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The DNA of tech.®

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Vishay - The DNA of tech.®

**Presentation to SMMT Regional Forum Wales 2026
ICC Wales, Newport**

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WE MANUFACTURE ONE OF THE WORLD'S LARGEST PORTFOLIOS

of discrete semiconductors and
passive electronic components



VISHAY BY THE NUMBERS

The DNA of tech.[®] | AT A GLANCE

60+
YEARS

of technological
leadership in the
components industry

\$2.6B

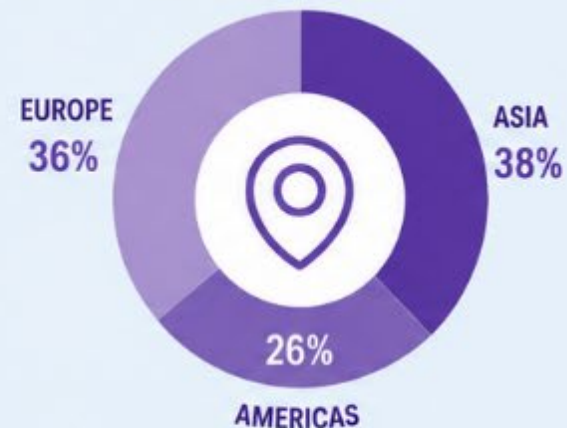
investment in
capacity expansion
over the next 4 years



VISHAY IS CLOSE BY

Manufacturing hubs in every
region with the ability to scale

REVENUE BY REGION



REVENUE BY END MARKET

36% INDUSTRIAL



36% AUTOMOTIVE



11% AEROSPACE / DEFENSE



The DNA of tech.[®]

We are proud to be the go-to manufacturer for engineers to innovate with ease and confidence knowing that **The DNA of tech®** is behind them all the way.



FROM DISCRETE SEMICONDUCTORS TO PASSIVE COMPONENTS



FROM THE LOWEST VOLTAGE DIODES TO THE HIGHEST ENERGY CAPACITORS



In power applications
we can supply

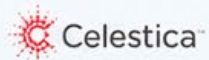
~80%
of your bill
of materials.

TRUSTED BY OUR CUSTOMERS



EMS

FOXCONN®



JABIL

flex.

PLEXUS

DISTRIBUTION

ANALOG



AVNET



RYODEN



The DNA of tech.®

NEWPORT WAFER FAB

Building the UK's
Semiconductor Future



This significant investment in compound semiconductors is a huge contribution to the innovation and advanced technology necessary to drive the future of UK Automotive.

Mike Hawes

SMMT Chief Executive



500

HIGH-VALUE JOBS



AUTOMOTIVE
CRITICAL SUPPLY



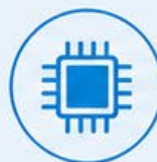
CLEAN ENERGY
NET ZERO



DEFENCE
STRATEGIC CAPABILITY

£250m

GOVERNMENT-BACKED INVESTMENT



UK'S LARGEST
SEMICONDUCTOR FAB



75%
OF OUTPUT SUPPORTING
AUTOMOTIVE APPLICATIONS



28 ACRES
EXPANSION-READY SITE



The DNA of tech.®



COMPOUND SEMICONDUCTORS ENABLE THE ELECTRIFICATION TRANSFORMATION



Silicon dominated the power semiconductor industry for over **40** years.



Compound semiconductors are the future of as they enable far better energy conversion and thermal performance.



Using Silicon Carbide in an EV's inverter can increase range by up to **10%**.



SiC can also help get drivers back on the road more quickly. An efficient transition to higher bus voltage (**800V** instead of **400V**), enables faster EV charging times.

