



ENERGY EFFICIENCY PLAN FOR GREENERGY



PHOTO: GREENERGY

Commissioned by Greenergy, a team of energy specialists and consultants from Bilfinger Tebodin conducted an energy saving study to draw up a so-called Energy Efficiency Plan. In this plan, the

energy balance of a site is mapped out and various energy saving measures are investigated for technical applicability and feasibility. The consultancy team in parallel, focused on drawing up

an energy management system. This project is a great example of how the consultancy and engineering teams within Bilfinger Tebodin work together.

“Due to the Covid-19 pandemic, a site visit was not possible,” says Izak Boot, Energy specialist within Bilfinger Tebodin. “Nevertheless, we managed to determine the energy balance in collaboration with Greenergy. As a result, there was frequent contact and a lot of information was shared between both parties, such as the process control system. A 3D scan previously made by Bilfinger Tebodin was also used to view the site and certain details up close digitally since we were not able to be there physically.”

Boot continues: “It soon became apparent that a large part of the heat was consumed in the methanol distillation column, creating an opportunity to carry out a concise process optimization study. In a short time, an advanced simulation model was made in Aspen Plus. This gave insight in various optimization possibilities, which can lead to energy savings of approx. 70,000 euros/year (10% of the total gas consumption), solely by adjusting set points.” Greenergy were looking to optimize their operations, but with these results the points for optimization were determined and



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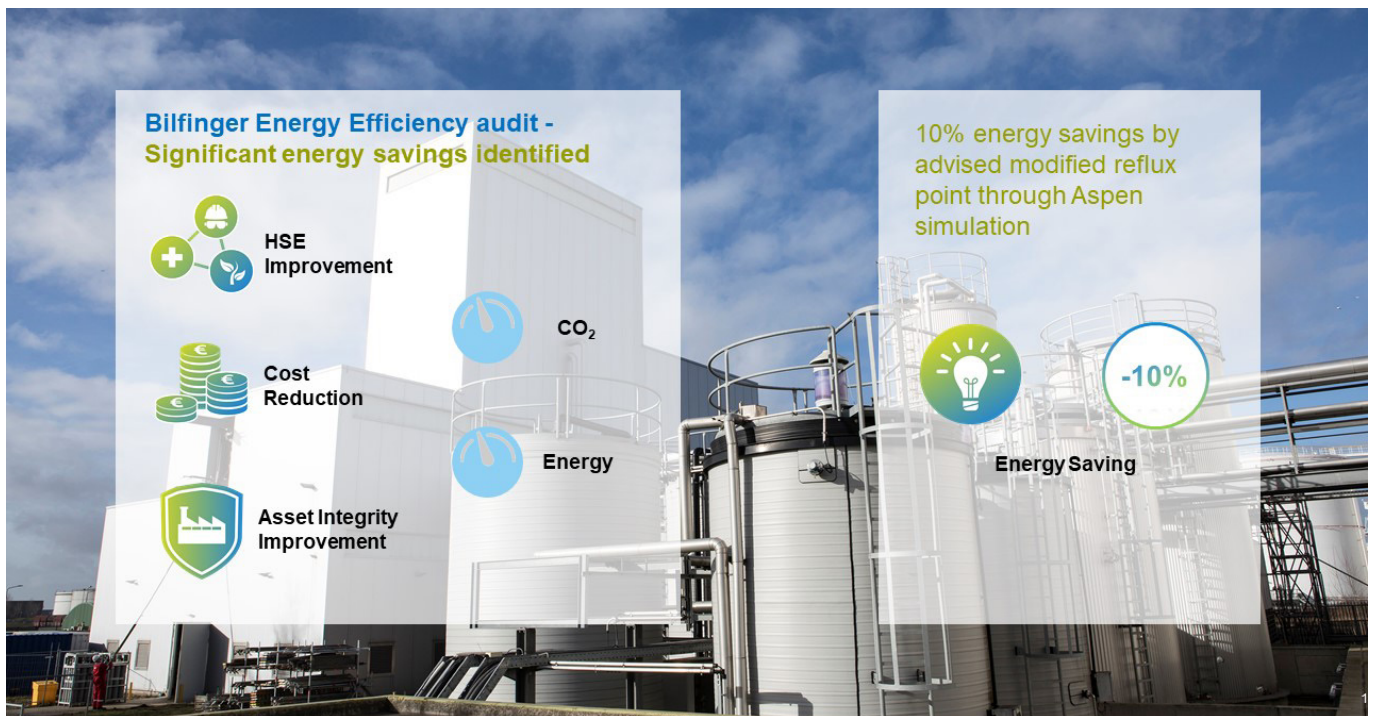
To ensure that energy efficiency is constantly on the agenda and that the requirements of the Environmental permit are met, Bilfinger Tebodin also set up an energy management system. This system ensures that the energy performance, the monitoring thereof, and the securing of possible improvements are included in the processes of the organization.

Mathijs Zugwitz from Greenergy said: “We found Bilfinger Tebodin very efficient and effective, particularly given physical contact was not possible and all communications took place digitally. They were able to work with us and identified several opportunities for us to further optimize our operations.”

EUROPEAN ENERGY EFFICIENCY DIRECTIVE

Firms with more than 250 employees, or an annual turnover exceeding 50 million and an annual balance sheet exceeding 43 million, must carry out an energy audit at least every four years to be compliant with the European Energy Efficiency Directive (EED). The purpose of the energy audit is to increase insight into the company’s energy use and to map the potential energy saving measures. The result of the energy audit is an overview of cost-effective measures to decrease energy use and based on this companies can prepare an action plan to save energy and reduce costs. The municipality or regional environmental service subsequently review this plan of action.

With the result of the Energy Efficiency Plan carried out by Bilfinger Tebodin, Greenergy complies to the European Energy Efficiency Directive for the next four years.



DO I NEED TO BE COMPLIANT?

Are you wondering if your company has to be compliant to the EED? Or are you interested in reducing your energy costs and want our team of experts to conduct an energy saving study?

We are happy to help you.

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