



# UPDATE ON ONE-LINE DIAGRAMS

# UPDATE ON ONE-LINE DIAGRAMS FOR INDUSTRIAL SYSTEMS

## PURPOSE

Represent with adequate detail the elements of the plant's electrical system so that users and operators can consult accurate information, carry out operations or carry out work safely.

## ELEMENT REPRESENTATION

One-line diagrams represent electrical elements of the system that are of greater importance for users and for practical requirements, maneuvers and/or development of electrical studies.



## BENEFITS

### PEOPLE'S SAFETY

The personnel in charge of the electrical system in a plant must know how each circuit of the system is made up, for example the loads that power each circuit breaker, so that they can carry out the work safely.

### CONTINUITY IN THE OPERATION OF THE ELECTRICAL SYSTEM

Keeping one-line diagrams updated increases the reliability of the operation, since it allows to analyze the behavior of the fault detection systems in a precise way to take the respective actions to correct and restore faulty circuits.

### GRID CODE REQUIREMENTS

One-line diagrams are a required engineering document as part of compliance with mandatory technical regulations such as Grid Code. In such a way that when there is an audit by the external authority, single-line diagrams will be used to audit the electrical system.

### DEVELOPMENT OF ELECTRICAL ENGINEERING STUDIES

It is the basis for developing standard electrical engineering studies for the industry, such as: **short circuit, protection coordination, arc flash, load flows, power factor correction and harmonic pollution control.**



“Committed to the safety of the people, equipment protection, and production continuity.”

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