

## A CONTROL OF MEDIUM VOLTAGE POWER NETWORKS WITH ENERGY STORAGE

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**ABSTRACT** *Since the last turn of the century, the image of medium-voltage power networks operations has changed. The main reason for the change was to enable the generation units connection to it as a distributed generation. The current problem is the possibility of connecting energy stores. The article gives an example of the use of energy storage in the electric distribution network that operates with the generation unit as distributed generation. The simplified case analysis results in preliminary design algorithms for medium voltage power grid control with energy storages.*

**Keywords:** *distributed generation, energy storage, operation states of medium voltage network*