Supply Change

The invisible emissions of ICT supply chain

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AGENDA

Why Supply Change?

Current Status of Key Suppliers Decarbonisation Progress

Recommendation

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Why supply change?

- More than **70%** of emissions of global tech companies coming from supply chain
- **60%** of supply chain emissions from consuming fossil fuel powered electricity
- Emissions from the global semiconductor industry are skyrocketing.
  - Based on projected market size and existing climate commitments from semiconductor manufacturers, the semiconductor manufacturing industry is on track to consume 237 terawatt hours (TWh) of electricity globally in 2030, close to Australia's 2021 electricity consumption.

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Why supply change?

Company	Operations Decarbonization	Supply Chain Decarbonization
Apple	A+	B-
Google	A+	D
Microsoft	A-	D
HP	B	D
Amazon	C+	F
Dell	C+	F
Lenovo	C+	F
Sony	D+	F
LG Electronics	D+	F
Samsung Electronics	D+	F

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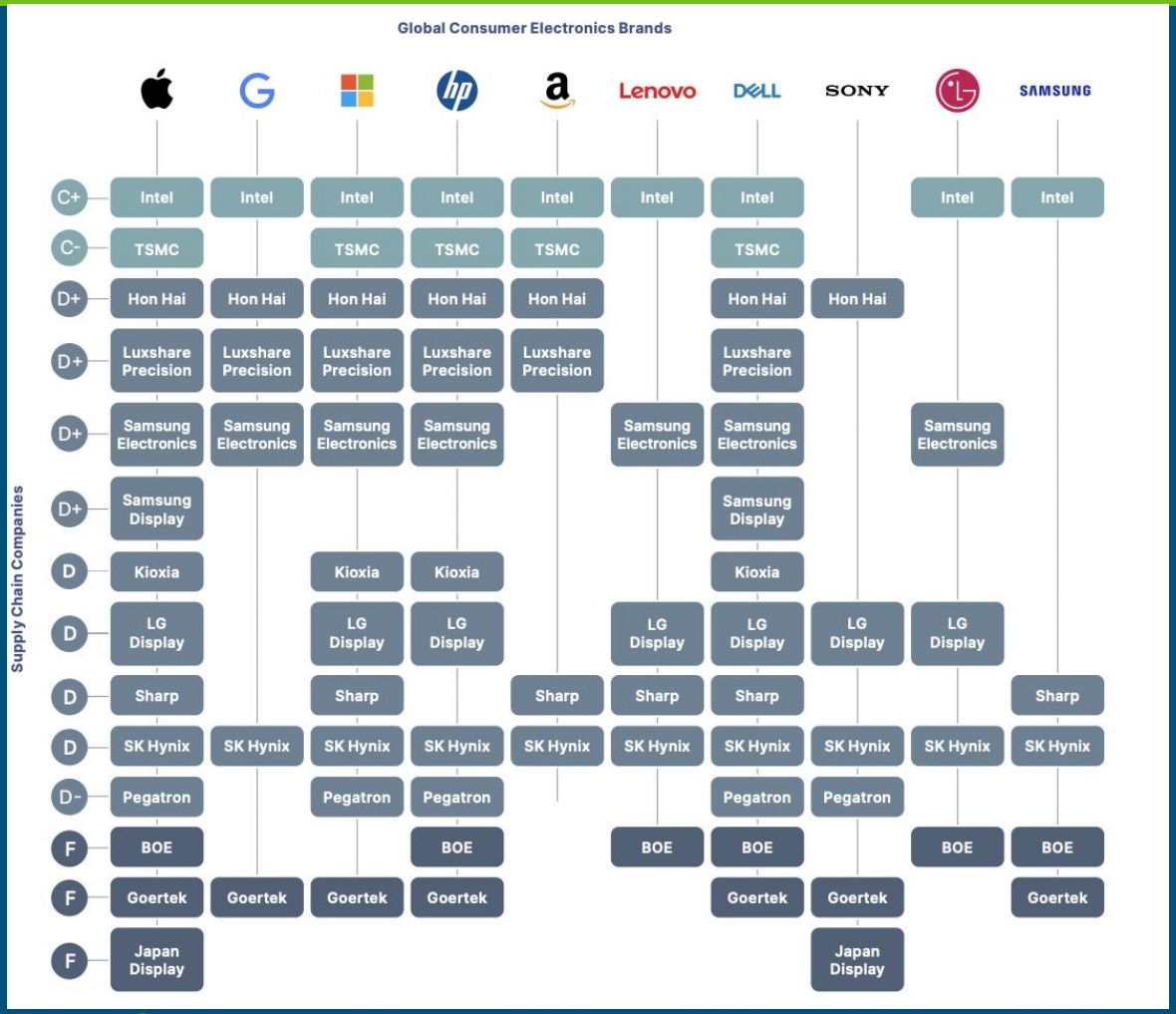
Current status of suppliers progress



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Current status of supply chain decarbonisation

- The median reported renewable energy usage rate for the 14 electronics suppliers is 5%.
- Since 2019, emissions from four of the world's biggest semiconductor manufacturers have increased.
  - Since 2019, emissions have increased from Samsung Electronics (26.1%), TSMC (17.5%), Intel (13.5%), and SK Hynix (11.7%), four of the world's top semiconductor manufacturers by revenue.

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Recommendation

- Consumer electronics brands need to target 100% renewable energy across the supply chain by 2030.
- Suppliers need to take responsibility to set up their own ambitious net zero or carbon neutrality targets and 100% renewable energy targets by 2030.
- Consumer electronics brands should actively engage with suppliers on renewable energy procurement and emission reduction

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Positive change through action

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