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28 February - 2 March 2022



Electrify Our World™



Gene Sheridan, CEO & Co-Founder
March 1st, 2022



Navitas

Energy • Efficiency • Sustainability

Nasdaq : NVTS



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Disclaimer 2-22-22



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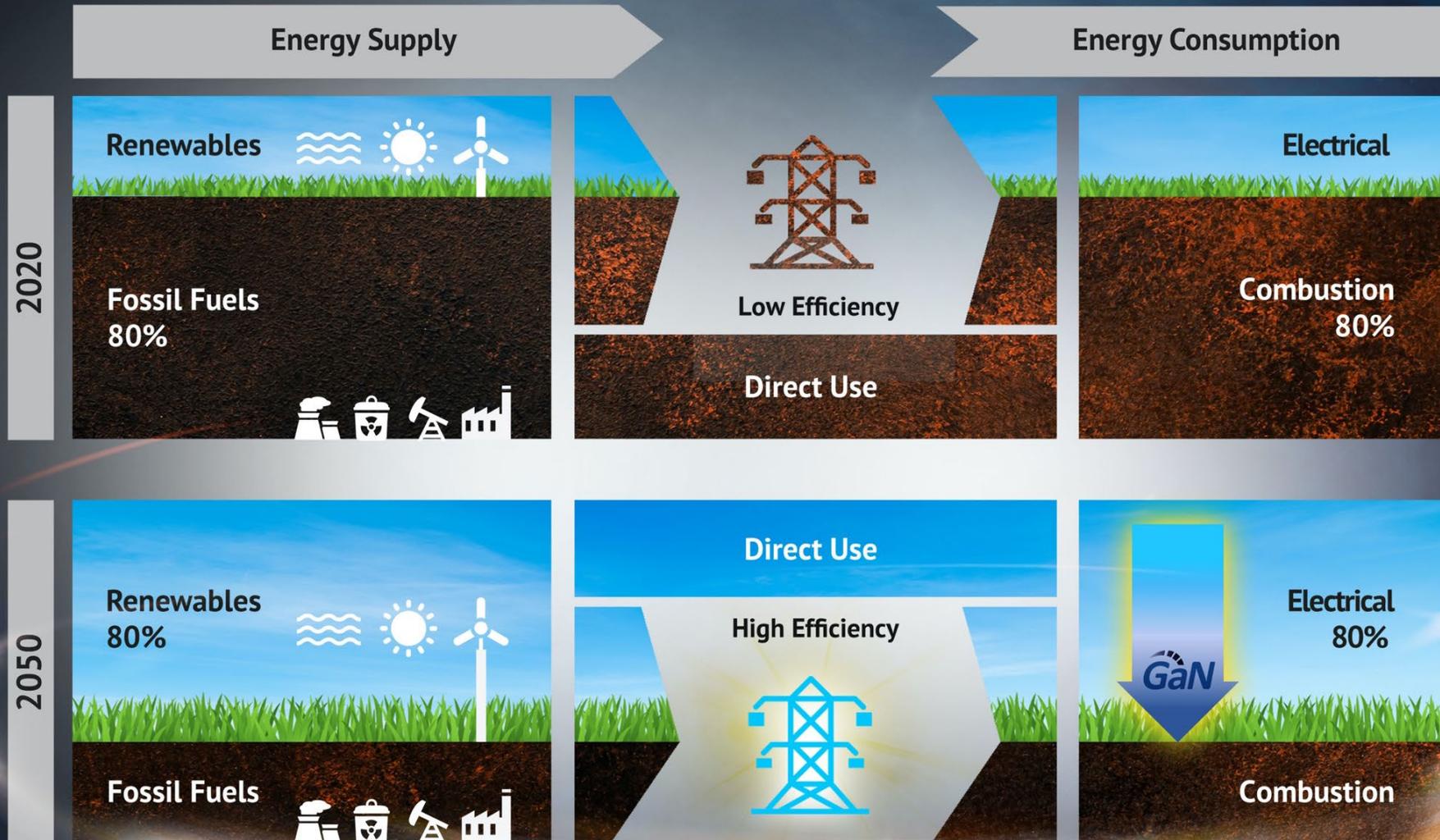
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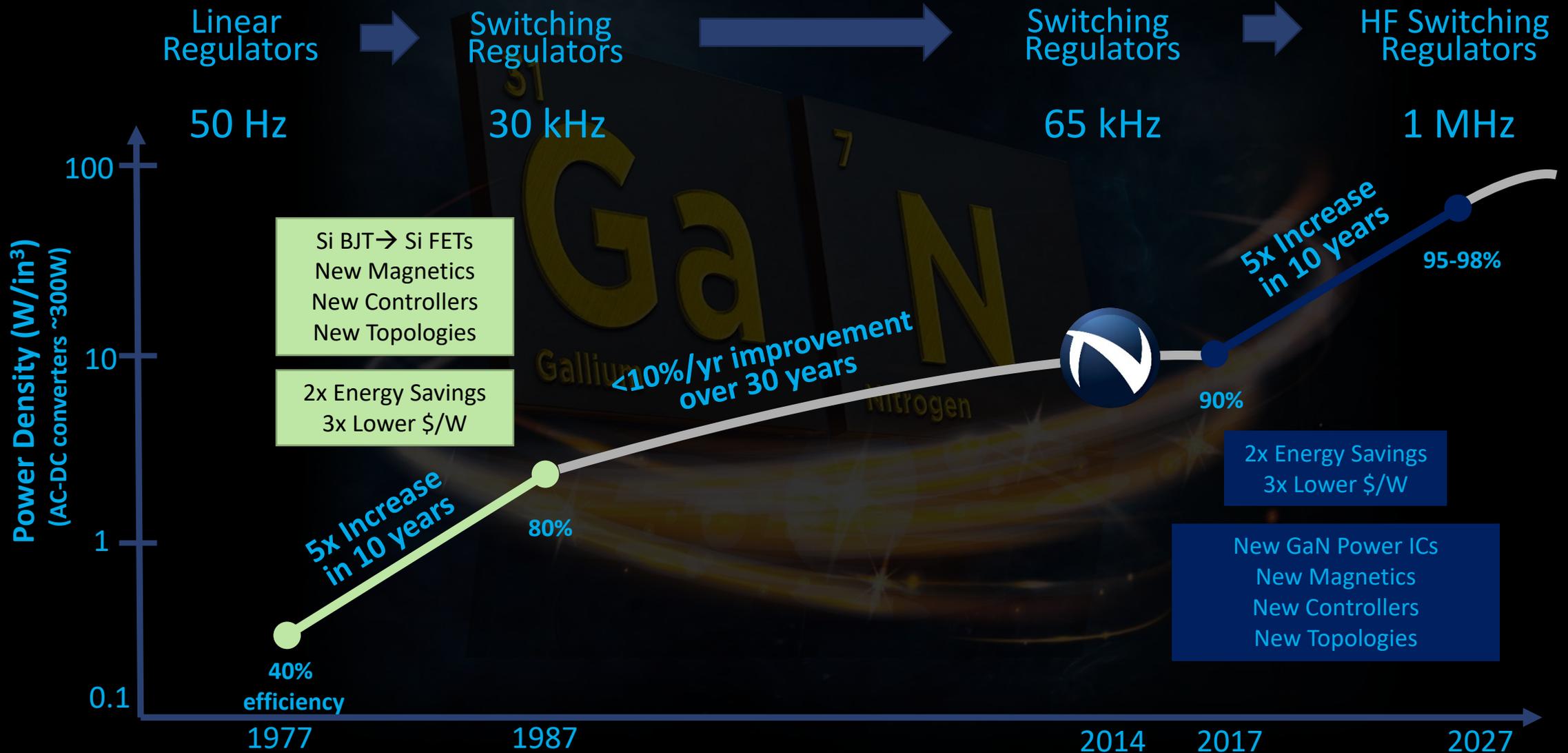
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Electrify Our World™

