SIEMENS

Background information

Frankfurt/Main, July 4, 2017

ZELLCHEMING-Expo 2017, Hall 4.1, Booth D50

Siemens at the Zellcheming-Expo 2017

- **"Discover the value of the digital enterprise – with Sipaper" as this year's booth motto**
- **New benchmark when it comes to transparency with the Sipaper Drive Performance Analytics MindApp**
- **Current applications from the Sipaper portfolio clearly illustrate digitalization in the fiber industry**

The fiber industry meets at the Zellcheming-Expo from July 4 to July 6, 2017. Zellcheming-Expo is one of the leading European trade fairs for the industry that presents and engages in active dialog with topics relating to the fiber industry. Based on its sector-specific Sipaper portfolio, this year, Siemens is showing current applications relating to digitalization in Hall 4.1, Booth D50. The motto: "Discover the value of the digital enterprise – with Sipaper". In the Zellcheming workshop "Industrie 4.0" Siemens presents digitalization applications in its presentation "Driving the Digital Enterprize in the Fiber Industry with Sipaper".

Digitalization is establishing itself in all process steps in the fiber industry. This extends from power generation and distribution, through the core pulp and paper producing processes – all the way up to service. The overall production landscape becomes more efficient and more favorably priced – processes are made simpler and more transparent. Siemens supports the sector with a well-conceived and integrated overall concept based on proven modular systems and solutions from the Sipaper portfolio – and more specifically, along the complete value-added chain.

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Link to the digital landscape

A highlight at the Zellcheming exhibition booth is a main control room with data link to an electrical cabinet. Here, Siemens personnel demonstrate to exhibition visitors the new Sipaper Drive Performance Analytics MindApp, which can monitor all processes. As member of the MindSphere family, it allows plant operating companies to link their machines to the digital landscape. Intelligent and accessible at any time, the new Sipaper Drive Performance Analytics MindApp evaluates machine data, therefore setting a new benchmark when it comes to transparency in the fiber industry. Energy consumption, productivity, starting times, web breaks and operator actions are continually analyzed without involving any additional configuration and associated costs.

With remote access using the Common Remote Service Platform (CRSP), Sipaper experts demonstrate to visitors real access to an operational paper plant. Several years ago, Siemens established this service for several production facilities. With the Remote Access Service – based on CRSP from Siemens – secure remote connections can be established. Protocols, such as Remote Desktop, can transfer data and continuously monitor various functions – therefore reducing operating and maintenance costs. This also has a significant impact on the key performance indicators (KPIs) such as mean response time or mean time to repair (MTTR), as well as time-intensive services, such as software configuration, troubleshooting and technical support – all important parameters to ensure a high system availability. Remote Access Services also includes conductivity and/or support modules along with remote access modules with optional functions for the industrial environment.

With its Comos database platform, Siemens can facilitate a complete and integrated operating concept along the complete value-added chain.
The Simit simulation software acts as connecting elements between Comos and the Sipaper Distributed Control System (DCS) APL – allowing processes to be simulated in advance. This means that processes can be continually optimized and commissioning work accelerated. Simit is also suitable for training purposes.
Simatic PCS 7 is the basis for the Sipaper APL family. The integrated software solution for model-based process management and control is tailored for the fiber industry. It boosts quality, cost effectiveness and environmental compatibility in production landscapes.

Siemens is taking another large step towards a sustainable future with its Silyzer: The electrolysis system based on proton exchange membrane (PEM) technology is used in industry, especially to store energy. This means that energy generated in production can be used for other applications. The fiber industry uses a huge amount of energy, and this is the optimum approach to effectively use and save valuable resources.

Siemens paves the way to digitalization with its Integrated Drive Systems (IDS): By being able to be seamlessly integrated in every drive system, every automation environment and even over the complete lifecycle, Siemens IDS creates real drive systems, based on simple drive components.
The next generation of Simotics SD motors from Siemens offers a comprehensive digitalization package to address future challenges in drive technology. The new Smart Motor concept allows motor condition data to be simply analyzed in MindSphere – allowing motor data to be accessed from anywhere around the globe.

Based on a model of the SST-600 steam turbine, Siemens demonstrates how steam and also gas turbines can be used as generator or mechanical drive in the fiber industry. Using virtual reality glasses, visitors can view other turbine models – and experience the world of turbines live.

Based on all these applications and over 100 years of experience as a partner to the fiber industry, Siemens supports this sector to handle the challenges posed by digitalization – both today and in the future.

For further information on Siemens at the Zellcheming, please see
www.siemens.com/press/zellcheming-2017

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Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 165 years. The company is active in more than 200 countries, focusing on the areas of electrification, automation and digitalization. One of the world's largest producers of energy-efficient, resource-saving technologies, Siemens is a leading supplier of efficient power generation and power transmission solutions and a pioneer in infrastructure solutions as well as automation, drive and software solutions for industry. The company is also a leading provider of medical imaging equipment – such as computed tomography and magnetic resonance imaging systems – and a leader in laboratory diagnostics as well as clinical IT. In fiscal 2016, which ended on September 30, 2016, Siemens generated revenue of €79.6 billion and net income of €5.6 billion. At the end of September 2016, the company had around 351,000 employees worldwide. Further information is available on the Internet at www.siemens.com.