry operation.

Sustainable operation of plants with myABP

This is how predictive and preventive services can be offered. It also contains all documents from product descriptions and drawings to maintenance manuals and service reports. If required, the M2M connection can be supplemented by the aforementioned augmented reality support via dEoD and virtual training via the ABP Virtual Academy. Employees on site can be trained virtually in important work

steps and safety-relevant activities in the Academy. The completed training courses can be documented in myABP so that the system operator always has an overview of the expertise network within the company. In this specific case in Taiwan, this can be an important contribution to the planned local competence development in wind farm technology. On the whole, this is an initiative that is extremely focused on sustainable future development, in which ABP Induction is making an important contribution to further promoting renewable energies, thus effectively counteracting climate change and also developing regional competence and knowledge for this important industry of the future.

Fast support for plants in pandemic times

Digital Expert on Demand from ABP Induction supports contactless operations team at MAT Foundry Group in England

The Corona pandemic is a special challenge in all areas of social and economic life. There is industrial production and manufacturing: Measures have to bring a special dimension because of the pandemic. Machines and plants have to be shut down and restarted depending on the conditions, and this requires special control because of the extreme operating conditions. The machines must also be maintained and repaired when the operating staff is reduced or maintenance and service teams may not be available. This is where ABP Induction's digital maintenance and repair service plays an important role: with digital Expert on Demand (EoD), operators of production facilities such as foundries and rolling mills can benefit directly and contactlessly from the know-how of ABP experts and thus keep their own furnaces and machines operational and available. A current practical example is the rapid deployment of EoD at ABP customer MAT Foundry Group. This protected the globally established market leader for safety components in the automotive sector from a long production stop and thus from a costly interruption of operations.

MAT Foundry Group is a global player for industrial and automotive applications and one of the most important manufacturers of safety components for vehicles. This

applies not only to cars in a private or commercial context - more than a third of all vehicles on Europe's roads contain safety components from MAT - but also in industrial and hydraulic applications for mining, power generation or agriculture. All components manufactured by MAT have one thing in common: they must be able to resist great pressure every day and enable safe use even under stress.

Extremely high availability

And that includes MAT's manufacturing facilities. MAT Foundry Group is part of the MAT Holdings Inc. family of companies. The group consists of eight companies with seven foundries and eleven machining and assembly facilities strategically located on the three continents of North America, Europe and Asia. Together, they make up one of the largest automotive parts manufacturers in the world. In order to produce and deliver reliably, all machinery and equipment must be in perfect working order and ensure extremely high availability - after all, MAT's components are part of important supply chains, so MAT is under obligation to many suppliers and customers.

This also applies to times like the current global pandemic situation. MAT wanted to ensure that maintenance and service of the facilities in Poole, UK, would be possible even in quarantine times. At

the Poole plant, MAT manufactures brake discs and offers customers a complete brake disc portfolio in addition to the actual production with packaging, storage and logistics. With the first Europe-wide lockdown regulations, MAT opted for ABP's digital solution for a contactless and quickly available service: digital Expert on Demand. "MAT group is always investing in technology and new ways of improving performance, quality and reducing the carbon footprint. We saw in ABP Digital solutions a great tool kit to achieve that," says Patrick O'Hara, Project Manager at MAT Foundry Group Ltd.

„With digital Expert on Demand, ABP experts and service technicians are always on hand when support is needed to ensure maximum availability of a customer's plant," explains Guilherme Viana, Global Product Manager Digital Solution at ABP Induction. It allows ABP support to see the plant through the customer's eyes with augmented reality. „This means that the technician on site wears smart glasses, uses a smartphone or tablet and on the one hand gets a visual feed of what he has to do, and on the other hand can show the plant and his work on it via the camera function." The expert sits centrally in one of the ABP offices and can give instructions accordingly. EoD is available extremely quickly; long waiting times for a service appointment or technician availability are no longer



an issue. „And thanks to our global presence, the sun never sets in the ABP world – so there is always an employee available digitally for our customers,” explains the digital expert.

Turning data into insights with ABP Intelligence

An important component for support in this context is also the ABP Intelligence module: with it, ABP converts data into insights. With the connection to the device sensors, information is transmitted to the customer’s in-house gateway, where all facts about the operating status are processed. Instructions for action are derived from the analyses and tickets are automatically generated in the event of alarms. Very important: Only then is the forwarding and contact with ABP carried out if necessary – the customer is the master of his data and decides for himself whether and what he wants to make available to ABP

support, when and how. “We started With the Digital Expert on Demand which enables us to open a support request with few clicks and get an engineer from ABP to support us. By using augmented reality technology it is really easy to get clear instructions and exchange information,” Patrick O’Hara says. In the specific case, two extremely system-relevant error messages could be registered at MAT. Due to the quarantine regulations, only a junior team was available in the electronics area at MAT during ongoing operations; ABP service technicians could not enter at short notice due to the quarantine situation. “We were able during an equipment fault to get support from ABP’s global service team and repair the problem within a fraction of the time, without any traveling. Based on our positive experience we are expanding these services across all plants of MAT group,” O’Hara explains. This is where the virtual ABP expert