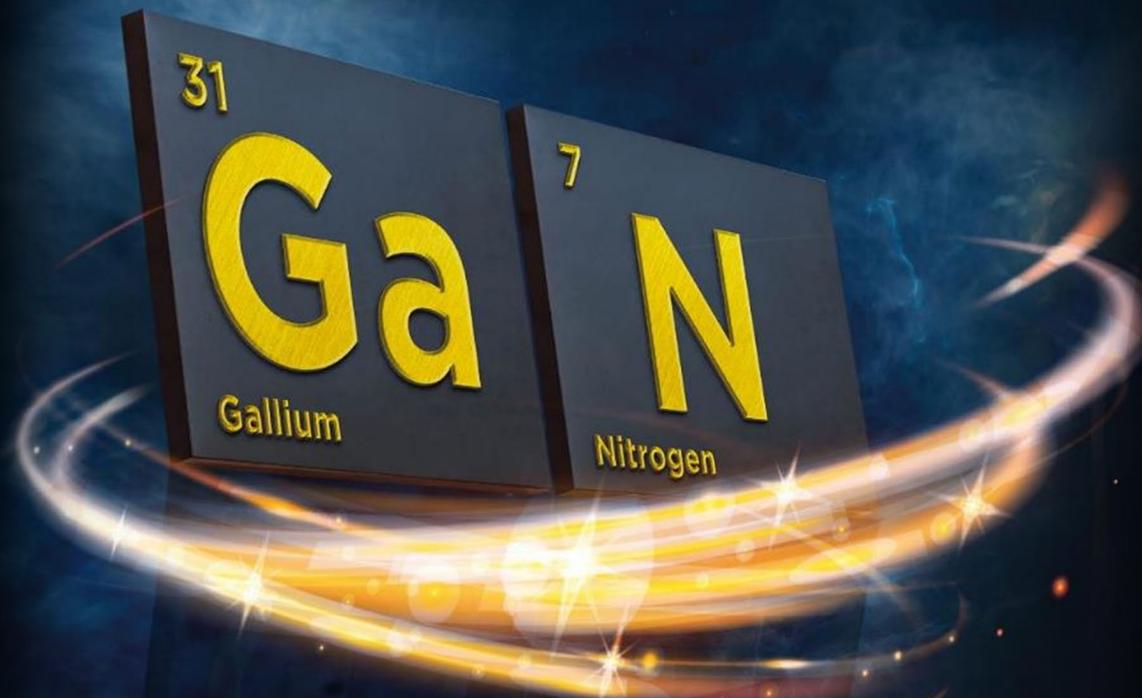


Once every 40 years...

Second Revolution in Power



The Enabling Force



20x

Faster
Switching

3x

Smaller &
Lighter

Up To
40%

Energy
Savings

Up To
3x

Higher
Power Density

3x

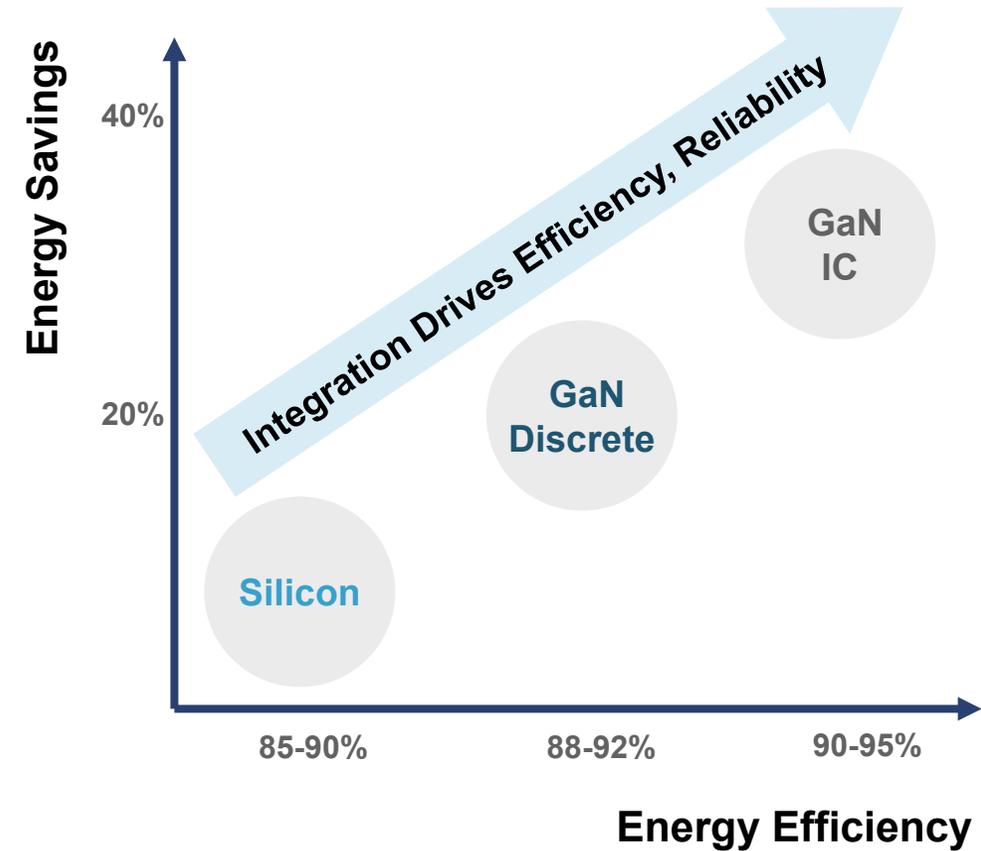
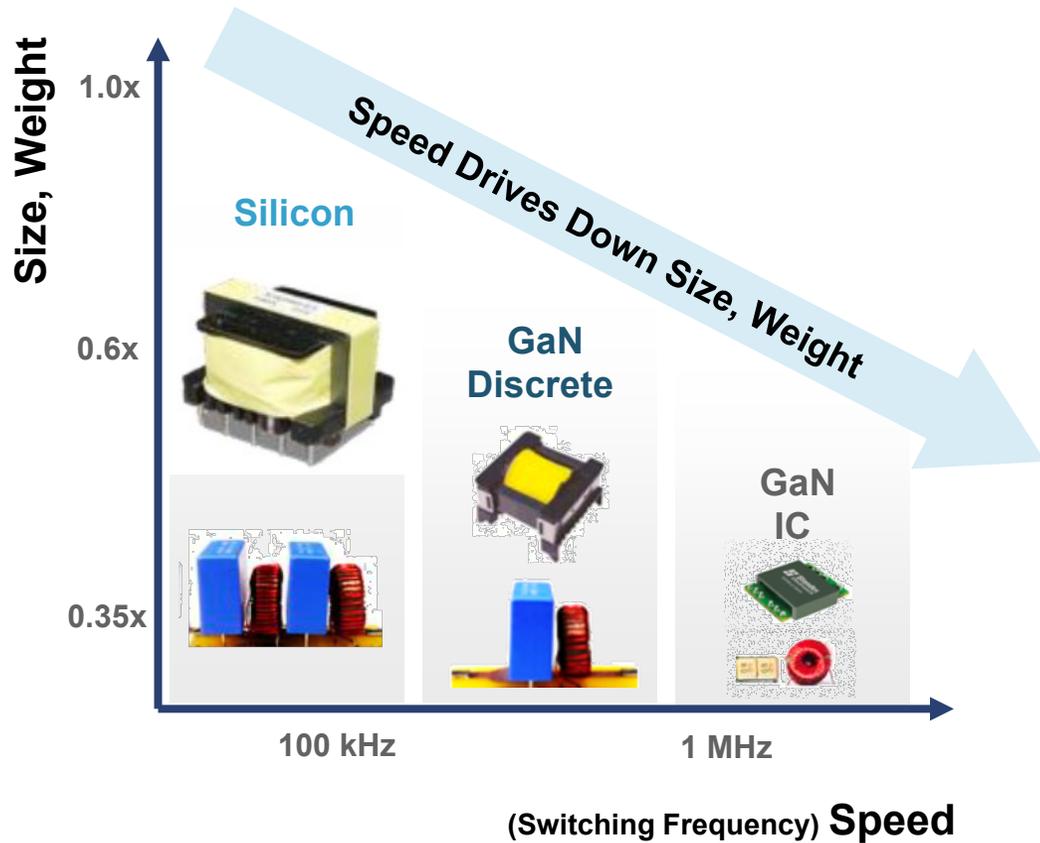
Faster
Charging

