

# Chugoku Marine Paints first to benefit from accelerated process

JAPANESE COATINGS MANUFACTURER CHUGOKU MARINE PAINTS (CMP) CELEBRATED ITS 100TH BIRTHDAY IN 2017 AT THE OFFICIAL OPENING OF ITS BRAND-NEW PLANT: CHUGOKU PAINTS B.V. FOR PRODUCING SOLVENT BASED PAINTS. BUILT TO INNOVATIVE TECHNOLOGICAL SPECS, THE PLANT HAS ALREADY MADE HISTORY IN THE NETHERLANDS. IT WAS THE FIRST TO GO INTO CONSTRUCTION WITHIN 4 WEEKS OF PERMIT SUBMISSION. GIVING A HEAD-START OF AT LEAST 22 WEEKS.



CMP, supplier of marine coatings, has a worldwide network of offices and factories in 30 countries. Besides anti-corrosion and anti-fouling coatings for marine vessels, CMP manufactures protective coatings for bridges, containers and other structures around water, such as the Venice flood gates.

## Smart green plant

The company focuses firmly on the future using the most globally advanced technologies to reduce environmental impact, manufacture long-lasting products and help their clients reduce energy costs and CO<sub>2</sub> reduction. The company decided to upgrade its ageing paint factory in the Netherlands into a smart green plant. Bilfinger Tebodin has held brainstorm sessions and workshops with CMP on opportunities to design a smart green factory and supported on subsidy applications.

## Declaration of intent in an unique collaboration

CMP started construction in 2016 and it was completed in 2017. Bilfinger Tebodin executed the conceptual engineering and provided permitting services which involved building a new factory on unused adjoining the existing factory. The pace of the project was accelerated through a new



MR. UETAKE, CEO OF CMP ABOUT THE GREEN PLANT:

‘CMP’s three key policies are Quality, Innovation and Ecology. These policies all have been aligned in the realization of this new, fully automated factory. This factory is just now born for a new start of our next 100 years.’



'Since the completion of the factory in Q1 2017, over 10,000 m<sup>3</sup> of water is saved, more than 400,000 kWh of energy is generated by solar panels and over 50,000 m<sup>3</sup> of natural gas is saved by using geothermal heating.' Xander Hagenaars, CMP's General Manager Operations

process involving a declaration of intent between the company and the local authority in a pilot in the Netherlands.

Roel Bottenberg, Consultant on Safety and Environmental Management at Bilfinger Tebodin explains: 'The normal throughput time for an extensive permitting process is at least 26 weeks. Under the declaration of intent, we were able to start construction as early as 4 weeks after the application. Giving a head-start of 22 weeks. Chugoku was the first company in the Netherlands to receive this declaration of intent in an unique and a new form of collaboration between companies, consultants and local authorities.'

#### Renewable resources

Xander Hagenaars is CMP's General Manager Operations. 'Obtaining a letter of intent for such a complex process takes enormous effort. Bilfinger Tebodin was the perfect partner for us: they gave proper and professional coordination support with the competent authority and helped us take swift action and responses when needed.'

Given CMP's green vision and focus on energy issues, at an early stage Bilfinger Tebodin and project managers of CMP also drew up a roadmap for the new factory optimizing energy efficiency with maximum use of renewable resources including solar panels and reducing waste heat, water, materials, VOC-emission and waste. ■

## License to operate, the Bilfinger Tebodin way

FOCUS ON CLIENTS' NEEDS AND OBJECTIVES ARE IN THE DNA OF BILFINGER TEBODIN. 'THAT'S WHY, WHEN CLIENTS SET UP A NEW PLANT, WE OFFER MORE THAN A SERVICE TO GET PERMIT APPLICATIONS RIGHT', SAYS AD BROEREN, BUSINESS MANAGER LICENSE TO OPERATE.

'First of all, we have in-house expertise in all relevant fields: acoustics, air and safety, and also fire safety – a different process, but just as important. We know the standards a new plant or modification have to meet, and we know how to present it to the relevant authorities.'

#### Understanding what our clients do

When the consultants of Bilfinger Tebodin foresee that available environmental space and clients' plans won't be a perfect match, they can do more than raise a flag. Broeren: 'We can also participate in finding solutions. That's because of our engineering backbone. Our unique proposition in this market is that we offer a broad scope in both consultancy and engineering of industrial processes. To us, the processes that are our clients' core business are not a black box.'

#### Reducing total cost of ownership

Solutions that can be offered through early involvement can save money in the long run is Ad's opinion. 'Not just because we can prevent costly interventions at a later stage, but also because we can guide the client smoothly through the licensing stage after completing things like site selection, drawing up a master plan, engineering a concept design and so on. Throughout all these stages, we can assess the impact of clients' plans on its surroundings and use that knowledge in the licensing phase.'



Ad Broeren

'And finally, the reality is that even when an application is properly prepared, there may be more hurdles to take, continues Ad. 'We are there for our clients when procedures are complex, with many stakeholders having options to appeal.'