

Electrify Our World[™]

How the Si to GaN/SiC Transition Accelerates Our Journey From Fossil Fuels



Navitas Electrify Our World™

Navitas/

GàNFast

Power IC

Navitas

nesic

Dr. Xiucheng Huang Sr. Director, Applications Engineering Guangzhou, November 2023

ir@navitassemi.com Copyright Navitas Semiconductor, 2023

Thank You / 谢谢

- On behalf of the Power Sources manufacturers' Association (PSMA)
- Thank you to the China Power Supply Society
- For the opportunity to present at this year's CPSSC
- We wish our long partnership to continue





PSMA Mission, Committees, Conferences

• To integrate power industry resources to profitably serve the needs of users, producers, industry stakeholders and all PSMA members.



Copyright Navitas Semiconductor, 2023

Navitas

Electrify Our World[™]

How the Si to GaN/SiC Transition Accelerates Our Journey From Fossil Fuels

Navitas Electrify Our World™



Acceleration, Revolution



Technologies





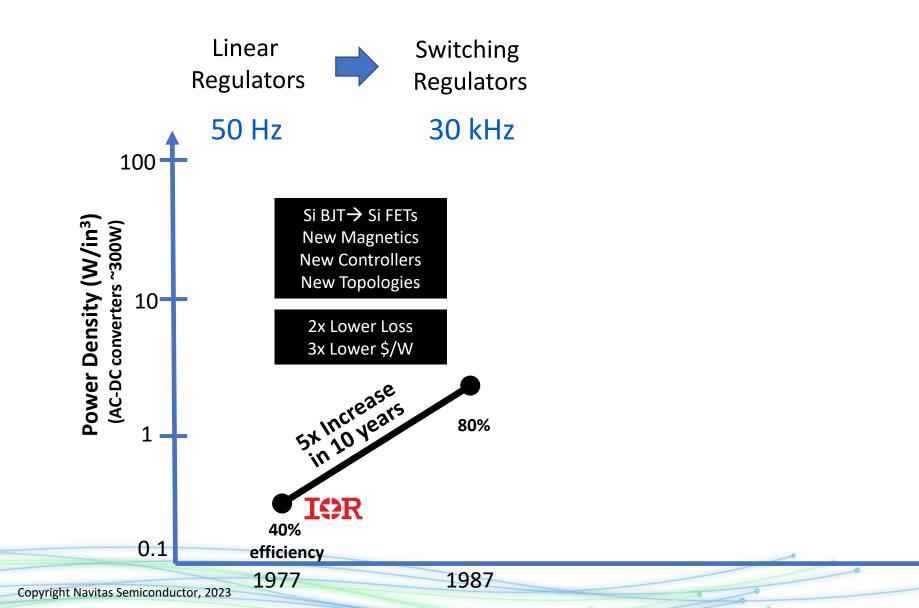




Products





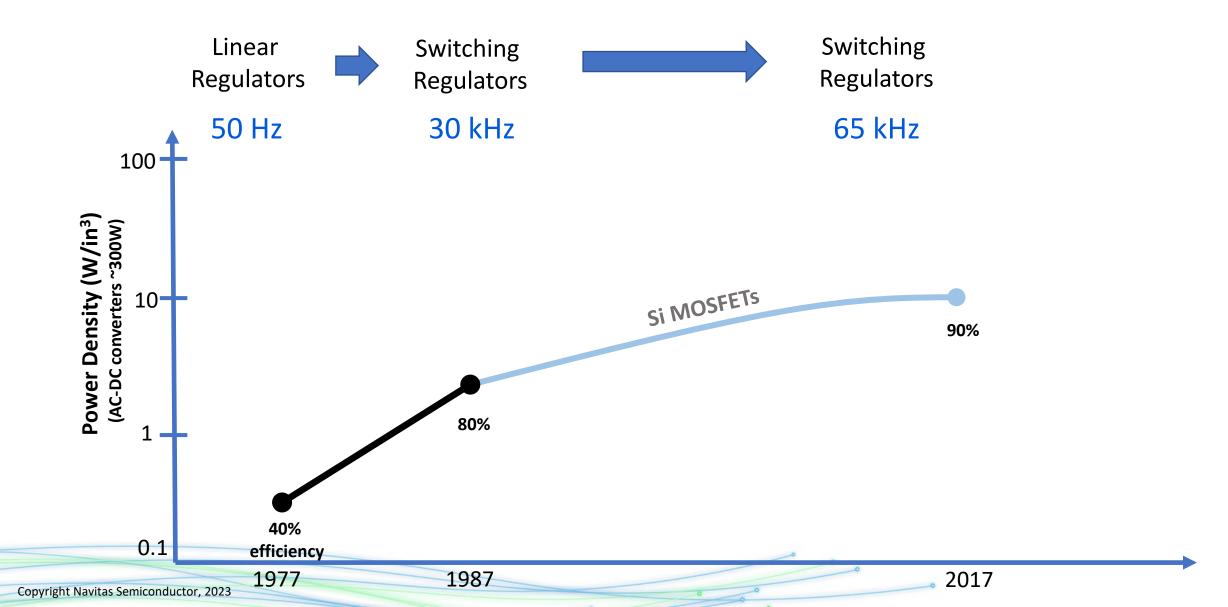


Navitas

Years of Consolidation

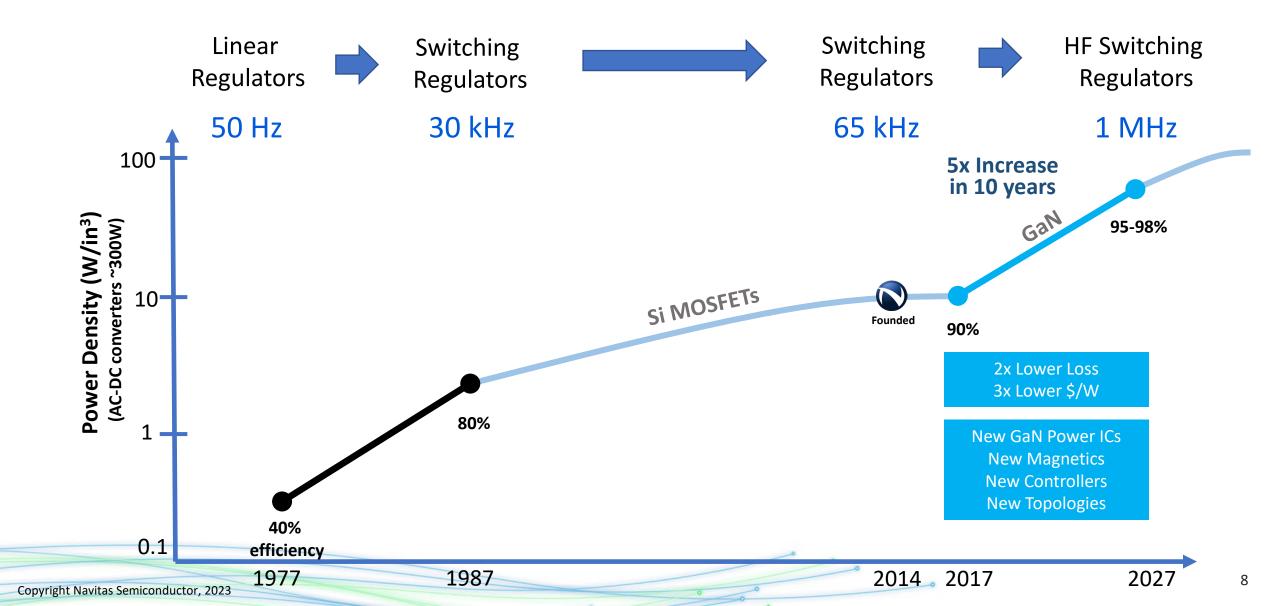


7



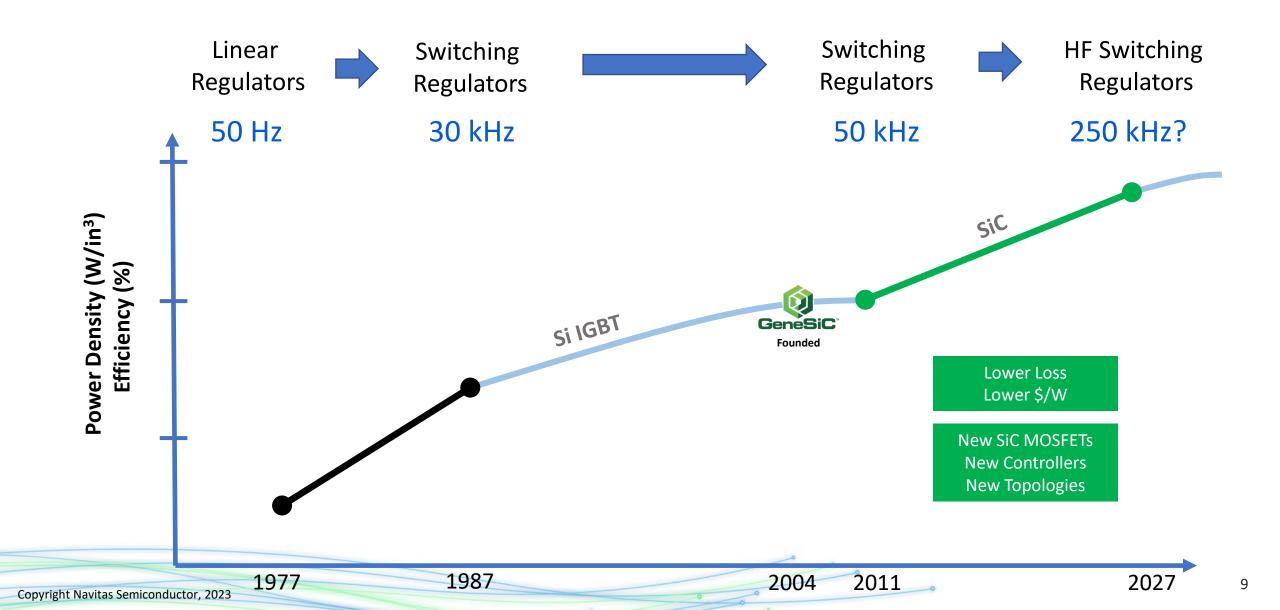
Second Power Revolution (Si MOSFET → GaN)





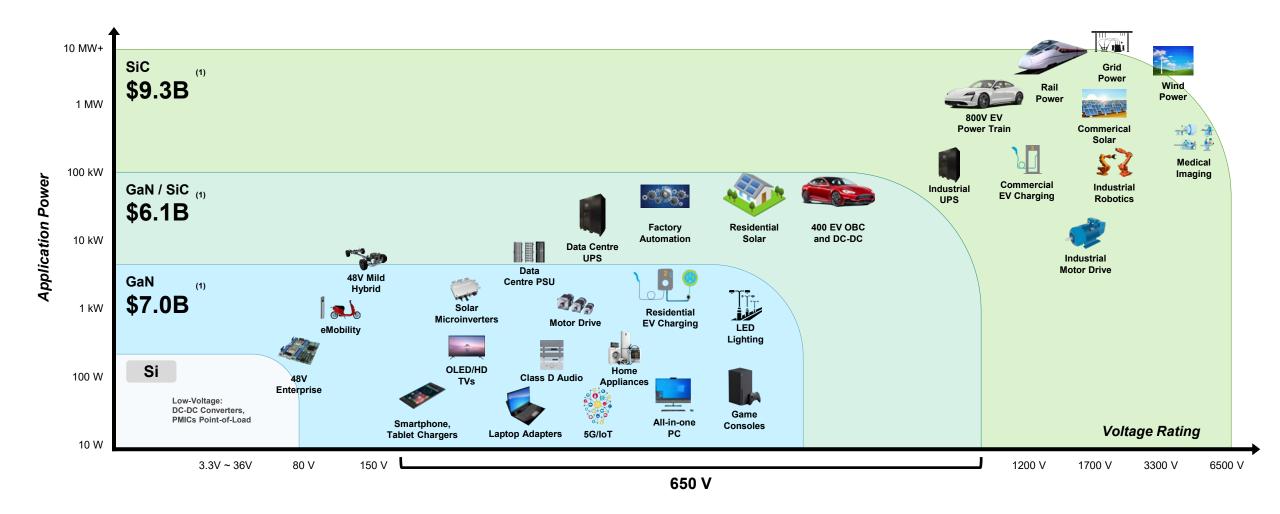
Second Power Revolution (Si IGBTS → SiC)

