

Contract based preventive maintenance at Borealis

Borealis is a leading provider of innovative value creating plastics solutions. The production site in Porvoo, Southern Finland, manufactures petrochemical products and polyolefin plastics. General nameplate capacity of all the plants together is approximately 2 million tons per year. The number of personnel is about 850 people.



Plastic plants of Borealis in Porvoo

Long experience in using ABB drives

The plant has used electrical drives of ABB for decades. The first SAMI A frequency converters were installed on the shift of '70s and '80s, though they are already replaced with new ABB drives.

Currently at the Porvoo plant there are more than 200 ABB drives ranging from less than one kilowatt to several megawatt drives.

Scheduled maintenance with ABB Drives service team

Borealis utilizes scheduled production shutdowns in ABB drive maintenance. Most production lines have at least one one-week scheduled maintenance shutdown a year. Annual inspections and component replacements of ABB drives are planned and performed during these production shutdowns according to product-specific maintenance schedules. In addition to planned maintenance, ABB's lifecycle plans of drives help define the time when a drive should be modernized or replaced with a new drive.

Maintenance agreement

ABB and Borealis concluded a contract in 2002 on preventive maintenance of all ABB drives at the plant. The objective is to maintain high drive reliability and optimized lifecycle costs as well as to guarantee fast spare part and repair work deliveries. The contract also contributes

to optimization of plant maintenance resources and availability of ABB service engineers. When Borealis purchases new ABB drives, they are included into the contract and serviced accordingly.



"The amount of unplanned production shutdowns has been reduced significantly due to applying preventive maintenance of drives according to the maintenance schedules. Thanks to maintenance programs budgeting became much easier", says Jari Väällä, maintenance manager of the plant's Electrical & Instrumentation department. "Preventive maintenance has cut the amount of night alarm calls in half. That gives the best feelings."

Satisfied customer

Porvoo plant of Borealis Polymers is satisfied with the collaboration with ABB. Preventive maintenance is performed according to the maintenance schedules. Mutual work is developing further based on the maintenance contract.

Product Lifecycle Services

- Installation & Commissioning
- Training
- Support & Remote Services
- Spare Parts & Repairs
- Maintenance & Field Services
- Migration & Retrofits
- Optimization





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Case notes



ABB Oy
Product Support
PO Box 116
FI-00381 Helsinki, Finland
Tel: +358 10 2211
Fax: +358 10 222 6800
www.abb.com/drives
e-mail: sales.productsupport@fi.abb.com