

JPMORGAN CHASE & CO.

*Electrify
Our World™*



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Navitas

Energy • Efficiency • Sustainability

Nasdaq : NVTS



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GaN Expected To Replace Silicon In Power Applications



20x

Faster
Switching

3x

Smaller &
Lighter

Up To
40%

Energy
Savings

Up To
3x

Higher
Power Density

3x

Faster
Charging

20%

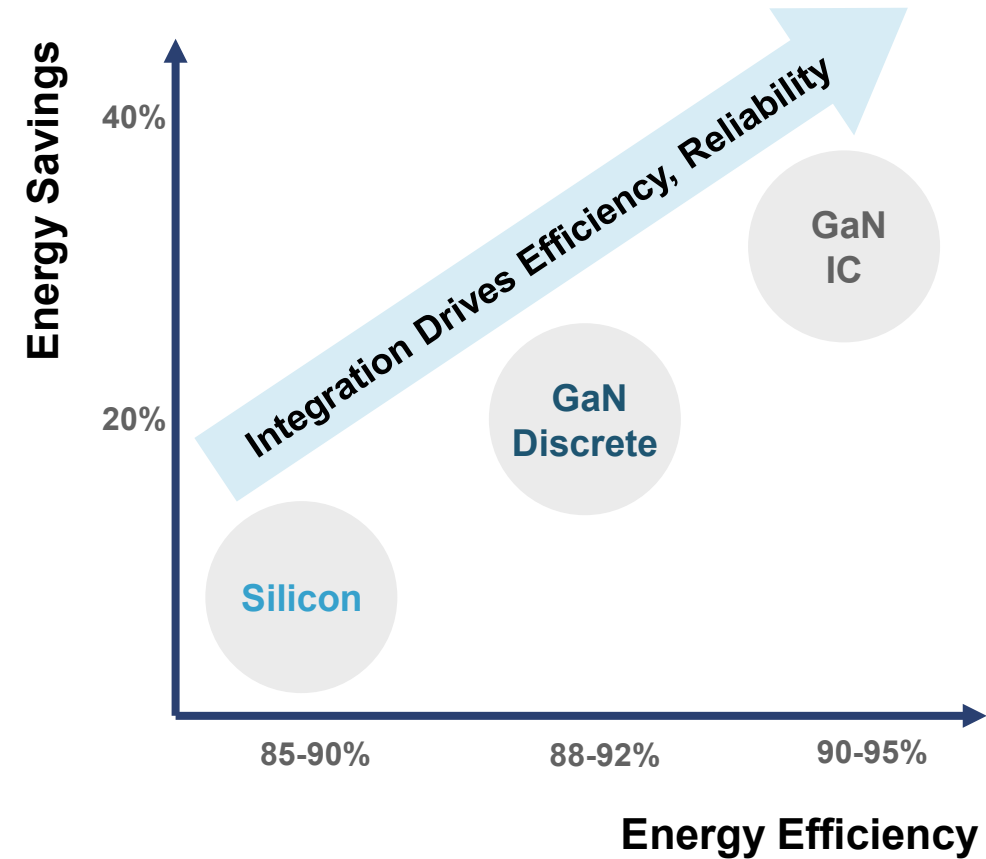
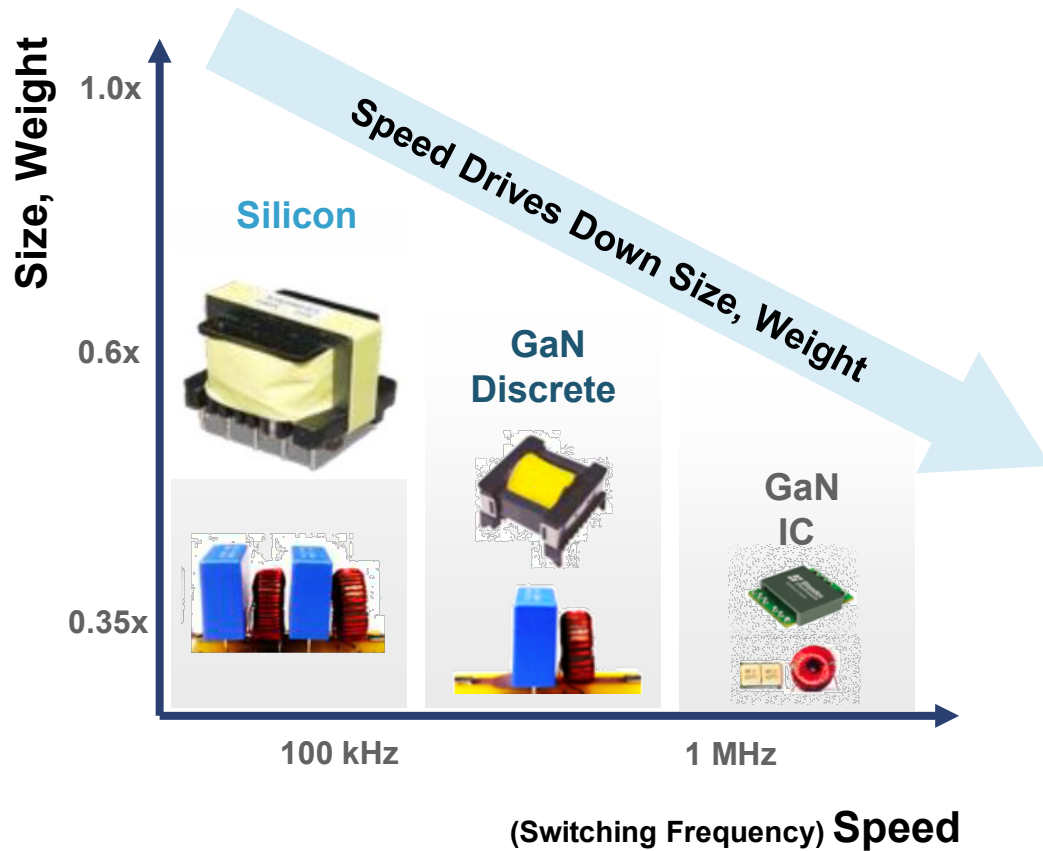
Lower
System Cost