Navitas



\$22B+ 'Pure-Play' Potential Opportunity (1)

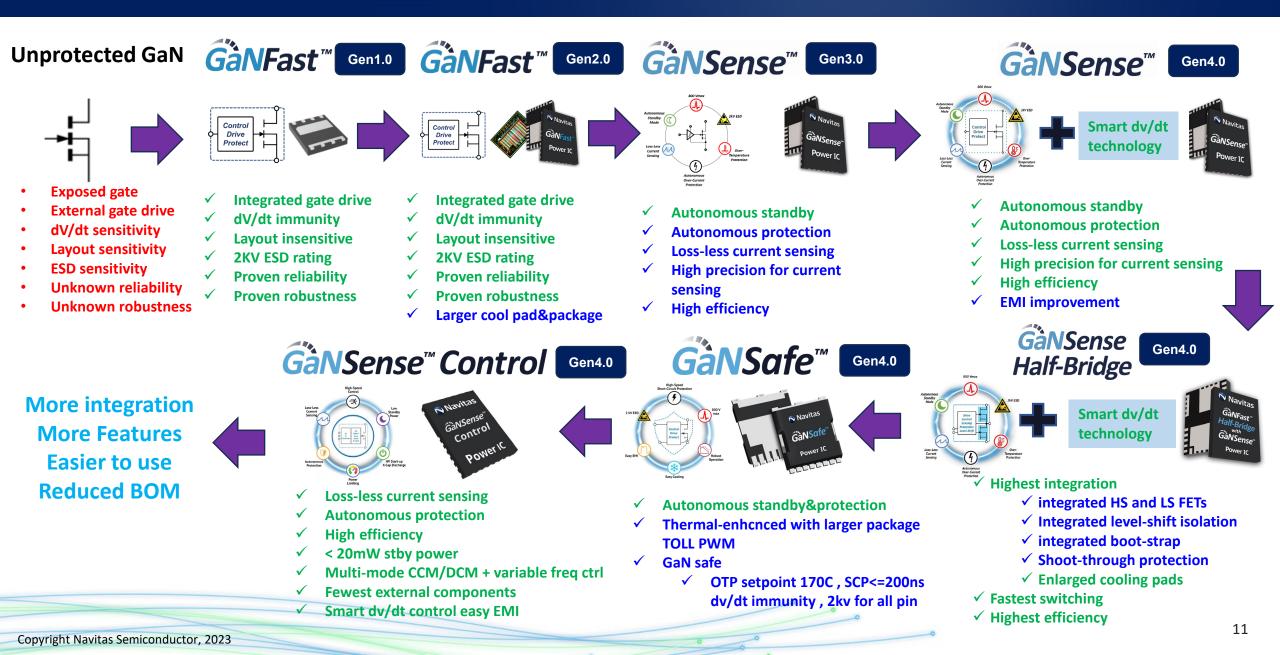




(1) Axes not to scale. Based on internal company estimates, Navitas believes that the potential market opportunity in 2026 is \$22B+ for GaN and SiC, replacing certain of the silicon market share

