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## **Title: Increasing Value in Biogas Production with a unique Automation Concept**

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## ***Abstract***

Modern automation concepts create a solid basis for greater efficiency in biogas installations.

For both plant engineering companies and plant operators, the economic aspects of biogas plants have top priority. By implementing modern control technology, biogas plants can operate more efficiently and reliably. One key criterion in this context is the ability of the automation solution to be optimally adapted to different plant sizes and production techniques. It must also be scalable and flexible to allow for future expansion and modernization. It must enable rapid, straightforward engineering because biogas plants are often built under extreme cost and time pressure. Finally, it must provide all the required functions, including instrumentation and drive technology, safety technology, and energy management, in an integrated solution to minimize space, cost, training and operator time.

The presentation objective is to give an overview about modern automation concepts necessary to fulfil the requirements of various types and sizes of Biogas plants and shows the highlights of different realizations.

## ***Biography***

Volker Hirsch is a graduate engineer from the University of Applied Sciences in Karlsruhe.

As Manager Concepts & Technology he is responsible for Biogas activities in the Siemens Business Unit Industry Automation / Automation System in Karlsruhe, Germany.

Since 2002 he is a TÜV certified Functional Safety Expert, so his further tasks lie in the field of Process Safety.

He works for Siemens since 1991 and has 20 years of experience in process automation (DCS and SIS) for Power Plants and Process Industry, with main focus on Petro and Bulk Chemicals.

Marcos Lacroce Coniaric is a graduate electric engineer from the FEI University Center in São Paulo.

As Industry Developer he is responsible for Siemens automation concepts for Chemical and Biofuels industries in Brazil. He works for Siemens since 2009 and has 10 years of experience in process automation (DCS, SIS, PLC & Scada, Digital Field Protocols) for Process Industry, with main focus on Chemical. He worked for Yokogawa South America for 8 years as system application engineer for automation solutions.

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