

## APPLICABILITY OF DROOPS IN LOW VOLTAGE GRIDS

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### ABSTRACT

Remote electrification with island supply systems, the increasing acceptance of the microgrids concept and the penetration of the interconnected grid with distributed energy resources and renewable energy resources require the application of inverters and the development of new control algorithms. One promising approach is the implementation of conventional  $f/U$ -droops into the respective inverters, thus down scaling the conventional grid control concept to the low voltage grid. Despite contradicting line parameters, the applicability of this proceeding is outlined and the boundary conditions are derived.