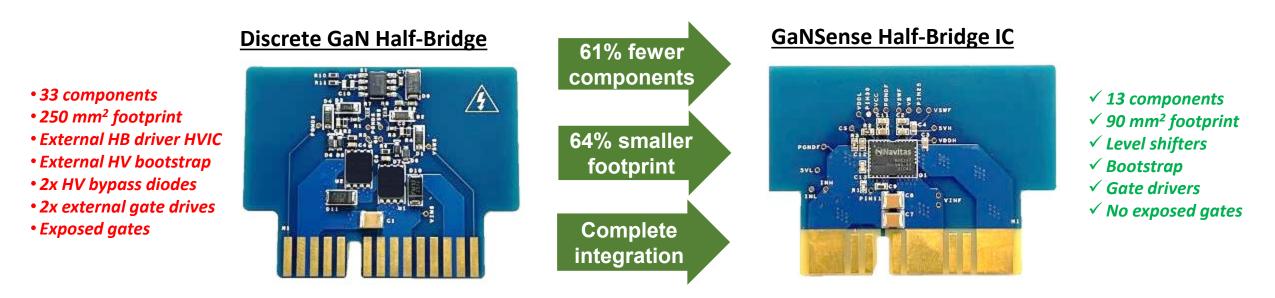
The Revolution... in GaN

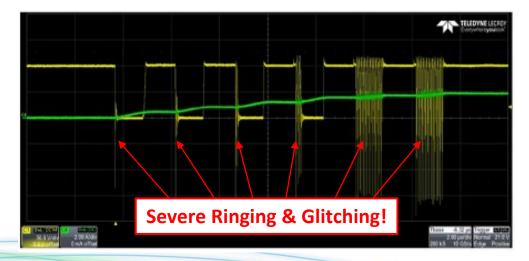
Navitas

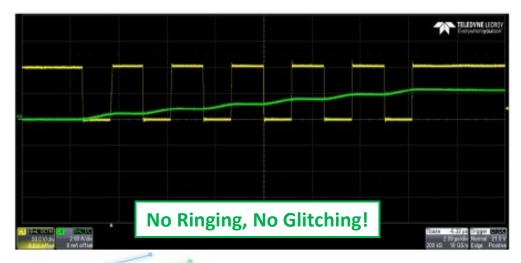


Accelerating Integration



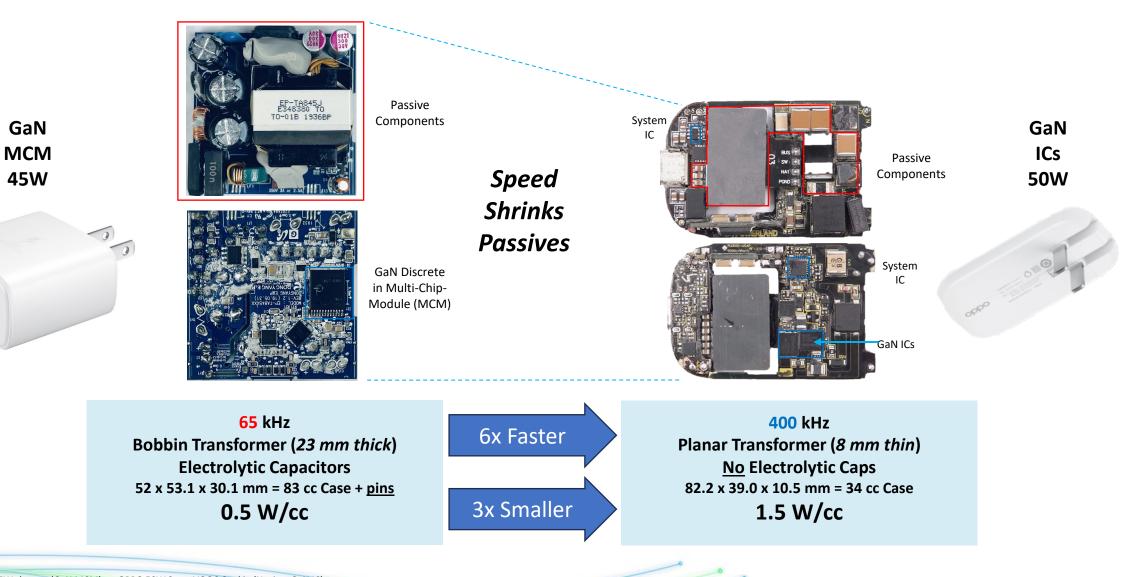






Accelerating Frequency





(1) Samsung 45W charger (GaN MCM) vs. OPPO 50W SuperVOOC Cookie (Navitas GaN IC)