20%

Lower
System Cost

Note: Statistical data is based on Navitas estimate of GaN-based power systems compared to Si-based systems in the 2024-2025 timeframe. Based on Navitas measurements of select GaN-based mobile wall chargers compared to Si-based chargers with similar output power. Relative to silicon, GaN has 10x stronger electrical fields and 2x greater electron mobility, enabling high voltages in fast chips and fast switching with high energy savings.

Speed and Efficiency Drive Value



GaN power ICs enable up to 3x smaller, lighter ⁽¹⁾

GaN ICs save 40% energy ⁽²⁾, 100x more reliable ⁽³⁾

(1) Based on Navitas measurements of GaN-based chargers compared to Si-based chargers with the same output power.

(2) Navitas estimate of GaN-based power systems compared to Si-based systems in the 2024-2025 timeframe, Navitas measurements of select GaN-based chargers vs. Si-based chargers with similar power.

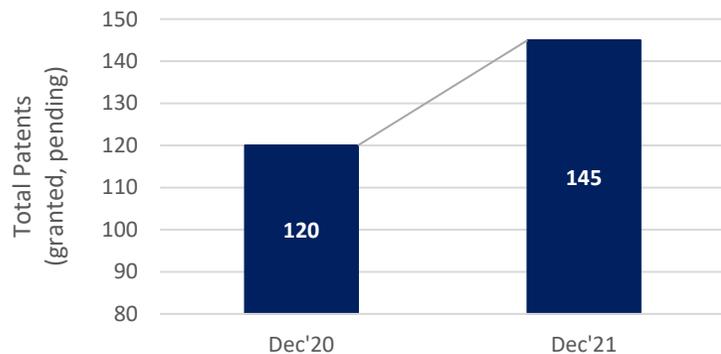
(3) V_{GS} failure distribution based on Navitas internal characterization of Discrete GaN Transistors compared to GaN power ICs.

#1 in Innovation



• GaN IC inventor and pioneer

- Proprietary AllGaN™ Process Design Kit (PDK)
- 145 patents (granted, pending)

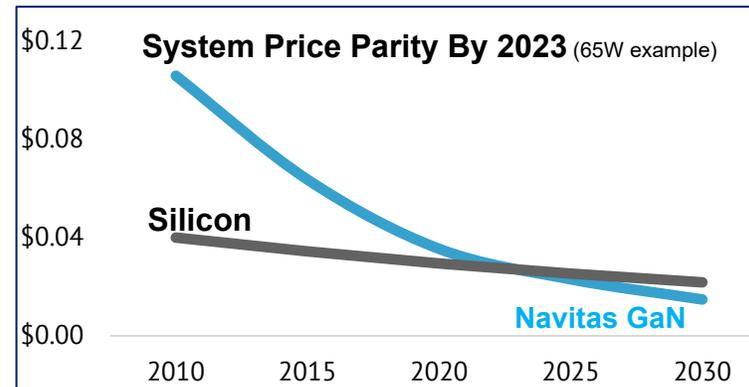


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• New generation every 10-12 months

- Gen 3 GaNSense™ in production
- High-power GaN ICs sampled in Q4'21
- Gen 4 sampling Q2'22



- Industry's first 20-year warranty
- 35,000,000 GaNFast ICs shipped
- 0 reported field failures ⁽¹⁾



(1) Based on no customer-reported consumer failures for production shipments through December '21

Fast Chargers: 2-3% of \$2B Potential - Major Growth Ahead!

Tier 1 OEMs



Aftermarket Examples



170+

GaN Chargers In Mass Production

240+

GaN Chargers In Development

100%+

Mobile OEMs Designing With Navitas GaN ICs⁽²⁾

35M+

GaN ICs Shipped⁽¹⁾

Zero

GaN Field-Failures⁽¹⁾

Energy Savings Beyond Chargers

Efficiency, Size, Weight Drive Adoption

• Consumer

- Up to 3x smaller, lighter, low-profile
- TV: UHD to 8K needs 4x power
- **>\$2B/yr potential⁽¹⁾**
- Lead opportunities in late-stage development⁽²⁾
- Awarded Tier-1 All-in-one PC



• Solar

- 25% *cost reduction* of micro-inverters⁽³⁾
- Up to 40% energy savings
- *Improve payback by 10%+* ⁽⁴⁾
- **Residential potential >\$1B/yr⁽⁵⁾**



“It’s the *end of the road for silicon.*”

“GaN offers >10x frequency, *significant* cost advantages”



• Data Center: Save \$1.9B/yr ⁽¹¹⁾

- 44% of cost is electricity⁽¹¹⁾, GaN could reduce by up to 10%⁽¹²⁾
- Save >15 TWh or \$1.9B/yr, 2-month ROI⁽¹³⁾
- **\$1B+ /yr potential⁽¹⁴⁾**

