

ABB empowers world's largest newsprint paper provider to improve energy efficiency

ABB advanced drive system for paper machine helps Huatai Corporation to insure the environmental standards of its paper production line

Beijing, October 19, 2009 -- ABB, the leading power and automation technology group, recently announced its cooperation with Shandong Huatai Corporation, the leading paper company in China, to help significantly reduce the company's energy consumption. The deployment of ABB's advanced technology and equipment will annually save the paper manufacturer about 9.5 million kwh, reduce carbon dioxide emissions by more than 5800 tons, and increase profits by over 5 million RMB.

Tobias Becker, Head of the Process Automation Division, North Asia Region and China, said, "The paper industry is a major energy consumer. ABB's automation technology can help industrial customers tremendously improve energy efficiency so as to achieve environmentally friendly production and sustainable development. Our partnership with Shandong Huatai Corporation, a leader in the global paper industry, demonstrates our mutual trust. Through our joint efforts, we will build a cooperative model of energy efficiency for the paper industry in China."

ABB will deliver its PMC800 control system for use in a high-grade coated paper production line with an annual output of 600,000 tons. As one of the paper industry's most sophisticated drive systems, it comprises 223 driving parts, 241 AC variable frequency motors, and 10 AC800M controllers, providing AC drive and control function for every element of the paper production line including coating machine, super calendar, recoiling machine and winder machine.

Specially developed for paper machinery, the PMC800 control system improves productivity while cutting energy consumption and reducing maintenance costs. The ABB AC variable frequency motors used in the system result in 3.8% greater efficiency than normal AC motors. In addition, the system employs advanced DTC (Direct Torque Control) technology, improving the machinery's control accuracy, thereby minimizing sheet breaks and unplanned shutdowns.

ABB and Huatai Corporation have cooperated on numerous projects in recent years. In 2009, ABB provided a variety of automation products and services, including distributed control systems, quality control systems, drive systems for paper machine, and chemical delivery.

ABB is committed to developing energy efficiency technology for the pulp and paper industry to help its customers improve efficiency and reduce their environmental impact. In 1994, ABB set up the ABB Northeast Asia Pulp and Paper Business Center in Beijing to deliver comprehensive service and support in the region. To date, ABB has provided automation solutions to Huatai Corporation, Tiger Forest & Paper Group, Sun Paper, Nine Dragons Paper and other leading paper companies. In 2008, ABB supplied drive systems for Tiger Forest & Paper Group's fine paper machines with an annual output of 400,000 tons, helping save 5.6 million kwh and reduce carbon dioxide emissions by over 2,000 tons annually.

In addition to advanced products and system for the paper industry, the company introduces its unique Systematic Energy Diagnosis to help customers improve energy efficiency. In 2008, ABB cooperated with the Guangzhou Paper Group, the largest newsprint paper company in the South China, to evaluate the energy efficiency and power management policy at its plants with ABB energy efficiency analysis tools, and help the company to develop and implement its energy efficiency improvement plan. The two parties have identified 18 major power saving opportunities through field assessment of its energy efficiency practices, resulting in a potential annual cost reduction of \$1.3 to 2.7 million.

Press Release



The paper industry is one of the key industries closely monitored by the central government as part of its initiatives to save energy and reduce emissions during the period of the 11th Five Year Plan. More than 60% of total energy consumed by the industry is sourced to motors. In 2007, the COD (Chemical Oxygen Demand) emissions of the paper industry in China accounted for 35.2% of the total COD emissions. Through the proactive use of advanced technology, the industry hopes to decrease the average energy consumption per ton of paper by 20.3% in 2010, and wastewater discharge per ton of paper by two thirds.

Huatai Corporation is a Top 500 company in China, engaged in the paper, chemical, printing, thermal power, forestry, logistics, and trade sectors. It boasts the largest global production base for newsprint paper, with an annual output capacity of over 1.2 million tons, around one third of the total output in China.

ABB (www.abb.com) is a leader in power and automation technologies that enable utility and industry customers to improve their performance while lowering environmental impact. The ABB Group of companies operates in around 100 countries and employs about 120,000 people. ABB has a full range of business activities in China, including R&D, manufacturing, sales and services, with 15,000 employees, 27 joint ventures and wholly owned companies, and an extensive sales and service network across 60 cities.

For help with any technical terms in this release, please go to: www.abb.com/glossary

For more information please contact:

For More Information Contact:

ABB Process Automation

Jing Guan

Marketing Communications

Tel: +86 10 84566688 ext.6317

Mobile: +86 13801194722

jing.guan@cn.abb.com