Copyright Navitas Semiconductor, 2023

Accelerating Adoption



Tier 1 OEMs Aftermarket Examples GaNFast" SAMSUNG M moto X30 Pro spigen World's amazon Spigen Baseus MSU for iPhone 12 MOTOROLA Navitas Let's go GaNFast Baseus Let's go GaNFast" Let's go GaNFast Navitas Navitas Navitas Navitas Let's go GàNFast Let's go GaNFast" UGREEN The Ultimate Charging Experience M Verbatim Lenovo LEGION oppo UGREEN verbatim. NKE **POV**0 Del 100 12x SMALLER Navitas ANKER (mu) Navitas Let's go GaNFast et's po GANFA Navitas Let's go GaNFast Navitas 4 Port 200 W PO & 0C 3.0 NiNavita SATECHI World's Fastest Charging Technology OSWO' GAFAT Navitas Redmi Note ... belkin. kedm S TECHI SlimQ xiaomi realme by Xiaomi GT NEO B 100% in 9 minutes Navitas Navitas Navitas realme Navitas 100% 100M +260 150**GaN** Chargers GaN Chargers Top 5/5 Smartphone OEMs and GaN ICs Shipped⁽³⁾ In Development⁽¹⁾ Top 5/5 Notebook OEMs Mass Production⁽¹⁾ In Production with Navitas⁽²⁾ Notes: 1.As of 5/15/2023 2. Based on internal Navitas estimates of top mobile OEMs and their existing customer engagements 3.As of August 2023

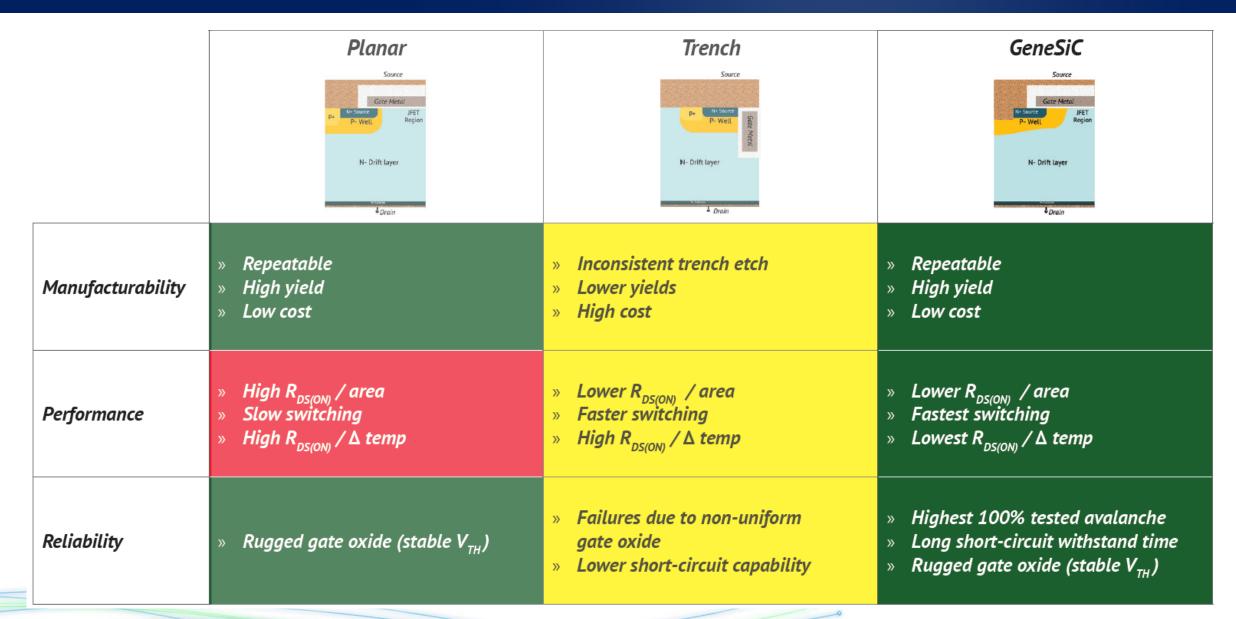
Copyright Navitas Semiconductor, 2023





Copyright Navitas Semiconductor, 2023

Best of Both: @GeneSiC[®]Trench-Assisted Planar Gate

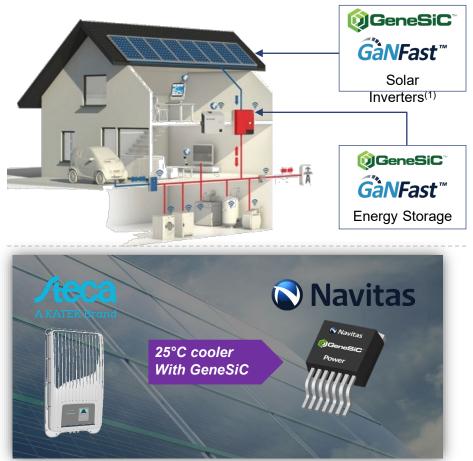




Accelerating Renewable Energy



(4)



