

HVDC Centre Published Papers

Project	Paper Title	Year	Download Source
Developing Open-Source Converter Models	Detailed quantitative comparison of half-bridge modular multilevel converter modelling method	2018	https://strathprints.strath.ac.uk/63527/
Developing Open-Source Converter Models	Interoperability of different voltage source converter topologies in HVDC grids	2019	https://strathprints.strath.ac.uk/65998/ https://ieeexplore.ieee.org/document/8690252
Centre Innovation Research Outcomes	<i>Installation and interfacing HVDC control replicas at the national HVDC centre</i>	2019	https://ieeexplore.ieee.org/document/8690255
Centre Innovation Research Outcomes	<i>Multi Terminal Extension of Embedded Point to Point VSC HVDC Schemes</i>	2020	https://e-cigre.org/publication/SESSION2020_B4-120
Stability assessment and mitigation HVDC converter interactions	MMC Impedance Modelling and Interaction of Converters in Close Proximity	2020	https://pureportal.strath.ac.uk/files/112563148/Chen_etal_IEEE_JESTPE_2020 MMC impedance modelling and interaction of converters.pdf https://ieeexplore.ieee.org/document/9224850
Coordination of AC network protection during HVDC energisation	Coordination of AC protection settings during energisation of AC grid from a VSC HVDC interconnector	2020	https://www.hvdccentre.com/wp-content/uploads/2020/06/DPSP2020.pdf https://ieeexplore.ieee.org/document/9449443
PROMOTioN	<i>Multi-vendor interoperability tests of IEDs for HVDC grid protection</i>	2020	https://ieeexplore.ieee.org/abstract/document/9449342
PROMOTioN	<i>Demonstration of partially selective HVDC grid protection system with hardware-in-the-loop IEDs</i>	2020	https://ieeexplore.ieee.org/document/9449341
PROMOTioN	<i>Demonstration of Multi-vendor Protection Systems for Multiterminal VSC-HVDC Networks</i>	2021	https://ieeexplore.ieee.org/document/9494842 https://lirias.kuleuven.be/retrieve/624942
Improving Grid Code for HVDC schemes	<i>Impact of Grid Strength on HVDC Connection Requirements</i>	2021	https://ieeexplore.ieee.org/document/9479279 http://orca.cf.ac.uk/140841/1/OR-13-0548.pdf

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Evaluation of HVDC with Synchronous Condenser: Impact on AC Protection	<i>Impact of system strength and HVDC control strategies on distance protection performance</i>	2021	https://ieeexplore.ieee.org/document/9582988 https://pure.strath.ac.uk/ws/portalfiles/portal/130511552/Liu_etal_I_CRP2020_Impact_of_system_strength_and_HVDC_control_strategies_on_distance.pdf
Evaluation of HVDC with Synchronous Condenser: Impact on AC Protection	<i>A flexible real time network model for evaluating HVDC systems' impact on AC protection performance</i>	2021	https://ieeexplore.ieee.org/document/9583147 https://strathprints.strath.ac.uk/74755/