Navitas GaN Is Empowering Efficiency In Industries Where Power Is Key⁽¹⁾

Note: Statistical data is based on Navitas estimate of GaN-based systems compared to Si-based 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.

(1) 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.

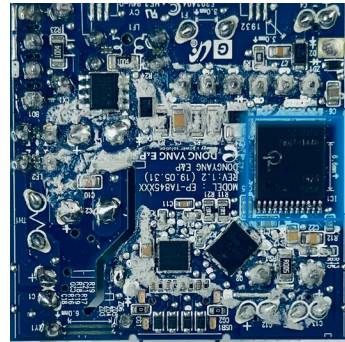
(3) V_{GS} failure distribution based on Navitas internal characterization of Discrete GaN Transistors compared to GaN power ICs.

Critical Integration: GaN Discrete → GaN Power IC

GaN Discrete (MCM) 45W



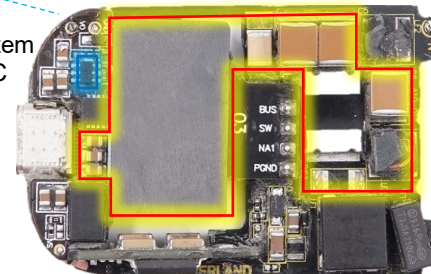
Passive Components



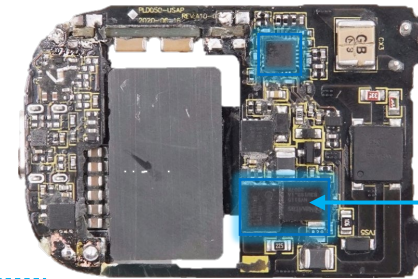
GaN Discrete in Multi-Chip-Module (MCM)

Speed Shrinks Passives

System IC



Passive Components



System IC

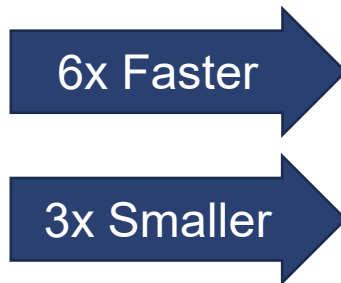
GaN ICs

GaN IC 50W



65 kHz
Bobbin Transformer (23 mm thick)
Electrolytic Capacitors
 52 x 53.1 x 30.1 mm = 83 cc Case + pins

0.5 W/cc



400 kHz
Planar Transformer (8 mm thin)
No Electrolytic Caps
 82.2 x 39.0 x 10.5 mm = 34 cc Case