Market Potential for GaN and SiC⁽²⁾ 35 Customers in Production, Engagement⁽³⁾ APsystems 💥 solis CHNT GROWATT Bloomenergy 📽 CanadianSolar 🛛 💥 SOLIS POWER ELECTRONICS SUNGROW /leCa solaredge CATL SØFAR 🛅 CRRC GOODL

>\$4.65B

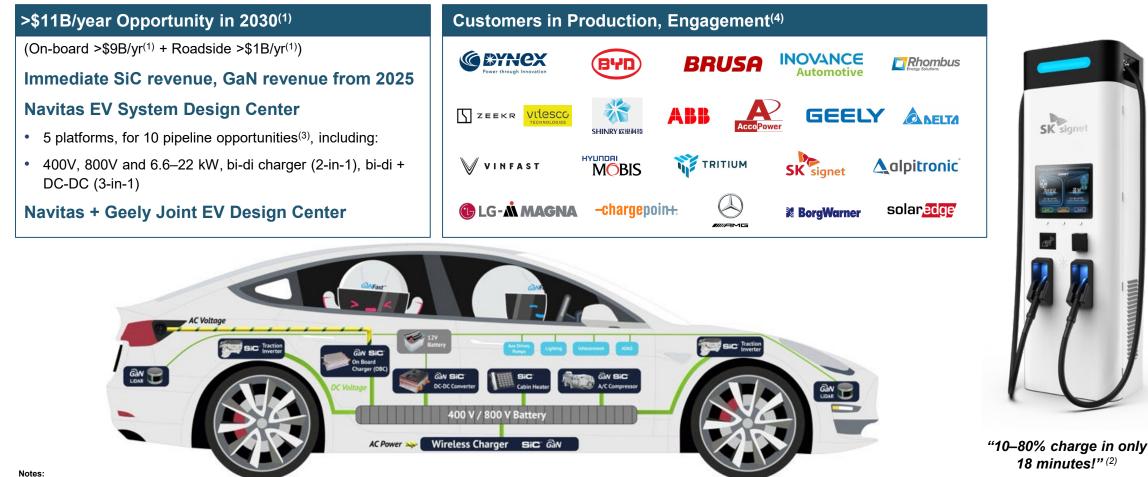
Navitas Strength & Potential Opportunities

- Solar up an estimated 3x 2022–2027, more capacity than natural gas by 2026, coal by ٠ 2027
- Inflation Reduction Act: >\$50B to solar, storage and wind •
- Navitas estimates that bus voltages will rise to 1,500V matches GeneSiC 3,300V • capability
- Immediate SiC revenue, GaN revenue starting from 2024

- Notes:
- Navitas est. 6.2 kW residential installation with silicon inverter at 97.5%, GaN at 98.5% efficiency 1.
- 2. Based on internal Navitas estimates of the market potential by 2030.
- Represent select potential customers Navitas is in discussions with currently. Representative logos do not indicate binding long-term agreements with any of the companies 3
- Based on discussions with Navitas customers

