

Reference: **844**



Type:

Technical Brochures

Title:

Feasibility study for assessment of lab losses measurement of VSC valves

Technical Brochure 844 starts with a general description of losses in VSC HVDC converter valves, the origins of different losses in components, the dependency of the losses on different operating modes, as well as special aspects of different designs. This is followed by a summary of the current practice for valve losses determination, including the modelling of the semiconductor parameters and then by a discussion on how the transparency of the overall calculation process can be enhanced. As the main study results of the WG B4.75, an evaluation of the existing methods to measure losses is provided. This is complemented by an overview of the operation conditions and additional aspects for losses measurement (such as commercial aspects) that need to be taken into account. In the last part, the results are summarized and recommendations for application of losses measurement are given, which can be used as guidance for the introduction of losses measurements in the operational type tests of VSC valves.

More Informations :**File Size:**3,7 MB **Pages NB:**60 **Study Committee :** B4 **WG (TF):**WG B4.75 **Year:**2021