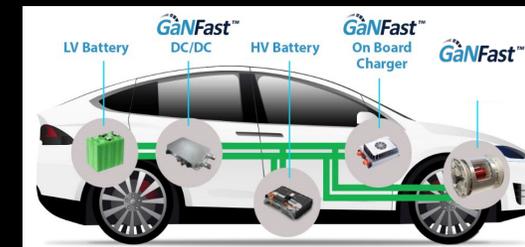
“*GaN is a breakthrough new technology*”

“*Navitas: excellent partner, industry-leading GaN ICs*”



• EV: Accelerate Adoption by 3 years⁽⁶⁾

- 3x faster charging⁽⁷⁾
- 70% energy savings enables
- 5% longer range, or 5% lower battery cost⁽⁸⁾
- **>\$2.5B/yr potential in 2030⁽⁹⁾**

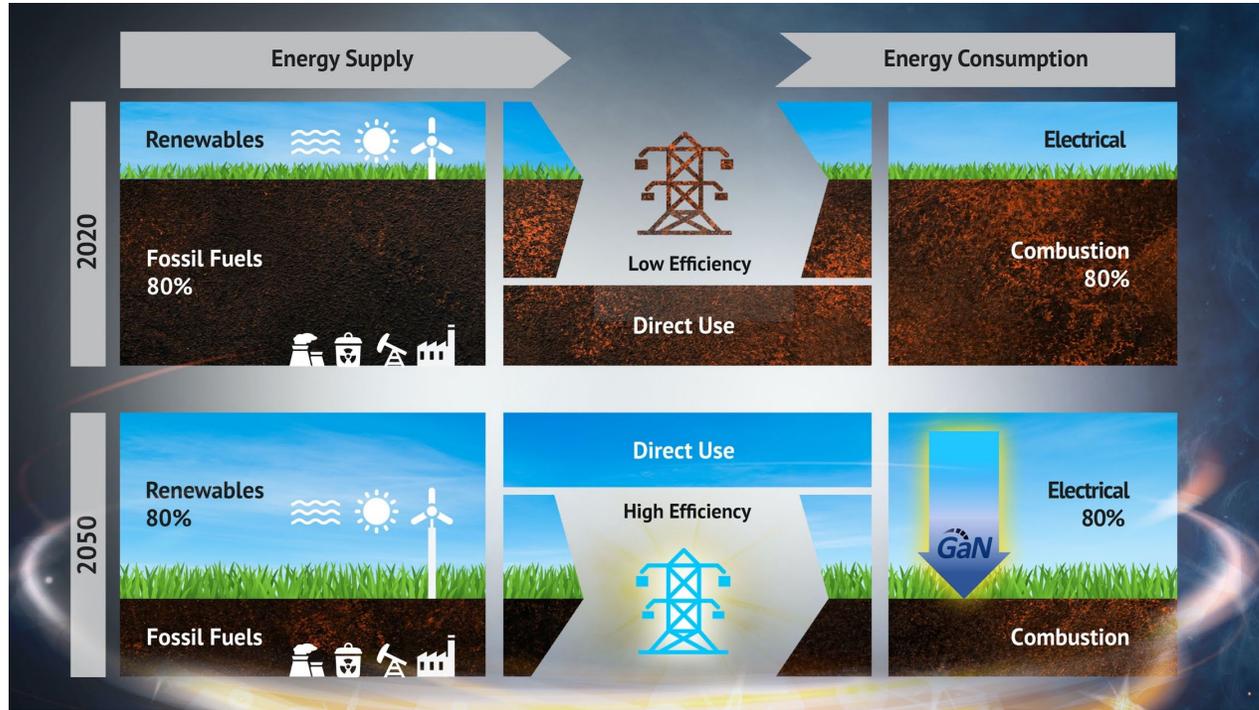


- OBC ~\$ 50
- DC-DC ~\$ 15
- Traction ~\$200
- GaN potential/EV = ~\$250 ⁽¹⁰⁾

“Navitas advantages: *simplicity of driving, high-speed, reliability & compact form factor.*”



Electrify Our World™



4x-10x lower component CO₂ footprint than silicon⁽¹⁾

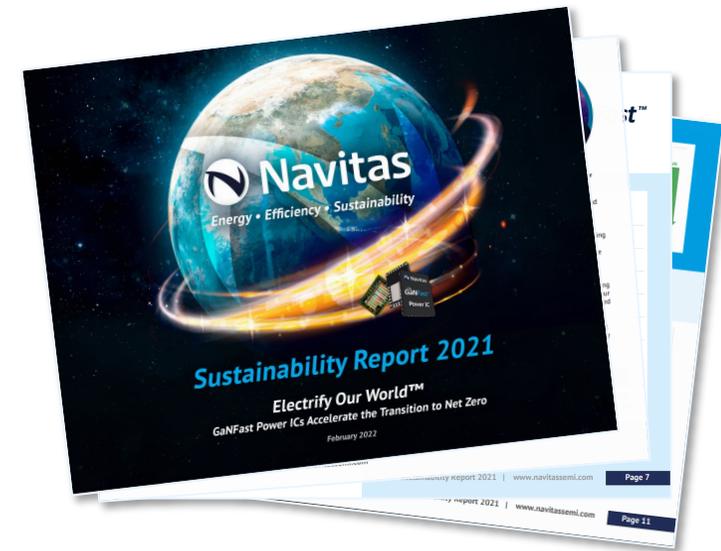
28% lower lifetime CO₂ footprint for chargers / adapters⁽²⁾

Accelerate transition from ICE to EV by **3 years**, saving **20%/yr** of road sector emissions by 2050 ⁽⁴⁾

GaN saves **2.6 Gton / year** by 2050⁽⁵⁾

Every **GaNFast™** IC saves⁽³⁾

4 kg CO₂



Industry's first Sustainability Report to quantify the positive impact of GaN on climate change based on global standards

(1) Navitas and Earth-Shift Global analysis. 4x lower for 2021, 10x lower by 2022 per life-cycle analysis

(2) Navitas and Earth-Shift Global estimated based on 65W charger per life-cycle analysis

(3) Navitas estimate based on GaN vs Si total life-cycle analysis.

(4) DNV estimate for 75%-adoption milestone pull-in, total road sector benefit

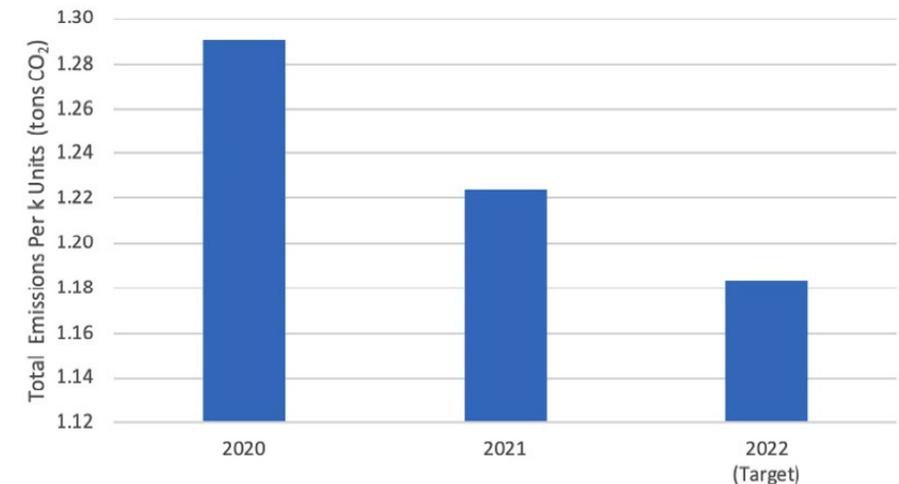
(5) Company information, DNV GL, EPA, IEA, International Renewable Energy Agency (IRENA). See 5-7-21 Investor presentation for details (filed with SEC). Derived from demand & energy efficiency CO₂ reduction of 1.4 Gt; assumes a \$0.12 / kWh cost of electricity and a carbon to energy ratio of 0.00071 tons / kWh, aligned with the EPA's marginal emission rate.