1.5 W/cc

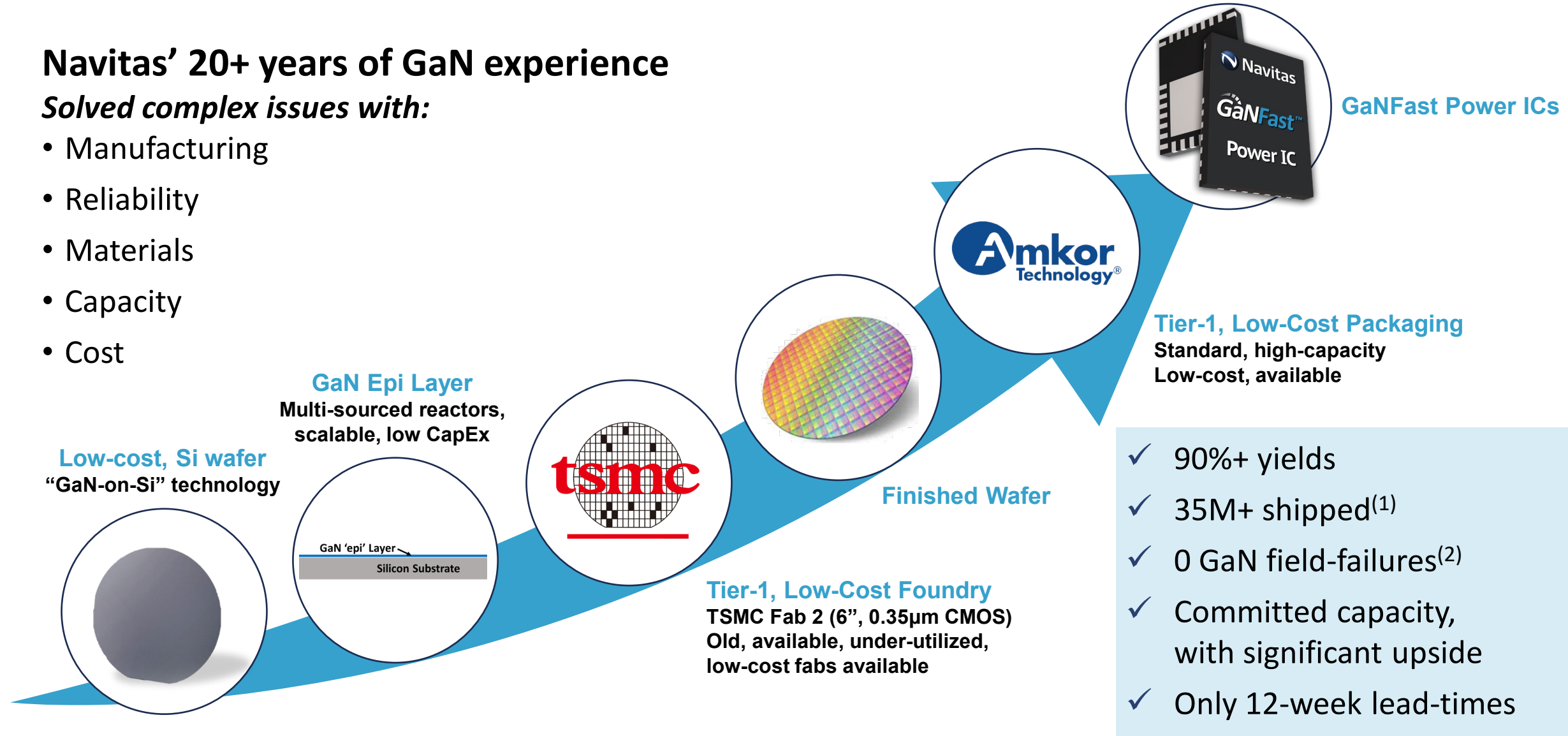
High-Volume, Low-Cost, High-Reliability Manufacturing



Navitas' 20+ years of GaN experience

Solved complex issues with:

- Manufacturing
- Reliability
- Materials
- Capacity
- Cost



- ✓ 90%+ yields
- ✓ 35M+ shipped⁽¹⁾
- ✓ 0 GaN field-failures⁽²⁾
- ✓ Committed capacity, with significant upside
- ✓ Only 12-week lead-times

