

Industry Sector Industry Solutions Division

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With Sicement, Siemens offers integrated solutions for the complete equipment of cement plants

The Siemens Industry Solutions Division has brought its range of products and services for equipping cement works together under the “Sicement” product family. This covers modularly structured, industry-specific solutions for power generation and distribution, drive technology, process control and instrumentation, data management, plant infrastructure and maintenance. Albrecht Neumann, who is responsible for the cement industry at Siemens Industry Solutions, said, “From these modules, we can create the optimal, overall concept for every plant operator, whether for a new construction or for the expansion, modernization or operation of an existing cement works. The results are efficient plant operation, a high degree of reliability, and security of investment.”

Sicement is based on products, systems and services that have already been used successfully in a large number of cement works. Integrating these solutions into a complete package opens up additional possibilities for optimizing plant operation. Neumann added, “We take the entire life cycle of a plant into account, and help operators save money and increase their competitiveness.”

Cement works are energy intensive, and their power generation and distribution systems are sometimes exposed to extreme conditions. While at the same time the loads require an extremely wide range of power supplies. On the basis of standardized medium and low-voltage systems, which have proven themselves in the industrial environment, “Sicement Power” offers individual approaches to providing a reliable, efficient power supply. A decentralized distribution layout increases the availability of system components which, in turn, helps to avoid production outages.

“Sicement Drives” covers drive solutions for kilns, mills, crushers, coolers and fans. Constant-speed, variable-speed and twin drives are available for use as and where required. A complete

conversion to variable-speed drive systems can bring even older systems right up to the state-of-the-art. That results in higher productivity and plant availability.

“Sicement Cemat” is based on the Simatic PCS7 process control system, and contains standardized hardware and software. All relevant plant and process data flow together in the Cemat control system in near real-time. That enables the plant operator to control all processes efficiently, detect any faults at an early stage, and so minimize downtimes. Archived production and process data provide pointers toward modernization measures that could increase efficiency.

Production-specific data for the production planning or management level are provided with the aid of “Sicement IT”. This solution is based on Simatic IT and supplies real-time information about products, quality and process parameters. All interacting components and processes are linked, which contributes toward improving the plant output.

“Sicement Instrumentation” offers a complete portfolio of field devices for the cement industry, including process analysis and instrumentation systems. All devices are fieldbus compatible, and ensure standardized, uniform data communication even between different control systems. The Simatic NET communications network supplies data from the production plant, the production process and the company control center.

“Sicement BoP” (Balance of Plant) includes modules for the plant infrastructure, such as telephone, paging, time recording and camera systems for plant monitoring, as well as access control and fire alarm systems. Cables and cable systems are adapted to suit the conditions in industrial cement works, materials and production processes are continually being improved and further developed. Energy-efficient solutions for building and exterior lighting, emergency and safety lighting are other important components of Sicement BoP.

The product family is rounded off by “Sicement Services”. These maintenance services are oriented toward the plant operator's business processes, and are designed to improve energy efficiency and optimize maintenance processes. Fault rectification on-site and remote monitoring increase the reliability of plant components.

Further information about solutions for the cement industry can be found under:

<http://www.siemens.com/cement>

A photo supplements this press release. Please see:

<http://www.industry.siemens.com/data/presse/pics/IIS200908829.jpg>



The range of products and services for equipping cement works has been brought together on the “Sicement” solution platform. It includes power generation and distribution, drive technology, process control and instrumentation, data management, plant infrastructure and maintenance.

The **Siemens Industry Sector** (Erlangen, Germany) is the world's leading supplier of production, transportation, building and lighting technologies. With integrated automation technologies as well as comprehensive industry-specific solutions, Siemens increases the productivity, efficiency and flexibility of its customers in the fields of industry and infrastructure. The Sector consists of six Divisions: Building Technologies, Drive Technologies, Industry Automation, Industry Solutions, Mobility and Osram. With around 222,000 employees worldwide Siemens Industry posted in fiscal year 2008 a profit of EUR3.86 billion with revenues totaling EUR38 billion. www.siemens.com/industry

With the business activities of Siemens VAI Metals Technologies, (Linz, Austria), Siemens Water Technologies (Warrendale, Pa., U.S.A.), and Industrial Technologies, (Erlangen, Germany), the **Siemens Industry Solutions Division** (Erlangen, Germany) is one of the world's leading solution and service providers for industrial and infrastructure facilities. Using its own products, systems and process technologies, Industry Solutions develops and builds plants for end customers, commissions them and provides support during their entire life cycle. With around 31,000 employees worldwide Siemens Industry Solutions achieved an order intake of EUR 8.415 billion in fiscal year 2008.

Further information and downloads at: <http://www.siemens.com/industry-solutions>