Transforming Power Delivery for the AI Era

VEIR

10X POWER | **10X <DISTANCE** | **10X <WEIGHT**

Near-zero resistive losses. VEIR Enables compact, efficient, scalable power delivery for next-gen AI infrastructure.

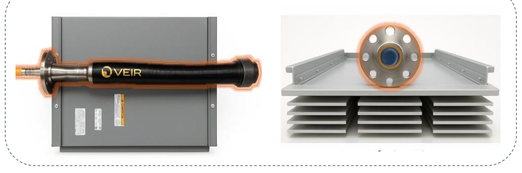
OCP FUTURE TECHNOLOGIES SYMPOSIUM | 2026

Bender Kutub, Product @ VEIR

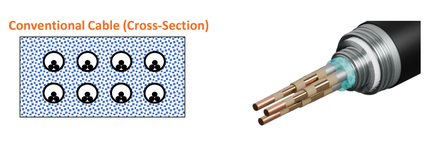
VEIR'S superconducting cables enable higher power in less space

*Superconductors operate with zero electrical resistance allowing **higher current***

SL Series



ST Series



SL Series: Low Voltage Solutions

SL eliminates congestion inside and leading to data centers; enables higher density IT layouts & retrofits

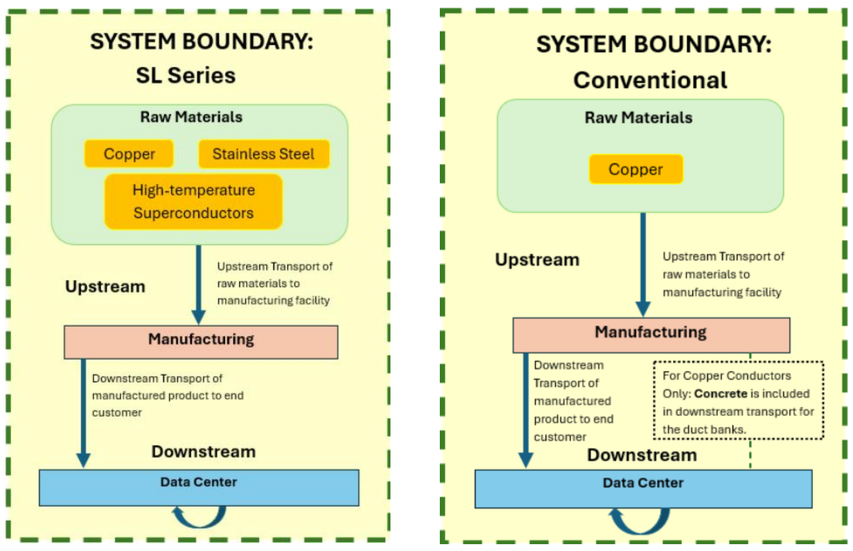
- 10X smaller, lighter compared to conventional cables
- Longer distance cable runs with lower voltage drop
- 800 VDC systems: **5/10/20 MW per cable**
- 480 VAC systems: **3 / 6 MW per cable**

ST Series: Medium Voltage Solutions

Optimized connections between buildings, storage, generation for efficient land use, higher reliability & resiliency

- **240 MW** per cable at 35kV
- Up to 40X improvement in power density
- Significant reduction in installation costs and time
- Reduces copper and concrete utilization on data center campuses

SL system boundary vs conventional copper conductors



Material & Emissions

- 25x less copper
- Eliminates duct-bank concrete
- Up to 23x lifecycle reduction

Scales with AI Growth

- Benefits increase with distance / size
- Solves LV bottleneck (100MW-GW)

