

# Aluminium Industry Projects Execution Center

## ABB provides you peace of mind for all your turnkey electrification projects

Aluminium smelters require huge amounts of electrical energy. Optimized power conversion systems and well-engineered power utility interfaces are essential for maximum energy efficiencies and power quality. Electrical energy accounts for 30 to 40 percent of the overall aluminium production costs.



Count on ABB's experts to help you increase energy efficiencies while reducing environmental impact.

ABB's know-how, rigorous engineering practices and simulation software help reduce overall capital investment and aluminium production energy costs without compromising power quality. Whether you need a single product or a comprehensive electrification package, look to ABB as your single source.

### Our offerings

ABB's Aluminium Industry Projects Execution Center offers turnkey solutions from civil and electrical design to construction, installation and commissioning to long-term support and services.

Our team has acquired extensive experience modernizing existing plants to the latest standards, production and efficiency levels while it is still in operation.

ABB is committed to building and strengthening long-term relationships with its business partners, while maintaining the highest standards of environment, health and safety.

### ABB's core competencies

- Excellence in executing turnkey projects: from civil and electrical design to construction, installation and commissioning to long-term support
- Expertise in modernizing and upgrading critical equipment while maintaining production
- Meeting Smelter technology specifications
- Enhancing energy efficiencies and environmental performance
- Providing 24/7 service support to bring you peace of mind
- Expertise in power quality harmonic filter solutions
- Experience in leading successful negotiations with utilities to secure power quality requirements
- Offering a full range of conditioning, sensing and remote monitoring applications, using the latest automation and control technologies
- Conducting studies and making recommendations on major substation components
- Conducting studies on Transient Recovery Voltage (TRV) and Dynamic Switching Studies (DSS)



3BCA012045R0001/October 2013

ABB is delivering power and automation solutions, total engineering capabilities along with long-term support to Aluminerie Alouette's smelter in Quebec.

For more information please contact:

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