

## **How process automation is making the world more resource and energy efficient – future trends**

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**Key words:** advanced automation, digital technology, decision support

### **Abstract:**

The world is facing major challenges in coping with the supply of food and other necessities to all people, while ensuring a sustainable and environmentally friendly future. To improve industry processes, meet the increasing efficiency, safety and quality demands, new digital technology and advanced automation are the most effective means. With relatively small investments, great effects can be achieved.

Today, the collection of data from the entire plant can be done faster and more accurately, while in the same time it is processed using various algorithms, advanced control systems or cloud services. It provides decision support to operators and predicted maintenance. It enables production planning based on customer orders from raw materials, overall production steps to distribution of the product and model-based control and optimization of not only individually processes, but entire factories or even entire corporations via Collaborative Operation Centers by the supplier's experts around the world 365/24.