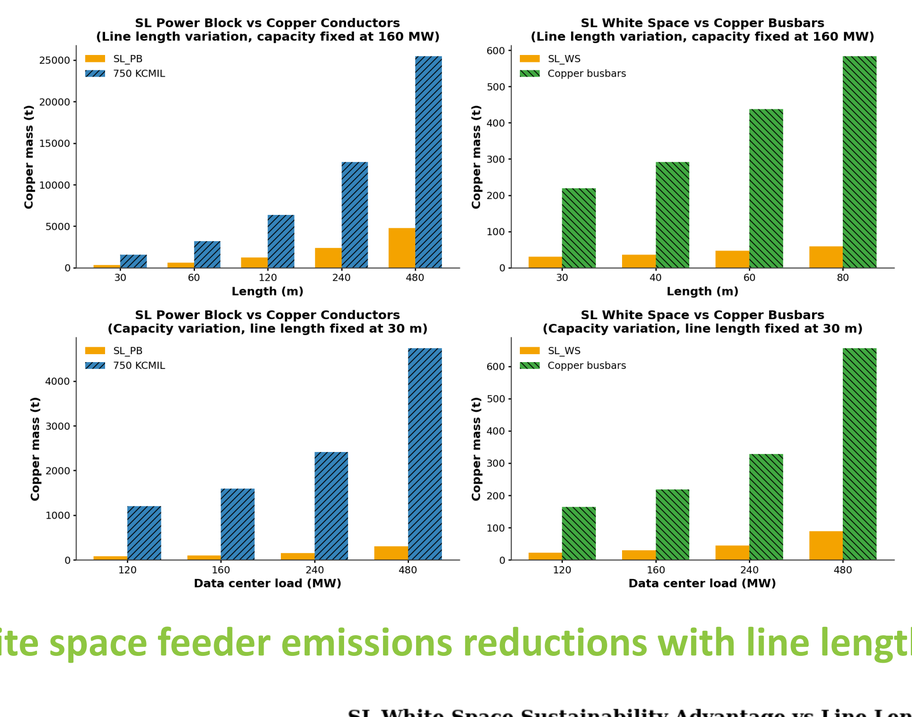
Structural Advantage

- Today: Copper scales > emissions explode
- VEIR: Stays material-light, stable

Performance & Economics

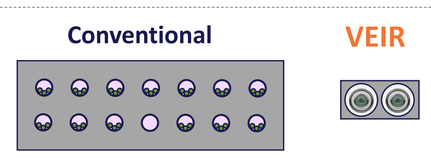
- Lower PUE
- No distance penalty
- Negative abatement cost

SL copper benefits scale with length and capacity across applications



SL series eliminates the need for emissions heavy concrete duct banks

SL HTS cables can be directly buried eliminating large concrete duct banks



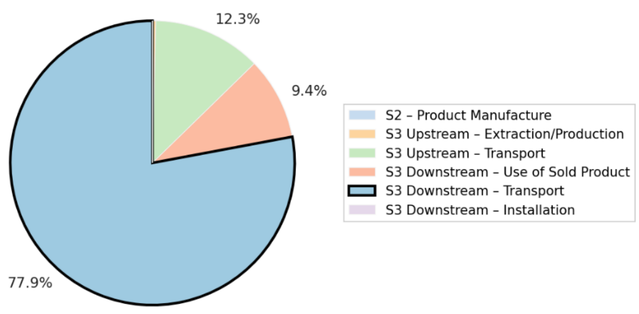
Emissions Breakdown
Conventional Copper Conductor + Concrete (480 m: 160 MW)

Material Efficiency

Duct banks for underground power block feeders are a major construction driver (long routing distances, multiple data halls, parallel LV feeders)

Duct bank construction can contribute 500 tons of concrete per MW of IT capacity

SL series eliminates the problem altogether



SL white space feeder emissions reductions with line length

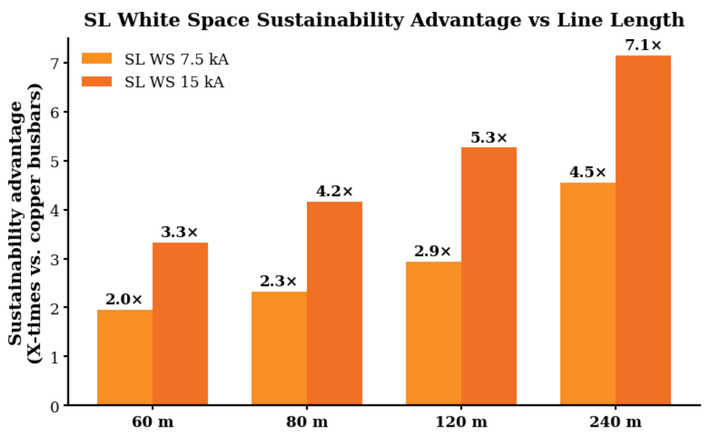
Lifecycle Emissions Savings

SL white space feeder's benefits increase with length and ampacity

Up to 7.1x lower total scope 2+3 emissions

Dominant emissions drivers

- Copper extraction
- Concrete transport
- Heavy construction logistics



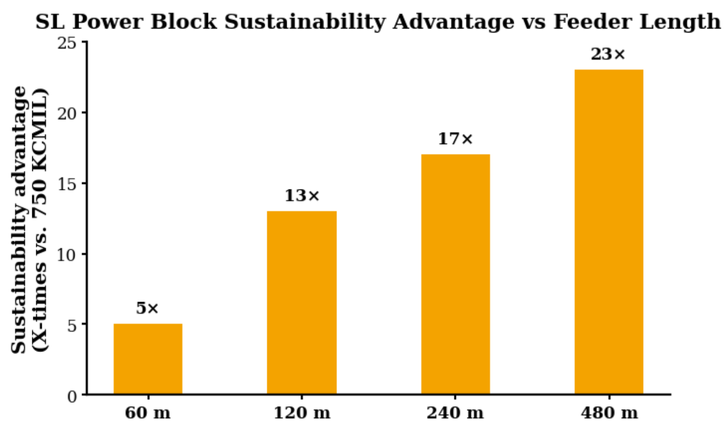
SL power block feeder emissions reductions with line length

Lifecycle Emissions Savings

SL power block feeder's benefits increase with line length

Up to 23× lower total Scope 2 + 3 emissions

Still ~17× less emissions as compared to low-carbon concrete



Read Our OCP Whitepaper • Contact Us @ veir.com/contact • Share Your Thoughts on Superconductors in Data Centers

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Leading the Future of AI.