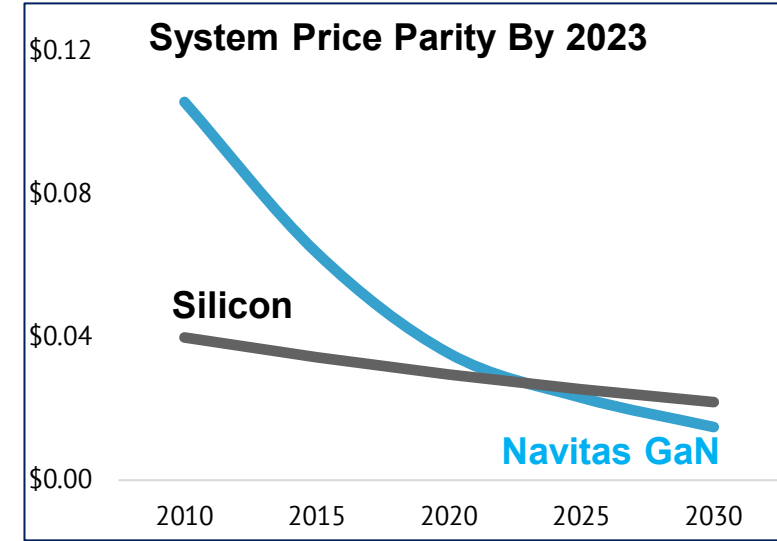
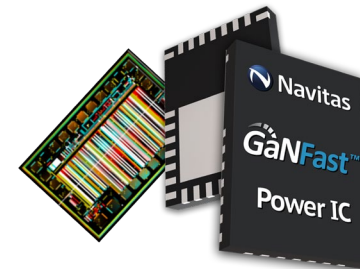
Multi-Year Lead in IP, Innovation: Driving Down System Cost



- Industry inventor and pioneer for GaN power ICs
- Proprietary AllGaN™ Process Design Kit (PDK)
- 130+ patents awarded or pending



- New generation every 10-12 months
- Gen 3 GaNSense™ in production
- Gen 4 sampled in Q4'21



- System cost parity in 2023
- 65W example

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

Tier 1 OEMs



Aftermarket Examples



160+

GaN Chargers In Mass Production

150+

GaN Chargers In Development (MP in 2022)

90%+

Mobile OEMs Designing With Navitas GaN ICs

35M+

GaN ICs Shipped⁽¹⁾

Zero

GaN Field-Failures⁽¹⁾

Post-IPO:



More Fast Chargers, More GaNFast IC Generations

Let's go GaNFast™

DELL

Navitas

mi xiaomi

Navitas Let's go GaNFast™

GaNFast™ with GaNSense™

120W

oppo 50W

Let's go GaNFast™

纳微 Navitas

700V/800V

GaNFast™ with GaNSense™

Navitas GaNFast™ Power IC

Navitas

ANKER

30W

Navitas GaNFast™ Power IC

Navitas

CES INNOVATION AWARDS

2022 HONOREE

Navitas GaNFast™ Power IC

Navitas

Beyond Chargers: Dynamic Expansion Markets

Efficiency, Size, Weight Drive Adoption

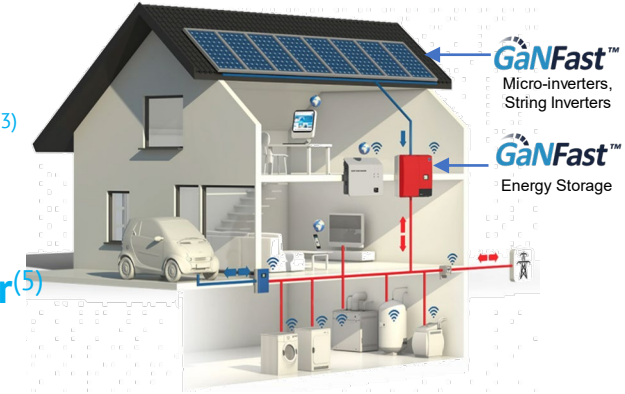
• Consumer

- 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⁾**

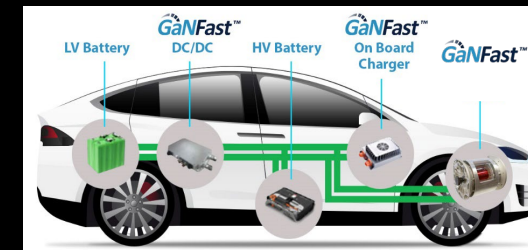
“GaN is a *breakthrough new technology*”

“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.*”



Post-IPO:



Accelerating Beyond Chargers

“Navitas Opens New Design Center Focused on Enabling GaN-based Data-Centers”
(Hangzhou, China Dec’21)



