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Baku Steel Company Achieves Significant Improvements with EAF Upgrade from Primetals Technologies

- **Upgrade project generates outstanding electrical energy and electrode consumption savings**
- **Remarkable 4-minute reduction in power-on times**

Primetals Technologies has recently received the final acceptance certificate (FAC) for an upgrade of the 60-ton electric arc furnace (EAF) at a facility operated by the Baku Steel Company CJSC group (BSC) located in Baku, Azerbaijan. This project marks a major step forward in optimizing production processes and enhancing operational efficiency.

The Primetals Technologies scope of supply included a burner system with carbon injection technology, the Melt Expert electrode control system, SlagMon tapping equipment for optimized slag detection, as well as advisory services for installation and commissioning.

Remarkable Decrease in Consumption

In 2023, an initial study conducted by experts from Primetals Technologies identified substantial potential improvements through the addition of a fourth refining combined burner (RCB) and a modern electrode control system in the steel producer's EAF. Building on this feedback, BSC and Primetals Technologies have successfully implemented the upgrade.

Following the successful installation and integration of Primetals Technologies' state-of-the-art systems, BSC reported impressive results within just a few days of operation. Key improvements include a significant reduction in electrode consumption by more than 20 percent, a substantial decrease in energy consumption, as well as a notable 4-minute reduction in power-on times. These outcomes demonstrate the immediate impact of the upgrade on the efficiency and performance of the steelmaking process.

Increased Process Stability

Melt Expert from Primetals Technologies enables dynamic control over the melting process and increases process stability. The system improves furnace productivity by addressing reduced throughput and efficiency, common issues in steelmaking operations. It also lowers energy consumption, helping to mitigate the high energy costs associated with the melting process.

Ships to More Than 20 Countries

With an annual production capacity of 800,000 tons, BSC is the largest steel production enterprise in the Caucasus region. The company manufactures billets, pipes, and construction rebars from carbon and alloy steel, as well as standard and shaped rolled products including channels, angles, I-beams, wire rod,

and shaped casts. BSC exports its products to more than 20 countries across Europe, the US, Africa, and Asia.



BSC achieves substantial improvements after an EAF upgrade by Primetals Technologies.

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Primetals Technologies, Limited, headquartered in London, United Kingdom, is a pioneer and world leader in the fields of engineering, plant building, and the provision of lifecycle services for the metals industry. The company offers a complete technology, product, and services portfolio that includes integrated electrics and automation, digitalization, and environmental solutions. This covers every step of the iron and steel production chain—from the raw materials to the finished product—and includes the latest rolling solutions for the nonferrous metals sector. Primetals Technologies is a Group Company of Mitsubishi Heavy Industries, with around 7,000 employees worldwide. To learn more about Primetals Technologies, visit the company website [primetals.com](https://www.primetals.com).

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