

More than 20% water savings

Banjalučka pivara significantly reduced losses in the system



BANJALUČKA PIVARA
- 1873 -

The Banjalučka brewery was founded in 1873 by monks of the monastery "Marija zvijezda" in order to produce beer for their own purposes. The brewery with this great tradition is well known for their nectar as one of the best in the Balkans. The brewery is medium sized and produces about 500,000 hectoliter/year.

"We chose IBEJ as a partner and Endress+Hauser instrumentation and solutions due to earlier positive experiences and the fact that their offer was technically the most acceptable. Also, the well-known after-sales support of Endress+ Hauser and its partner is fast and adequate. The turnkey project delivered us the precise measurement of all steam parameters. The successful commissioning of the Field Data Manager software for our statistical data processing was a plus."

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Energy monitoring system for a more efficient production process.

The energy consumption in the Banjalučka brewery was a lot higher than the standard in the industry. For years, no investments in the energy sector were made. To optimize the production process, it was a must to also reduce the energy costs.

The results

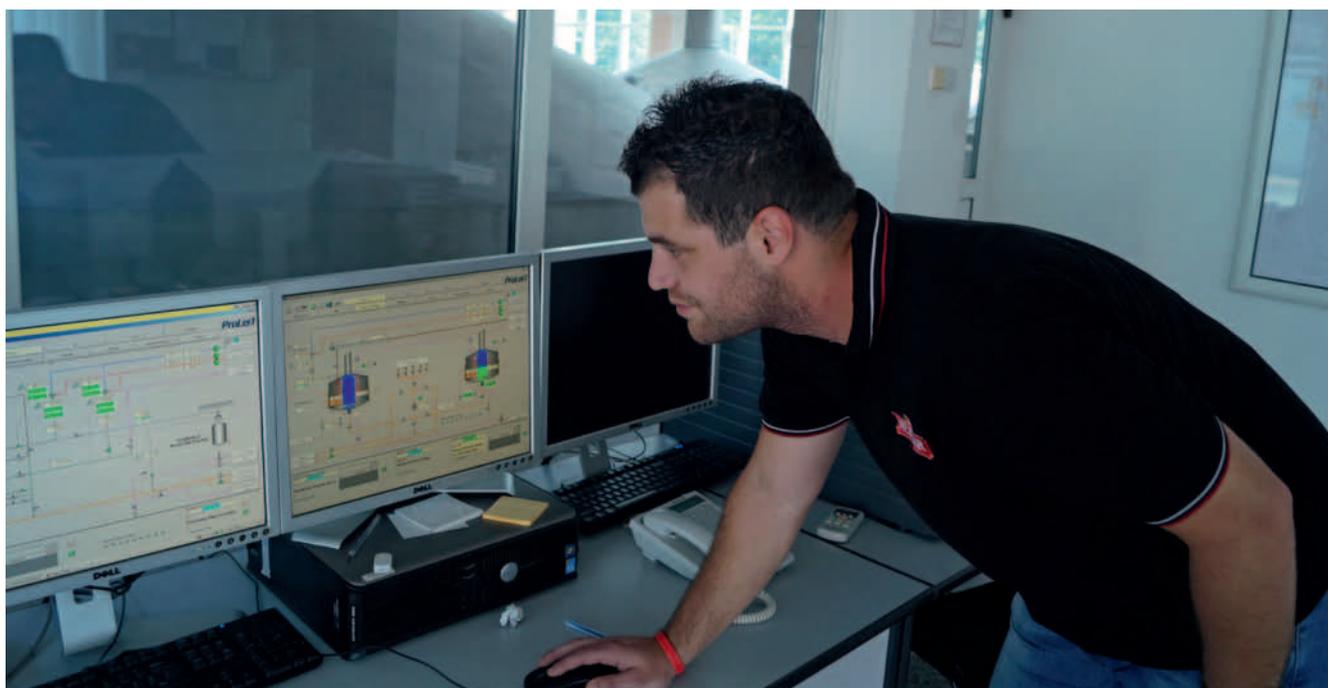
- Reduction of water consumption by 27%
- Reduction of steam consumption by 5%
- Reduction of carbondioxide by 18%

With the new energy monitoring system, Banjalučka is aware of the energy consumption within a process and can identify the biggest consumers easily. Identifications of possible failures on the network (leakage, etc.) and the monitoring of the consumption in real time helps Banjalučka to react quickly to any problems. The improved production process with less individual steps results in less power schemes and less manufacturing defects. 5% of the

water consumption could be saved due to the control of the different suppliers. After 1.5 years, this number increased to 27%. Further they also reduced steam consumption by 5% and CO₂ by 18%. The return-on-investment ROI was reached after 1 year.

Customer challenge The customer demanded measurements for the following media: water, steam, compressed air and CO₂. Furthermore, Banjalučka wanted to see the physical binding of the media and real time measurement and metering data.

Our solution Our representative in Bosnia and Herzegovina, IBEJ, offered instrumentation and energy application managers for an improved energy management. For monitoring of the whole process, a SCADA system was installed, so Banjalučka is able to analyse and process the data of the measurements. Everything is saved and always accessible.



Implementation steps and scope of supply:

1. Defining needs of the buyer, incl. energy site survey
2. Engineering of the monitoring system
3. Installation supervision and commissioning of:
 - Steam flow meters (E+H Prowirl D200)
 - Steam pressure measurements (E+H Cerabar M PMP51)
 - Steam temperature measurements (E+H Omnigrad M TR15)
 - Drinking water flow meters (E+H Promag D400)
 - Boiler feed water flow meters (E+H Promag P100)
 - Boiler feed water temperature measurements (E+H Cerabar M TR10)
 - CO2 flow measurements (E+H t-mass 65F and t-mass A150)
 - Steam and heat computer (E+H RMS621)
 - Paperless recorder, system gateway (E+H Memograph M RSG40)
 - Data acquisition, visualisation and reporting software incl. SQL Database (E+H Field Data Manager MS20)
4. Start-up and site acceptance test (SAT)
5. Customer user training
6. Data review and evaluation support

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