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SSAB Fossil Free Steel Production Conversion

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The transition to fossil free steel production at SSAB marks a transformative step towards sustainability in the global steel industry. This presentation outlines the background and motivation behind SSAB's transition, focusing on the need to reduce carbon emissions and align with climate goals. Key technical changes are discussed, including the implementation of the HYBRIT (Hydrogen Breakthrough Ironmaking Technology) process, which replaces coal-based blast furnaces with hydrogen-based direct reduction of iron ore. Additionally, the transformation of Nordic strip production to a minimill-based approach is highlighted as a crucial element in the transition. The presentation examines the impact of these innovations on steel manufacturing processes, operational efficiency, and environmental performance. It also assesses how this transformation enhances customer value by offering fossil free steel.

Speaker Country

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