Aggressive Reduction in Corporate Emissions

Navitas Semiconductor GHG Emissions Summary, 2020-2022

tons CO ₂	2020 Corporate	2021 Corporate	2022 Corporate (Target)	tons CO ₂	2020 Per k Units	2021 Per k Units	2022 Per k Units (Target)
Scope 1	0	0	0	Scope 1	0	0	0
Scope 2	143	336	789	Scope 2	0.01	0.01	0.01
Scope 3	14,315	28,871	64,311	Scope 3	1.28	1.21	1.17
Total	14,458	29,207	65,100	Total	1.29	1.22	1.18

Total Scope 1, 2 & 3 Emissions Per k Units (tons CO₂)



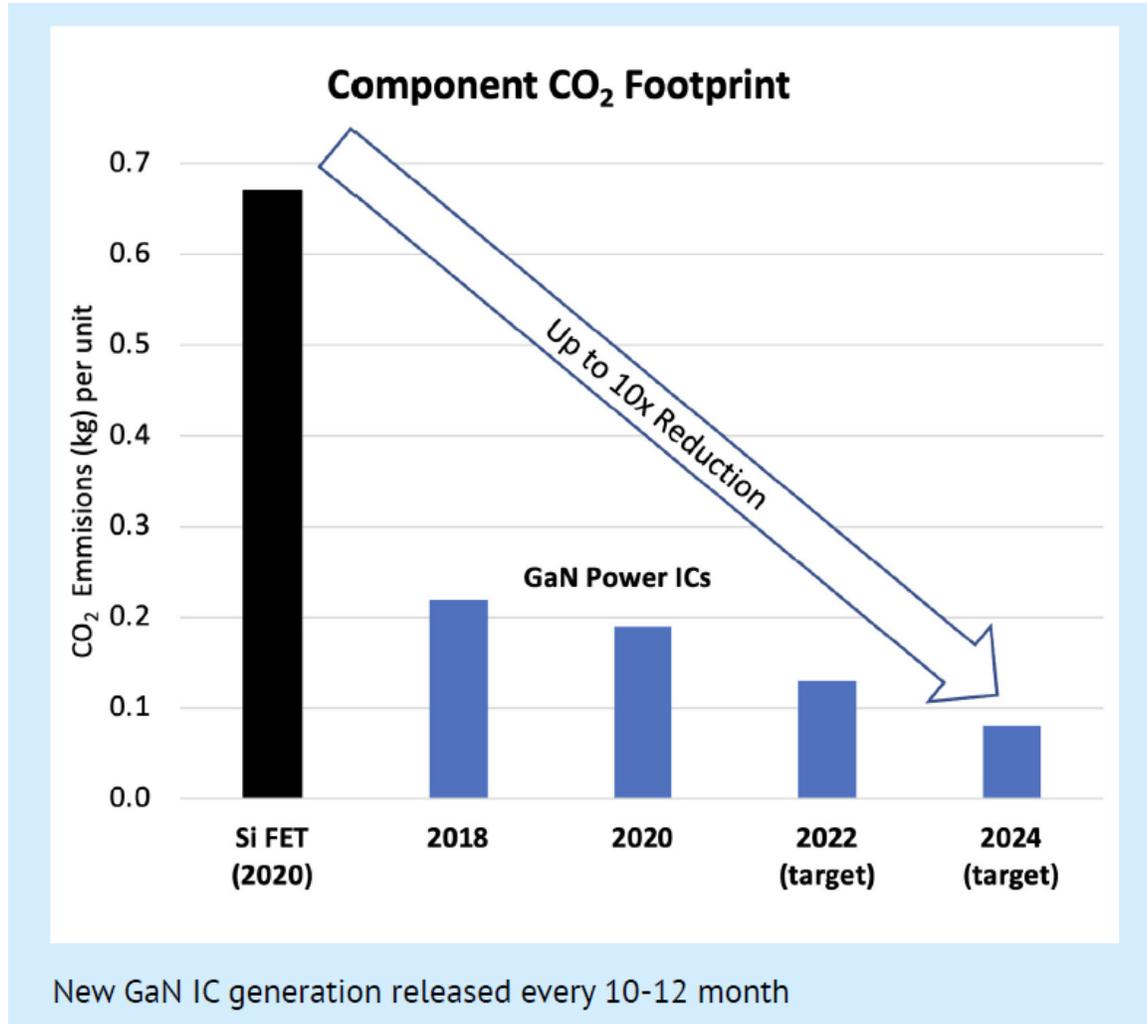
Per-unit emissions were reduced in 2021 by 5%, with a goal to reduce emissions in 2022 by an additional 3% or more.



In July 2021, Navitas committed to the Business Ambition for a maximum 1.5°C rise in global temperatures by the 2050 deadline set by the 2015 Paris Accord.

As Navitas operates a 'fabless' manufacturing model, partnering with world-class companies such as TSMC for wafer/chip manufacturing, and with no company-owned facilities or vehicles, Scope 1 (direct) CO₂ emissions are zero. Scope 2 (energy purchases) and Scope 3 (up-stream activities, waste, etc.) are shown above.

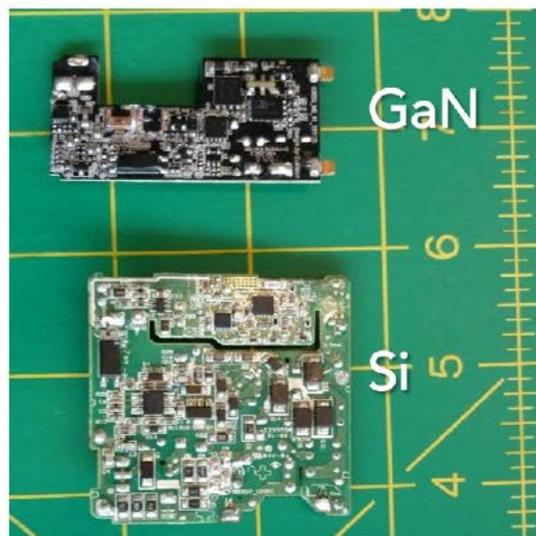
GaN: 4x-10x Lower CO₂ than a Silicon Chip



