

Organization of Monitoring Control Systems in Smart Petrochemical Production

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I believe that today it is impossible to imagine a smart enterprise without monitoring the state of equipment, production facilities, and infrastructure in real time. In this regard, monitoring is proposed, which allows you to respond in a timely manner to changes in the activities of enterprises, prevent failures and accidents, and increase energy and resource efficiency. The smart petrochemical production monitoring system is a software package, equipment, installations, special equipment that allows you to store and process big data, record, predict, adjust processes in real time, thereby increasing the information content, productivity of the system, reducing risks and preventing negative impact on the environment. The formed information base can become the basis for strategic planning and management decision-making. The proposed monitoring system is able to reduce irretrievable losses by 10–30 %. The payback period for the implementation of on-line monitoring for petrochemical enterprises is less than one year.

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