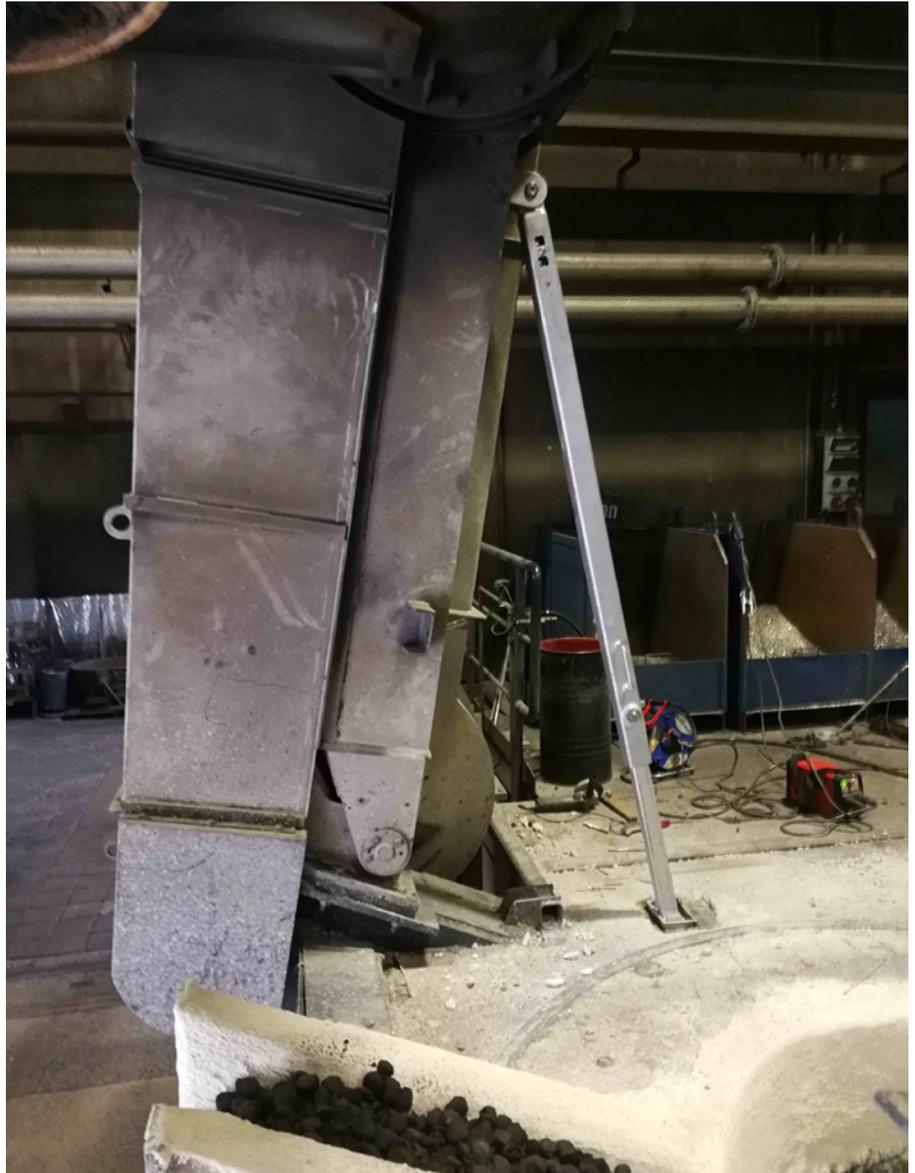
team stepped in: the automated ticket system reported the errors, ABP was given access to the ticket system, and a team of experts from China and India was able to solve the problems at extremely short notice. The ABP experts were able to guide the MAT Junior team on site via Expert on Demand and quickly ensure smooth operation in Poole. „Thanks to our fast response time, the customer was able to operate under regular production conditions again at extremely short notice,” says Guilherme Viana. Even quarantine regulations in pandemic times thus have no impact on the high availability of ABP systems in the customer environment. „With EoD, we are available at short notice and without contact in the customer setting, can instruct maintenance or service calls and ensure smooth production conditions. Production downtimes due to long waiting times for service technicians on site are a thing of the past,” says the expert.

ABP EcoTop® hood support now easy to retrofit

More safety for induction furnace systems thanks to new tool development

The engineers at ABP Induction have developed the new EcoTop® hood support for daily work with ABP induction furnace systems. How can this innovation do valuable work in your operational practice?

