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Developments of monitoring of Billets quality through modelling and new sensors in the frame of Sunshine project

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The quality of the products in bar and wire rods production is strongly affected by the quality results in Continuous Casting both for conventional and special steels.

In different ways Feralpi Groups is working to improve the billets quality in terms of surface, internal and shape defects also with activities included in the R&D projects coupling new equipments, new sensors, studies and data analysis.

In particular Starting since 2024 the project sunshine is active CoFinanced by RFCS (Research Fund For Coal and Steel) devoted to application of mathematical modelling of the solidification coupled with new sensor for billets conditions measurement and data analysis to be able to evaluate the eventual causes of events of quality variation.

Thanks to this approach Feralpi Siderurgica is now adopting new measurement systems to alert in case of abnormal billets conditions also devoted to the subsequent stage of rolling in case of action necessary.

Furthermore the studies and new applications in the frame of the project are used to gain know how for the process technologist and for the technical departments also thanks to the collaboration with new partners and technology providers.

In this way the systems applied aim to cover both the present and the future necessities and quality constrains.

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