Accelerating EV

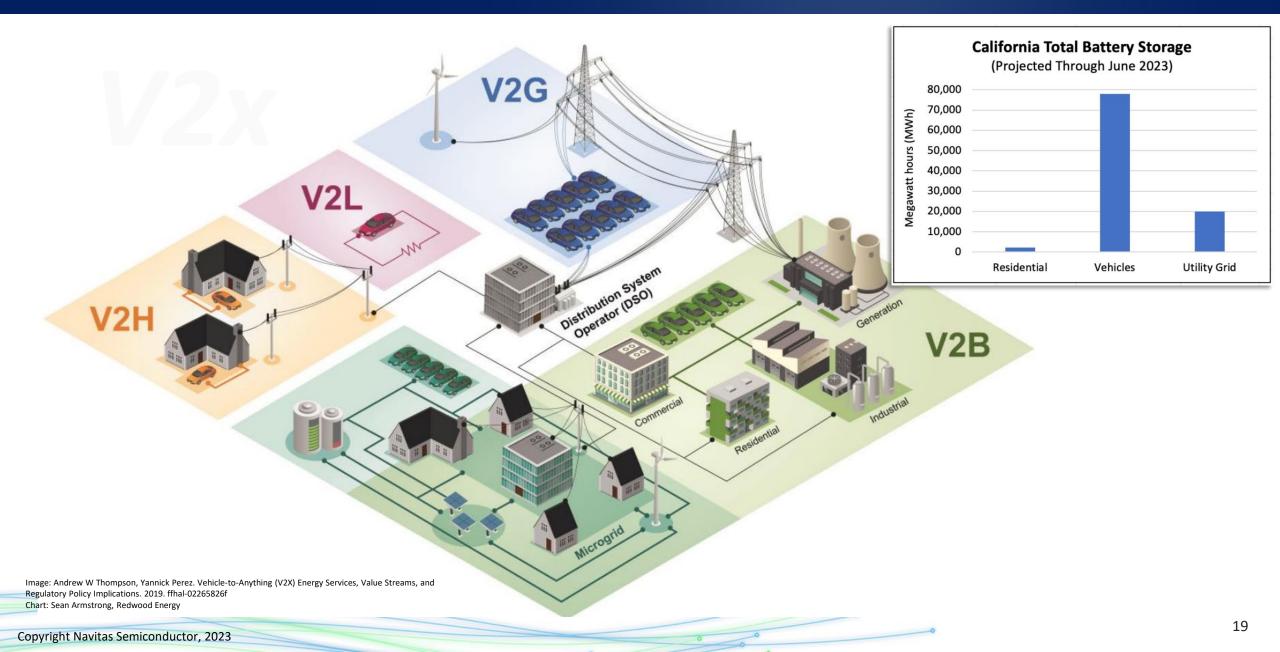




- 1. Company internal estimate 2030, 30M EV/yr, based on DNV and Navitas analysis. Note: Assumes 150 kW traction inverter, 100 kWh battery, \$100/kWh battery cost and typical 230 mile range.
- 2. Level 3 800V 350 kW DC charger 10–80% in 18 minutes for Genesis GV70 SUV.
- 3. This reflects estimated potential future business based on interest expressed by potential customers for qualified programs, stated in terms of estimated revenue that may be realized in one or more future periods. Pipeline opportunity is not a proxy for backlog or future revenue or other measure or indicator of financial performance. Rather, Navitas uses customer pipeline as a statistical metric to indicate relative changes in future potential business across various product markets. Time horizons vary accordingly, based on product type and application. Actual business realized depends on ultimate customer selection, program share and other factors
- 4. Represent select potential customers Navitas is in discussions with currently. Representative logos do not indicate binding long-term agreements with any of the companies

Vehicle-to-Everything





Accelerating Sustainability

Navitas



May '22 World's first semiconductor company CarbonNeutral[®] certified

4x-10x lower component CO₂ footprint than silicon

28% lower lifetime CO₂ footprint for chargers / adapters

Accelerates transition from ICE to EV by 3 years, saving 20%/yr of road-sector emissions by 2050

GaN + SiC save up to 6 Gton / year by 2050

August '22 First 100,000 tons CO₂ saved (Over 200,000 as of November 2023)



saves 40 kg CO₂



ESG Investing **Reporting Awards 2022**

'Best Sustainability' - finalist 'Best Climate-Related (Mid-Cap)' - runner up



October '22 Recognized for industry-leading sustainability reporting



Electrify Our World[™]

How the Si to GaN/SiC Transition Accelerates Our Journey From Fossil Fuels



Navitas Electrify Our World™

Navitas

GàNFast

Power IC

Navitas

neSic.

Dr. Xiucheng Huang Sr. Director, Applications Engineering Guangzhou, November 2023

ir@navitassemi.com Copyright Navitas Semiconductor, 2023