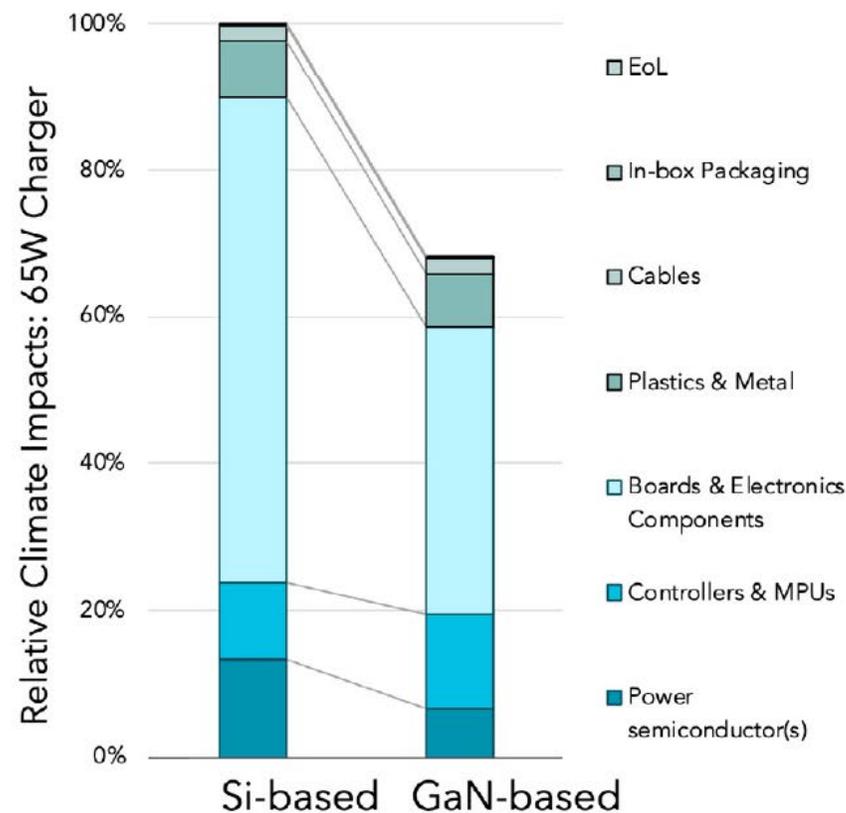
- Smaller GaN die, more die per wafer
- Integration eliminates multiple external components
- GaN wafers will expand from 150mm (6") to 200mm (8")
- Next-generation of Navitas GaNFast power ICs every 10-12 months
 - Smaller die
 - Higher frequency
 - Higher integration
 - Higher efficiency

Adapter Life Cycle Analysis: Dematerialization

Third-party total life-cycle analysis of 65W charger upgrade from silicon to GaN power ICs.

