

Critical Role of Power Electronics in Short and Long Duration Energy Storage Himamshu Prasad, VP Energy Storage Center of Excellence, Schneider Electric



Schneider Electric provides energy and automation digital solutions for efficiency and sustainability



Our purpose is to empower all to make the most of our energy and resources bridging progress and sustainability for all.

At Schneider, we call this Life Is Un



Digital + Electric = Sustainable

For Efficiency

For Decarbonization

Electricity

Green and Smart Energy



Schneider Electric Businesses



*Short Duration Storage - UPS





*Long Duration Storage - Residential



*Long Duration Storage - C&I



*Short: < 10 minutes Long > 1 Hr

Key Industry Needs – Power Electronics



Innovation Example – 1 Ph UPS



Smart-UPS VRLA



Smart-UPS SRT



Symmetra



- ~30-50% Reduced Weight
- 2-3X Power Density
- ✓ 2X Extended Battery Life



Smart-UPS Ultra 3kVA - 1U

Smart-UPS Ultra 5kVA – 2U



Smart-UPS Ultra Modular 5-20kVA

Life Is On

Schneider

Innovation in Power Electronics (WBG) and Battery (Li-ion) Technologies enabling Platform Simplification and Breakthrough Leadership Features





Our pledge

Carbon-neutral

in our operations by 2025

Net zero CO₂ emissions in our supply chain operations by 2050

⊘ Net zero CO₂ emissions

in our operations by 2030

✓ Carbon-neutral

on full end-to-end footprint (scope 1, 2, 3) by 2040

Net zero biodiversity loss
by 2030

