FutureBridge

INDUSTRY INSIDER MOBILITY

DIVE INTO THE REALM OF LOW-VOLTAGE ELECTRIFICATION





Whv 48V?

Limited cost and simple integration drive the implementation of 48V systems by automobile players, primarily those operating in mass-volume segments, where the scale effect is high.

Large-scale implementation of these systems can deliver double-digit fuel

Expected CO₂ Limits (in g/km) EUROPE CHINA 2020 2020 2025 117g 105g **95g** 2025 AN 2020 S JAF

savings; benefits at global level might have favorable reception.



105g

Leading automotive brands are implementing 48V systems...

Aston Martin	FCA	Kia	SAIC-GM
Audi	Ferrari	Mahindra & Mahindra	SsangYong
Bentley	Ford	Mazda	Skoda
BMW	Geely	Mercedes-Benz	Tata Motors
Buick	General Motors	Mitsubishi Motors	Volkswagen
Cadillac	Honda	Porsche	Volvo
Chang'an Motors	Hyundai	PSA	
FAW	Jaguar Land Rover	Renault	

...among them, FCA is planning to deploy 48V in various vehicle segments (small, compact, and large)



Mild hybrid 1st application plans in various brands of FCA with the type of method used

EV SYSTEMS	FIRST APPLICATION SHOWN						
48V	2017	2018	2019	2020	2021	2022	
P1F 12V BSG FWD					(III) 500)	
P2 48V FWD/RWD						RENEGADE	
P0 48V BSG RWD/4WD				🗑 RAM	1500		

Target vehicle segments for 48V mild hybrid along with the type of method used

EV SYSTEMS	SMALL	COMPA	CT / MID	LARGE
48V (Two Type of Methods)	P2 48V FWD/RWD			
			P0 48V BSG RWD/4WD	

Mild hybrid implementation rate in different geographies

FCA's 2022 projected adoption of different technologies by sales region



Across the 48V building blocks, key automotive suppliers like Continental, Valeo, and Bosch dominate the supply chain.







To uncover strategic opportunities triggered by 48V systems, subscribe to Mobility Industry Insider