

# World Congress on Industrial Automation

July 20-22, 2015 San Francisco, USA

## A market update on industrial automation equipment and its impact on industrial energy efficiency

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Discrete and process industries are some of the largest segments in the global market for Industrial Automation Equipment. Unfortunately, even after decades of intensive education efforts by automation vendors, many plant operators and manufacturing facility managers continue to disregard the benefits of implementing highly efficient but more expensive products in order to reduce operational costs and decrease the carbon footprint of their facilities. The presentation will highlight the findings of IHS' latest analysis of various product markets, such as electric motors, drives and machinery production. It will summarize how these markets are segmented by product type, geographic region and industry sector and discuss the major trends affecting these markets. Among the topics addressed will be the impact of various regional MEPS (minimum efficiency performance standards) legislations being enacted by governments around the world, and the realistic timetable for transition to higher efficiency industrial systems. The presentation will also include a discussion of the effects that this legislation will have on the purchasing decisions facing Industrial Automation Equipment users, and the clear disconnect between the CAPEX and OPEX considerations that take place during the construction and operational phases of many industrial projects. The presentation will be largely quantitative in manner, and will not contain a significant amount of technical discussion.

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## Industrial application control with fuzzy

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As it knows most of the quotidian problems are not simply to evaluate and considerate formal modeling based in traditional techniques is not the answer. What all industries look is always be better about production and control process that is the reason why the word control is common. The technical development to process control is increasing as faster as industry necessities. The process control makes the evaluation and executions more efficient in the industry. This article was made with the purpose to compare two types of control, one with Fuzzy logic and the second one with PID control. The manuscripts show the advantages and disadvantages of each one, about controlling a temperature plant, in accordance with the functional parameters. The goal of this project is compare what the fuzzy control can do against a PID, which it is a classical control. The comparisons are made with: error, stability, overshoot and response time.

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