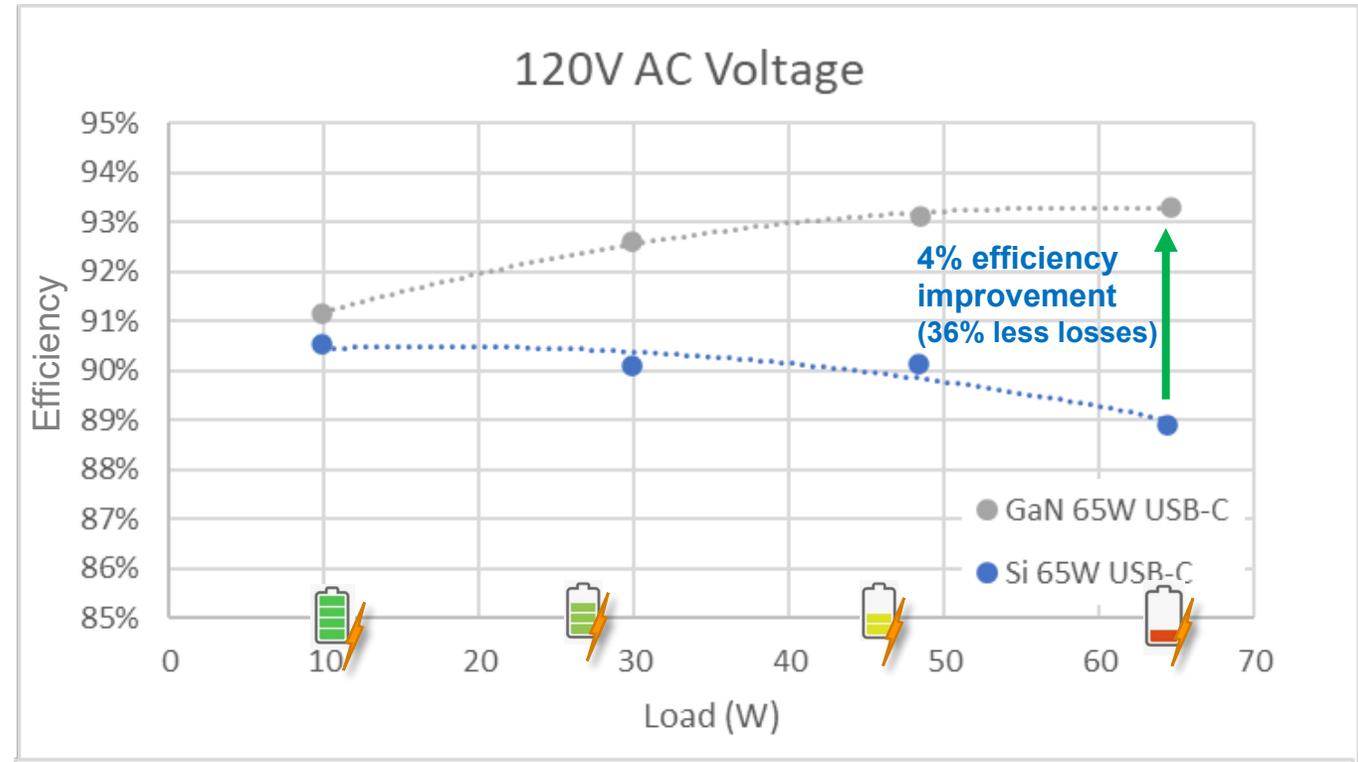


EarthShift Global
ADVANCING YOUR SUSTAINABILITY

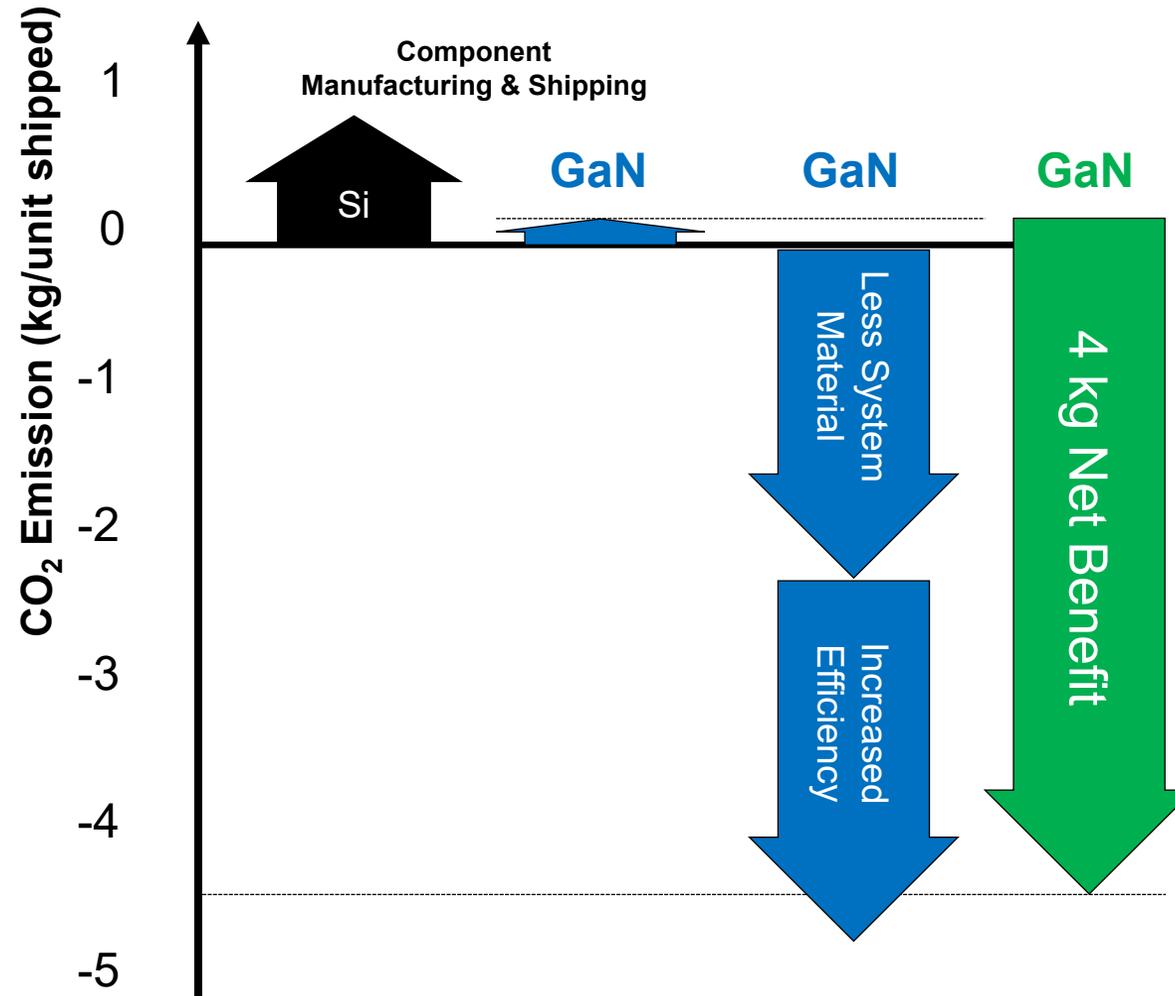


Adapter Life Cycle Analysis: Use-Phase

- Up to 36% energy savings
- LCA analyzed across multiple user categories:
 - 70% heavy load / 30% light load
 - Full-load efficiency more important for 'heavy-charging' conditions ('road warriors')
 - Light-load efficiency becomes a larger factor for applications normally plugged in with light/moderate use (e.g. Alexa, Google Home)
- Geographical impacts
 - Most adapters are rated to cover wide-range 90-265V_{AC} but be optimized for 120V and 240V cases

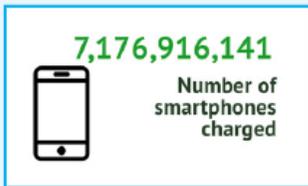


Every GaN IC Shipped Saves 4 kg CO₂

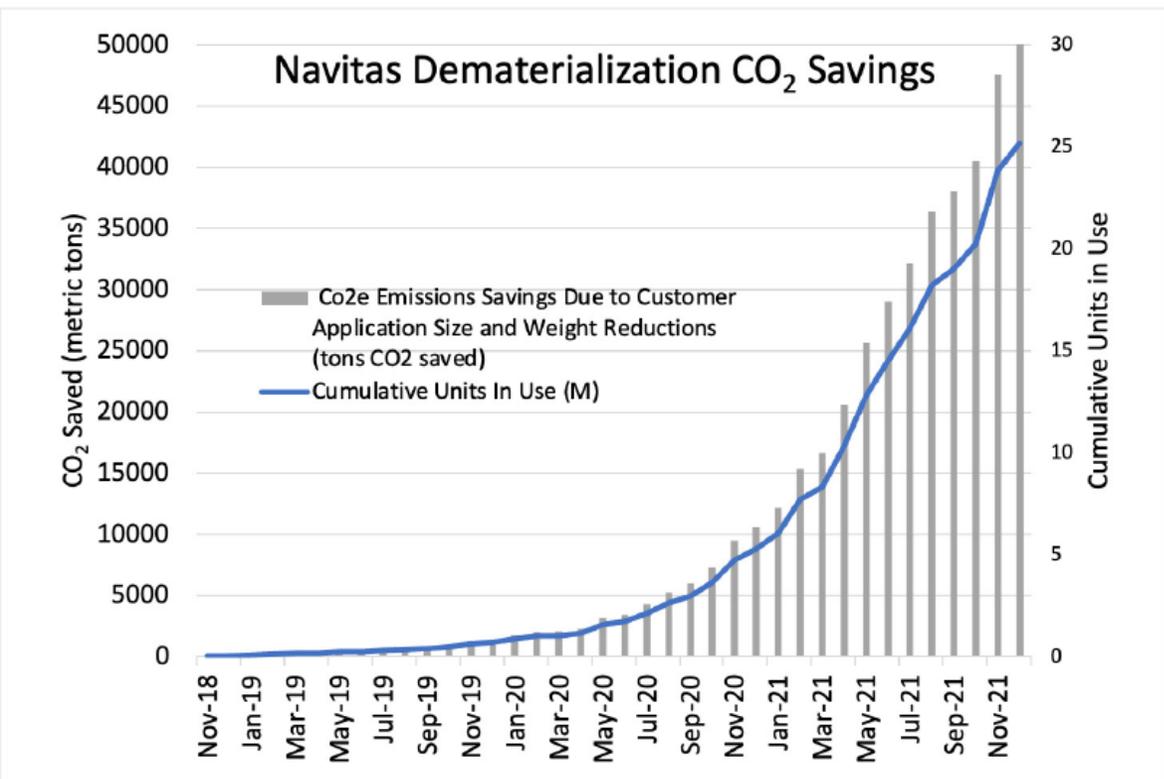
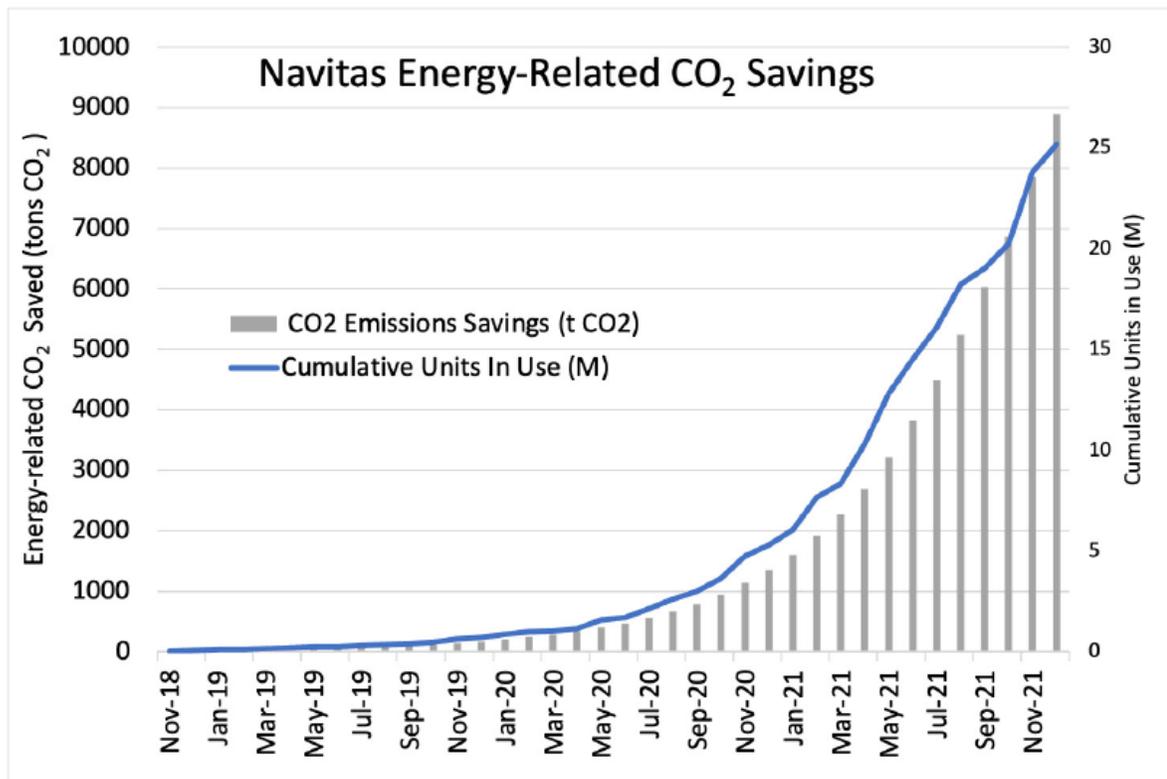
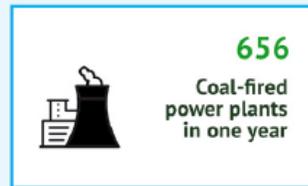


