UNLOCKING A NEW ERA OF ENERGY EFFICIENCY
Wolfspeed is leading a technology shift that is transforming entire industries by powering more and consuming less. Our products enable customers to deliver solutions that significantly reduce greenhouse gas emissions by displacing fossil fuel usage in transportation and energy generation and storage. Our solutions are key to the electrification of the drivetrain, to support the shift to electric vehicles, wireless infrastructure to unlock the potential of smart cities, and power storage to enable broader adoption of alternative energy.

WOLFSPEED AT A GLANCE
- Headquarters: Durham, North Carolina
- Founded: NC State, 1987
- Global Footprint: 17 Countries
- Website: www.wolfspeed.com
- Stock Symbol: WOLF (NYSE)
- People: ~3,500 Employees
- History: 30+ years of technology leadership
- Revenue: $525.6M in FY2021
- Experience: Power devices with 7+ trillion field hours
- Innovation: More than ~2,100 patents granted in last 30 years

HARNESSING THE POWER OF SILICON CARBIDE
Wolfspeed develops and manufactures Silicon Carbide, a semiconductor base material made from pure silicon and pure carbon, for power and radio frequency applications. While there is a great deal of complexity and intellectual property in our designs and solutions, what we enable our customers to do is simple—we make systems more efficient while reducing cost and increasing performance.

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We take risks and challenge conventional thinking to develop better, more efficient, and cleaner technology for a world that depends on it.

SILICON CARBIDE 101
- A powerful semiconductor containing silicon and carbon
- Smaller, lighter, and capable of running at higher temperatures with less power and heat loss than incumbent silicon-based semiconductors

ADVANTAGES OF SILICON CARBIDE OVER SILICON:
- Higher efficiency
- Faster switching
- Improved thermal performance
- Higher reliability
- Lower system costs

Silicon Carbide is perfectly suited to high-power applications where high current, high temperatures, and high thermal conductivity are required.
THE WOLFSPEED DIFFERENCE

Singular Focus
- Global market-leading position in Silicon Carbide materials and wafers
- Team and investment solely focused on Silicon Carbide
- Robust product portfolio with industry leading field hours
- Unsurpassed reputation of developing Silicon Carbide solutions

Industry and Domain Expertise
- 30+ years of intellectual property and expertise in Silicon Carbide technology
- Leadership team with 150 combined years of semiconductor experience
- Materials Crystal Growth team with 400 combined years of Silicon Carbide experience
- Sales team with 1,000 combined years of semiconductor experience
- Unsurpassed intellectual property portfolio with foundational Silicon Carbide patents
- Vertically integrated supplier
- Control every step in the creation of our materials and devices
- Optimize the performance and reliability of our products through rapid learning cycles

Financial Strength
- Device opportunity pipeline at more than $15 billion
- Materials long-term agreements worth ~$1.3 billion
- Secured approximately $2.9 billion of design-ins in fiscal 2021, representing more than 1,100 customer projects across a broad range of applications
- Target tripling revenue by FY2024 to ~$1.5 billion

Capacity Expansion
- Expanding capacity to address steepening demand in the power and RF markets
- Investing more than ~$1 billion to support a significant increase in fabrication and production capacity
- Bringing the world’s largest Silicon Carbide fabrication facility online by early 2022 in New York’s Mohawk Valley
- Completing mega materials factory expansion at our Durham headquarters that will result in a 30-fold increase in Silicon Carbide materials production

PRODUCTS

MATERIALS
- N-Type
- HPSI
- Silicon Carbide
- Nitride Epitaxy

POWER PRODUCTS
- Schottky Diodes
- MOSFETs
- Power Modules
- Bare Die

RF PRODUCTS
- MMICs
- HEMTs

PRODUCT APPLICATIONS

AEROSPACE & DEFENSE:
Our GaN and Silicon Carbide components enable radar and communications systems to reach farther, perform longer, and consume less even under the harshest conditions.

AUTOMOTIVE:
Our wide bandgap Silicon Carbide devices deliver high-voltage, high-current, and high-temperature components that enable faster, more efficient charging and increase the range of electric vehicles (EVs).

COMMUNICATION INFRASTRUCTURE:
Our GaN-on-Silicon Carbide technology solutions help meet the world’s connectivity needs by expanding existing 4G system capabilities and enabling the next generation of 5G networks.

INDUSTRIAL:
Our Silicon Carbide semiconductors and expertise give power systems designers the ability to upgrade almost any industrial power supply while reducing the amount of energy consumed.

ENERGY STORAGE:
Our Silicon Carbide MOSFETs and diodes offer higher performance and lower losses for energy storage systems compared with traditional silicon while allowing engineers to create systems that use fewer components.

RENEWABLE ENERGY:
Wind, solar, hydropower, geothermal, and bioenergy sources designed around our Silicon Carbide solutions offer efficiency gains and permit smaller system size, weight, and cost—increasing solar energy adoption.

MATERIAL APPLICATIONS:
We are a fully-integrated materials supplier with the largest and most diverse product portfolio serving our global customer base across a broad range of applications.

LET’S REIMAGINE A MORE SUSTAINABLE WORLD. TOGETHER.

FOR ALL INQUIRIES:
Visit: www.wolfspeed.com
Call: 800-533-2583

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