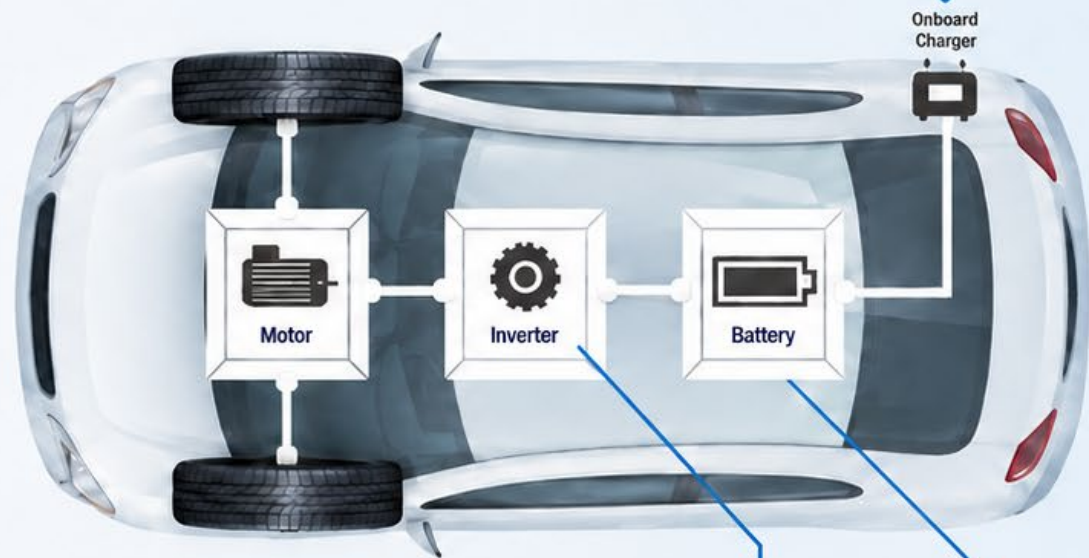


Recently, researchers at **North Carolina State University** employed SiC in an EV charger that is **10 times smaller** and **60%** more efficient.



ON BOARD CHARGER

Converts AC / DC external power to charge the battery
Compound semiconductors enable faster charging times



TRACTION INVERTER

Converts DC supply from the battery to AC driving the motor
Compound semiconductors enable longer driving distance

A FEW EXAMPLES OF HOW WE SUPPORT THE AUTOMOTIVE ELECTRIFICATION AND NET ZERO TRANSITION SUPPLY CHAINS



The DNA of tech.®



FULL ELECTRIC VEHICLES – MOTOR DRIVES

- High voltage capabilities
- Transient protection
- Pulse proof
- High power



ELECTRONIC POWER STEERING (EPS)

- High current handling
- Excellent EMI filtering
- High power B6 MOSFET modules



BMS – BATTERY MANAGEMENT SYSTEMS

- Very good performance
- High transient resistivity
- Ultra high stability
- Long life



ADVANCED INTELLIGENT LED HEADLIGHTS

- High switching frequency
- Low profile and high power
- High temperature performance



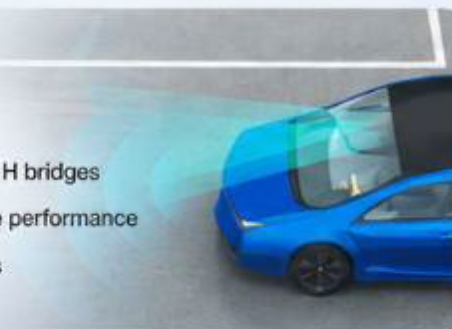
INVERTERS AND CONVERTERS IN ELECTRIC CARS

- Customized transformers and filters
- Superior switching performance
- Flexible design modifications



SMART BRAKING – ESP + EPB

- Low profile dual package for H bridges
- High transient and avalanche performance
- High operating temperatures



THANKS

TO THOSE WHO SUPPORTED OUR EXPANSION PLANS



Mercedes-Benz



The DNA of tech.®

THE SILICON VALLEYS

Newport hosts the UK's
largest Semiconductor Factory



A secure supply of
world class chips
made in Wales



Home to the world's first
compound semiconductor cluster
with Vishay at its core



£250M invested in
cutting edge Silicon Carbide



Fully automotive certified and
audited by major OEMs / Tier 1s



Far more efficient chips
than traditional Silicon



Powering EVs, Wind Turbines
and Data Centres worldwide



Driving net zero, electrification
and grid modernisation



Enabled by innovative
university research



Supporting jobs and growing skills
from classroom to career



The DNA of tech.®



500

HIGH-VALUE JOBS



AUTOMOTIVE
CRITICAL SUPPLY



CLEAN ENERGY
NET ZERO



DEFENCE
STRATEGIC CAPABILITY

Scan to give your feedback

Thank you for attending