GaNFast CO₂ Savings to Date...

By December 2021:
Navitas GaN had saved
>59,000 tons CO₂



By 2050: Estimated
GaN could save
2.6 Gtons/yr CO₂



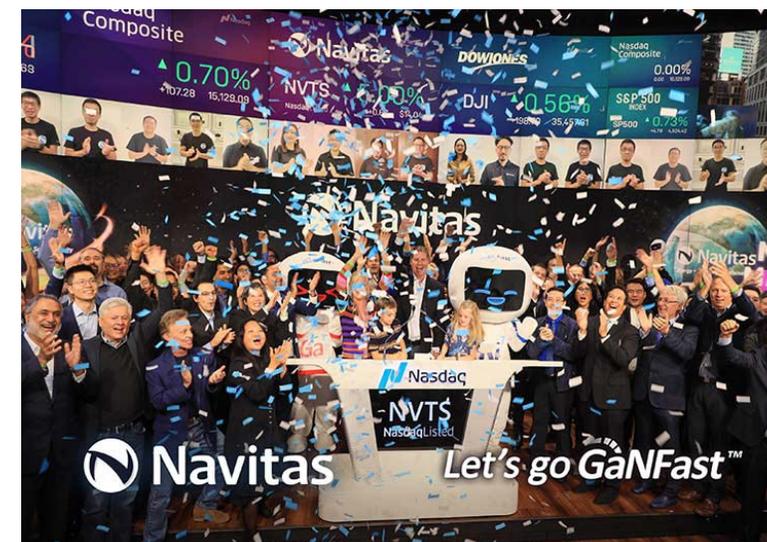
As of December 2021, over 35 million GaN ICs had been shipped. The calculations and charts above assume a 6-month lag between shipment date and operation by the end user, so show only ~25 million 'in use'.

Navitas Fundamentals

#1 in GaN

- #1 Market share in a \$13B market
 - 8/10 top mobile customers in production
 - 10/10 in development
 - Production designs +70% to 170+
 - Developments +100% to 240+
 - 35Mu shipped, **zero** GaN-related field failures
 - Expansion markets on track
 - Data center revenue starts early '23, solar late '23, EV in '25
 - Short lead-times, 3x capacity in 2022
- #1 Technology
 - Multi-year, sustainable lead
 - 170 employees
 - Patents +20% to 145, plus proprietary PDK
 - Dedicated design centers: Mobile, Data Center, EV
 - 20-year warranty
 - Save 4 kg CO₂ per GaNFast IC

- Strong Financial Performance
 - 2x revenue in 2021 to \$23.7M
 - Guiding 2x to 48M in '22
 - Gross margin +13.7%
 - Guiding 44% in '22, long term 55%
 - 117.7M shares outstanding (Dec'21)
 - ~120-124M after NVT SW warrant redemption
 - \$268M cash, low burn rate



Thank You

ir@navitassemi.com



Navitas

Energy • Efficiency • Sustainability



References to Slide 9 (Expansion Markets)



1. Based on Navitas measurements comparing typical 150W 65 kHz Si-based AC/DC power adapter to 150W 1MHz GaN-based power adapter prototype.
2. Based on information provided to management by potential customers.
3. EnergySage Solar Marketplace, 2020.
4. Based on estimates from Gartner, Pulsenews, WitsView, Statista and Navitas estimates
5. Navitas est. vs. Si-based 500W residential micro-inverters assuming GaN-based inverter enables 40% reduced power loss and 25% lower inverter costs
6. Navitas est. average 2021-2030, residential installations, MarketsandMarkets, IHS, Fraunhofer ISE, customer input.
7. Navitas engineering estimate 6.6 kW Si OBC vs. 21 kW GaN OBC assuming a 90 kWh battery and 80A wall charge limit.
8. Assumes 150 kW traction inverter, 100 kWh battery, \$100/kWh battery cost and typical 230 mile range. Based on DNV and Navitas analysis
9. Based on BCG Research, Yole Research and Navitas analysis.
10. Navitas estimate based on discussions with major suppliers of power electronics to the electric vehicle industry.
11. Navitas estimate based on a) Navitas server/datacom forecast & AAAS data, b) \$0.12/kWhr, c) Si vs. GaN \$/W and d) data center loading profile.
12. Navitas estimated based on known existing Si-based solutions to deliver >500A next-generation data processors to Navitas targets for new GaN-based AC/DC and DC/DC for these same next-generation data processors.
13. Schneider Electric. White Paper – Determining Total Cost of Ownership for Data Center and Network Room Infrastructure.
14. Navitas measurements based on existing Si-based 3.2kW AC/DC server power supply to a 1 MHz GaN-based 3.2kW AC/DC prototype.