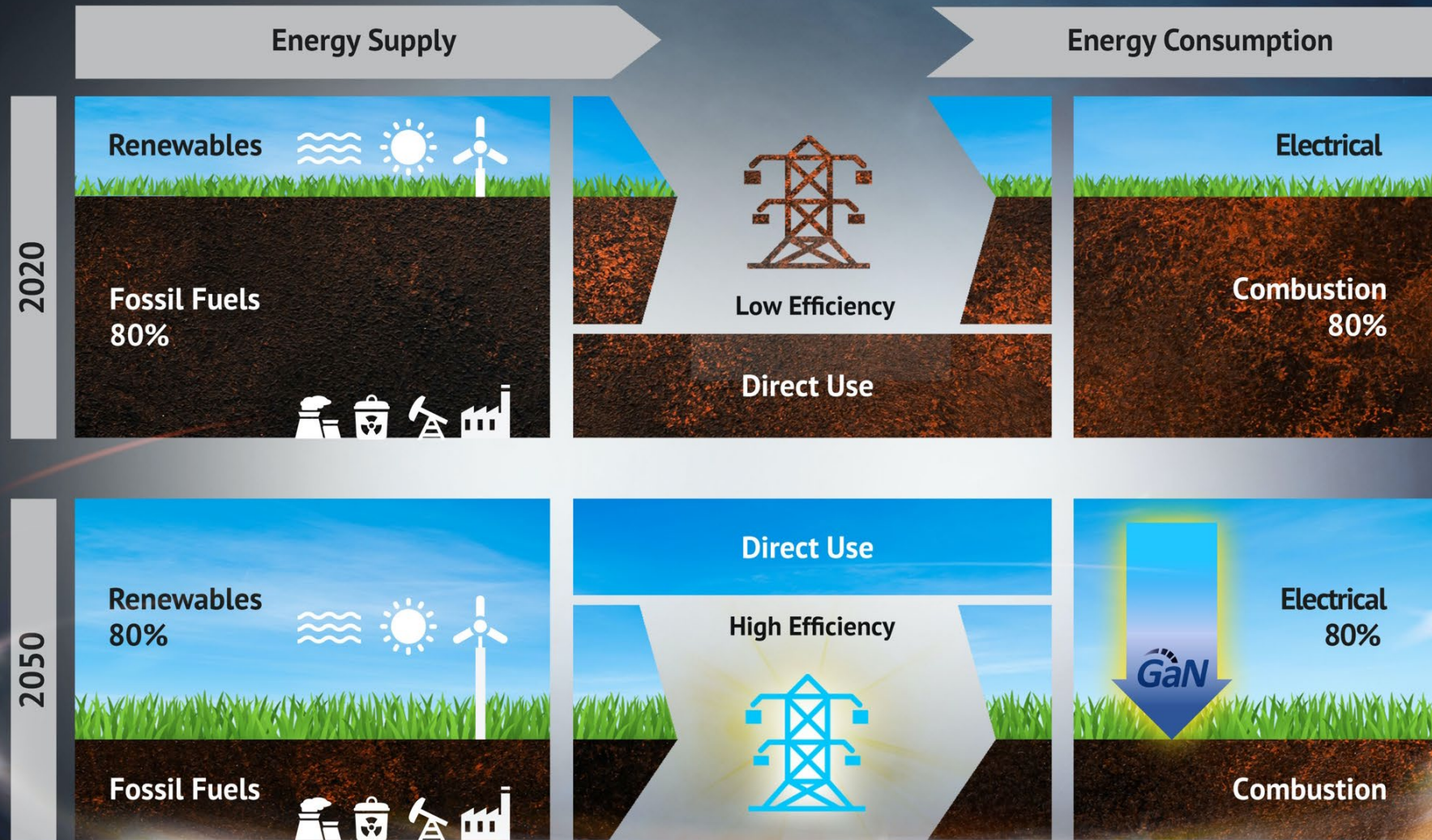
“Navitas Opens World’s First GaN IC Design Center Dedicated to Electric Vehicles (EV)”
(Shanghai, China January ‘22)

“Navitas Announces First-Time Availability of GaN power ICs for Data Center, Solar and EV Customers”
(December ‘21)



Over 40% of CES meetings with data center & EV customers
(Las Vegas, January ‘22)

Electrify Our World™



GaNFast is Green:

Accelerating Major Customers' NetZero Goals

GaN Power ICs Reduce CO₂ Emissions

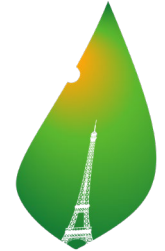
4x-10x lower component CO₂ footprint than silicon⁽¹⁾

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 addresses **2.6 Gton / year** by 2050⁽⁵⁾

Every
GaNFast™ power IC
shipped saves⁽³⁾
4 kg CO₂



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11



(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 and 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.

Thank You

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References to Slide 10 (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.