

Turbocharged Transistors

16/06/2025 How silicon carbide is shifting into next gear.

From electric vehicles to renewable energy systems, silicon carbide (SiC) is rapidly becoming a cornerstone of efficient, high-performance power electronics. Offering better switching capabilities, higher thermal tolerance, and greater energy efficiency than traditional silicon, SiC is critical for sustainable innovation in electrification. However, cost pressures, geopolitical tensions, and challenges in industrialization and ramp-up still pose barriers to broad adoption.

This strategy paper – developed by Porsche Consulting in collaboration with Entegris – explores how industry players can overcome these challenges through advanced technologies, strategic partnerships, and digital transformation.

Read the strategy paper in full length: Turbocharged Transistors

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Jan Boris Wintzenburg

Director Communications and Marketing
Porsche Consulting GmbH
+49 (0) 152 3911 8663
jan_boris.wintzenburg@porsche-consulting.com

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