

793 – How can digital switchgear contribute to the energy transmission strategy?

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Abstract: Operator of switchgear in industrial plants look forward to becoming digital capable and unlock the values by digitalizing to increase safety, availability and further reduce the annual operational costs. Another challenge that the industry is currently facing is a shortage on qualified maintenance reliability engineers. In electrical systems, that contain low-voltage and air- or gas-insulated medium-voltage equipment, beside of measuring electrical parameter using sensors rather than conventional types, it is also the way condition data are collected and analyzed right in the switch room that support operator to eliminate risk tasks, reduce the need to enter switch rooms and shift to predictive maintenance. This transformation takes place with minimum interruption of plant and processes. The paper presents solutions from sensing and measuring of electrical or mechanical data to Edge or Cloud computing solutions. It delivers and insight from a real use case and explains the process of defining requirements for switchgear condition monitoring and explains how it becomes possible to implement predictive maintenance to reduce total cost of ownership.