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SOME ASPECTS ON THE VOLTAGE LEVEL IN THE LOW VOLTAGE NETWORK ON THE LOSSES IN THE MEDIUM VOLTAGE NETWORK

ABSTRACT

The change of the rated voltage in low voltage networks from 220/380 V to 230/400 V is a complicate problem. It needs years and a lot of efforts to be solved everywhere in the country. To make the solution with less negative effects, not only for the consumers but also for the power utility, it is necessary to take corresponding actions on time. One of the actions is earlier to start with installations of transformers medium/low voltage having rated secondary voltage equal to 420 V. That helps to solve the voltage problem more rational but also to reduce power losses in the network. It is also shown that operation with low voltage higher than rated contributes to increase losses in the supply network.