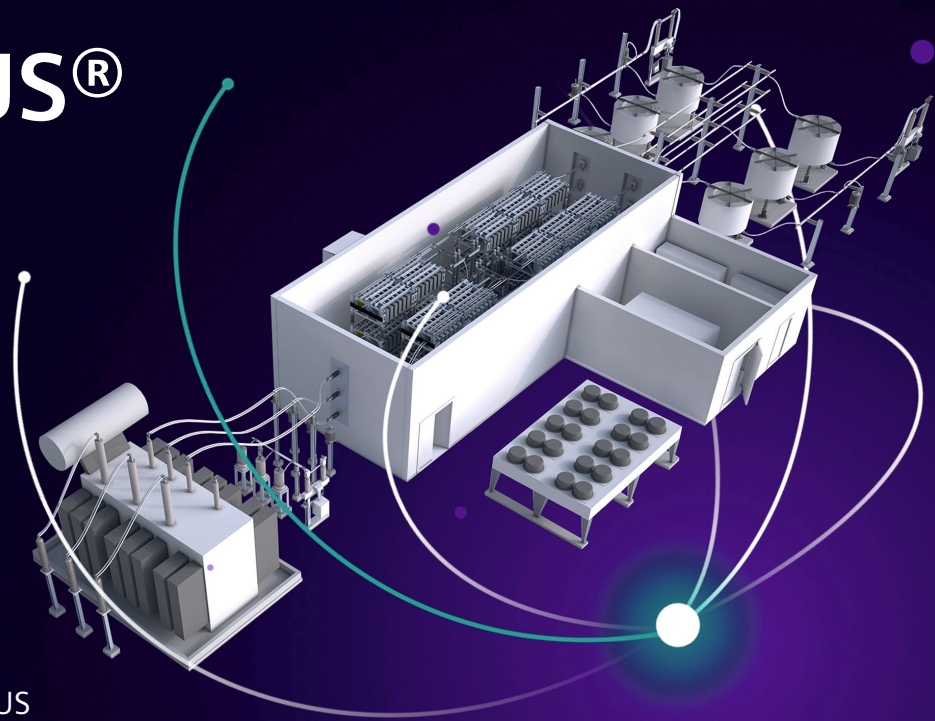







MVDC PLUS®

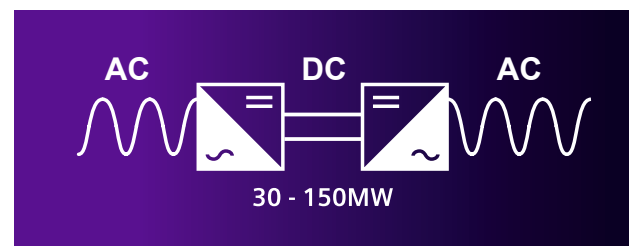
Medium Voltage Direct Current managing the future grid



[siemens-energy.com/MVDCPLUS](https://www.siemens-energy.com/MVDCPLUS)

Challenging climate goals, a growing number of volatile renewables and their integration confront networks with new tasks and new approaches to manage existing infrastructures. With the MVDC PLUS® you have the possibility to integrate the advantages of Direct Current in AC grids to enable load flow control.

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Connecting weak or unstable grids
 - ✓ Control load flow and provide reactive power
 - ✓ Decouple grids regardless of frequency, voltage and quality
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Bridge the distance
 - ✓ Install compact cost-efficient medium-voltage DC connections via cable or compact OHLs
 - ✓ CO₂ Reduction, e.g. by reducing diesel generators
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Increase power infeed
 - ✓ Enable greater power transfer in existing infrastructures
 - ✓ Improve grid stability with STATCOM functionality
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Reduce footprint
 - ✓ MV level allows lower lines below treetops
 - ✓ MV lines with smaller corridors and wood poles or simple structures
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Obtain transmission autonomy in power ranges up to 150MW
 - ✓ Establish direct MVDC transmission links and additional grid nodes



Abbreviations: AC Alternating Current, DC Direct Current, MV Medium Voltage, OHL Overheadline