Afterwards, Chen Chun Fu, president of APP Industrial Paper Division, and vice president Chen Hsing Liang were available to answer questions. Naturally, Chen Chun Fu did not want to give away the secret of the series of records but he admitted that “the production plan is set up very carefully, in order not to slow down the speed. Furthermore, our people find smart solutions.”

However, he also mentioned that the world record set on 3rd June had already been broken on 9th August with a maximum reel speed of 970 m/min. Chen Chun Fu added, “We have already had discussions with Metso in order to run over 1,000 metres per minute.” But so far, the mechanical limitations would only allow for 970 m/min. S. Haase

**New level of automation and process efficiency**

ABB’s award-winning process automation solution for the Hunan Juntai pulp mill in China – the most advanced, most automated and biggest single pulp investment in the country – has taken pulp mill automation and process efficiency to a new level.

Dubbed China’s most advanced and automated paper mill and the biggest single investment in the pulp and paper industry, the Hunan Juntai long-fibre pulp mill in Hunan province has become a showcase project for both China and the global pulp industry. Named one of China’s ten landmark industrial development projects in the current five-year plan (2006 to 2010), Hunan Juntai is the largest integrated forest and paper project in the country and the largest bleached softwood kraft (BSK) pulp line in Asia. Costing some EUR 0.5 billion, the plant went into production last September and is currently producing up to 400,000 t of high-quality pulp a year.

The plant is equipped with a comprehensive mill-wide ABB process automation solution that recently won – along with another ABB solution for a calcined soda plant – the 2008 Science and Technology Achievement Award of the China Instrumentation and Control Society.

Based on the company’s automation platform, Industrial IT System 800xA, the solution controls the manufacturing process of the entire mill and includes quality control systems, advanced optimised control, instrumentation and intelligent motor control centers. With more than 20,000 I/Os (input/outputs) and 46 operator stations, the solution is one of the largest process automation systems ever delivered by ABB in China.

The solution also features the supplier’s patented mill-wide pulp process optimisation system, OPT800, which has significantly reduced energy and chemical consumption and improved productivity by several percentage points in other pulp mills. Hunan Juntai was completed in the remarkably short time of just 17 months, compared to the established industry standard of 27 months for a greenfield site of comparable size.