If you think about your system operating company, then you surely know: Practice has shown that working under suspended loads must be prevented. Alternatively, you can also secure the hood with a crane, for example. To ensure that this procedure becomes common practice, we have recommended and described the procedure in the „General warning instructions“ and also sent you a warning sign so that it can be visibly attached to the hood. Regrettably, however, this is seldom done in practice. Securing by crane is often described as being too cumbersome or not possible from an operational point of view. With the EcoTop® hood support, we are now providing a sustainable remedy: To resolve operational challenges, we are working with you to increase the level of safety to a new level – with an easy-to-mount support for your EcoTop® hoods. This reliably prevents unintentional closing of the extraction hood.



And this is how the innovation works: The support attached to the main frame of the hood can be easily set up for maintenance or repair work in the area beneath the hood and simply folded back in again when the work is completed. This new safety standard can be quickly incorporated into your

operation: We would be happy to prepare a quotation for retrofitting the support as a turn-key solution. Please contact Lea Schlachzig from ABP Customer Service to arrange a suitable installation date by calling: + 49 (0) 231 / 997 2398 or send an e-mail to lea.schlachzig@abpinduction.com.

We introduce to you: David W. Fong

David W. Fong joined ABP over six months ago and is currently the Digital Product Owner in North America, supporting ABP Digitalization products across Canada, US and Mexico.

David is based out of Toronto, Ontario, Canada. With years of IT background, David was attracted to the various technologies employed in ABP Digital products including Augmented Reality, Virtual Reality, etc. David graduated from University of Toronto with an Electrical Engineer degree and is an active member of Professional Engineers Ontario, a licensing and regulating body for professional engineering in Ontario. David speaks fluent Mandarin and Cantonese and, hence, he has been supporting ABP China with its Digitalization efforts over the last few months. In leisure time, David spends his Saturdays playing Ping-Pong with friends. However, due to the current pandemic, their weekly gathering had stopped. He is looking forward to restarting their weekly ritual soon.



Book classroom training sessions

All training courses and events are bundled on a central platform

In addition to the individual trainings for ABP customers, there are also open seminars and lectures in the new ABP Virtual Academy. For this academy, ABP has created its own booking platform where all available dates are sorted chronologically - and can be booked directly.

On the platform ABP has summarized all relevant trainings, which train activities and work steps on ABP plants and furnaces. These can be virtual trainings, such as the new module „Bridging“, but also lectures (in German, English and French) and sessions in the ABP Virtual Classroom, in which the participants can navigate and act as avatars. All dates are stored in ABP Induction’s new event calendar. There, you can browse through the

dates, pick out topics and dates, and register directly online. The event calendar can be found at www.abp-blog.de/veranstaltungen.



ABP on the road at trade fairs

The current pandemic situation requires that ABP continues to present itself primarily at digital events. Most recently, this was the case at the Hüttentag in Germany and also at the Metal Casting Congress in the USA.

For both events, the ABP team had designed virtual booths to be available for discussions with interested visitors. At the Hüttentag in Germany, ABP was also represented with a presentation by Markus Hagedorn; he spoke about CO₂-neutral steel production in the modern induction furnace. At the Metal Casting Congress, the focus was on digitalization.



Imprint

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Sad news: Günter Ulrich has passed away



Sad news for the ABP family: Günter Ulrich has passed away. With him ABP is losing an outstanding manager, a warm colleague, a valuable person, and a good friend.

Günter worked for our company for almost 40 years. He began his career as a designer for casting equipment at Brown, Bowery & Cie. on May 1st, 1982.

From 1987, the company already merged to ABB, Günter moved as a design engineer to the heating department and at this point also took on the tasks as a project manager. In 1992, he was appointed Group Leader Development and Design and in 2001 he got promoted to Group Leader Sales Support and System Engineering. In this position, which he held until 2020, Günter played a major role in transforming the company from the corporate ABB group to the current structure. With his profound specialist knowledge and experience, he had a significant impact and responsibility in the development and implementation of the world's largest and most powerful melting and heating systems.

After the reorganization of the

global structure last year, he took over as Vice President the technical responsibility for the entire new systems business. In the last few months, he set many positive impulses for the future of our business.

Günter has left behind a great gap. Throughout his entire professional life, he has worked with great passion for "his ABP", for our customers and for his team members and colleagues. For him, his job has always been more than just work and his company more than just an employer.

Due to his warm-hearted, humorous, and open-minded way of dealing with people, he was not only very popular and valued by all colleagues, but also by our customers and partners. Deeply rooted in his home in the Ruhr area, he was a friend of open and honest words. At the same time, he always had an open ear for all colleagues. On many international trips, Günter has also represented our company all over the world and earned a lot of respect there. We will miss him very much. His work and achievements will forever be closely related to our company.