



South Asia

Add value.  
Inspire trust.

## Integrated commissioning services

Ensure timely completion, delivery and synchronisation of your project control over your entire supply chain

### Your challenges

To predict the desired outcome of project during commissioning stage is a big challenge for owners and operators. The performance of operations of the project is key to achieve financial success. Owners and operators need to ensure that the project reaches its guaranteed operability for all important and critical factors like performance, safety, traceability, reliability and quality. So many vendors are involved in a project, when it goes to the commissioning stage, all the multiple equipment, systems and controls come together to operate in a synchronised manner. Any lapse in quality and reliability can prove to be detrimental for the startup of the project.

The operating costs can rapidly escalate if the vendors do not meet the contractual conditions and this results in a delay in commissioning of line or sub-station. In order to achieve a successful startup and sustained operation, it's important to deploy the right professional experts to do pre-commissioning check, supervise the project commissioning, delivery and synchronisation.

### Why are commissioning services important?

The secured, planned and systematic handover of a transmission line or sub-station from the constructor to the owner or operator is called the commissioning stage of a project. Important tests like pre-commissioning checks, performance test and final acceptance test along with commissioning supervision provides a means for owners and operators to attain maximum efficiency and reduce operating costs. It helps identify any shortfalls in the efficiency and capacity of the transmission lines and sub-station and suggests recommendations for recovery. It helps to minimise risk of equipment and system failure and boosts productivity. These tests ensure that your operating costs are optimised, and the productivity continues in an unhampered manner as the risk of unplanned shutdown is mitigated.



## How can we help you?

TÜV SÜD is the leading provider of technical services for final acceptance test, performance test and supervision for a project in commissioning stage. We supervise and witness pre-commissioning and commissioning test. We offer independent execution and third-party supervision of performance testing for all substation components, transmission line assets like insulators, conductors and earth wires, tower and structures. We also ensure that ROW is clear and all your contractual conditions are met by your vendors and there is no delay in the startup and synchronisation of the plant. This helps to reduce unplanned and expensive downtime of transmission line due to equipment or system failure. We implement a comprehensive suite of digital and practical solutions with the help of our experienced experts to ensure that you have a hassle-free and seamless project startup.

## Our services

**Site acceptance test** – TÜV SÜD carries out independent evaluation of Site Acceptance Test (SAT) during the commissioning phase to demonstrate completion of the plant, as well as correctness and high quality of work. This involves review of design, labelling of equipment, visual inspection of the facility and pre-commissioning checks. The results of the SAT are then presented in a detailed report.

**Performance guarantee test** – TÜV SÜD reviews test procedures and programmes for verification of contractual guarantees, executes acceptance tests and measurements in compliance with the requirements of international codes and standards for substation. We also witness various test like insulator resistance test, conductor continuity test, phase sequence and earth resistance test. Our reports on test measurements include statements concerning the fulfilment of guarantees.

**Commissioning supervision** – Our experts are deployed to supervise commissioning activity at site and to ensure all equipment, systems and controls are synchronised properly. Our experts ensure trouble free energisation of the equipment.

**Pre-commissioning checks** – Our transmission field experts do complete pre commissioning checks like review of commissioning and safety procedure, Inspection of right of way, tower and tower accessories, hardware fittings, insulators and earth wire, conductors, aviation warning signal etc.

## Your business benefits

**Work with an expert partner** – through systematic involvement of our experienced teams with specialised technical support of plant performance issues

**Improve safety** – and ensure productivity with the help of our digitally driven tools and experts that help you to commission your project within the stipulated timeline

**Synchronise your project** – by ensuring that your systems, equipment and controls are inter connected and work cohesively without the risk of shut downs

**Ensure trouble free start up** – with our multidiscipline commissioning experts

**Seamless system integration** – of critical applications and equipment ensures that the risk of accidents and delays are mitigated

## Add value. Inspire trust.

TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. It specialises in testing, certification, auditing and advisory services. Through more than 25,000 employees across over 1,000 locations, it adds value to its customers, inspiring trust in a physical and digital world.

## Related services

TÜV SÜD provides the following related services:

- Field quality service / Field safety service
- Store audit
- Substation audit
- O&M supervision
- Procurement inspection