Smart Connector is the most innovative solution to prevent critical problems and blackouts in the substations

This new concept of intelligent connector is aligned with the trends of digital substations and predictive maintenance.

SMARTCONNECTORS FOR SMARTGRIDS

Advantages of SmartConnector

- Ollect data from the high-voltage substation in real-time.
- Ease predictive maintenance.
- Identify weak connections and poor electrical connections.
- Alarm in advance in case of premature degradation.
- Optimize the efficiency of the substation.
- Determine the expected lifetime of the electrical component in real time.
- Parameters measured include temperature, current, vibration and contact resistance.
- Improve reliability
- Minimize unscheduled power outages

SBI CONNECTORS in collaboration with the UPC University (Polytechnic University of Catalonia) has developed the Smart Connector which is based in the incorporation of sensors on High Voltage connectors for substation that allow getting specific data like temperature, vibration or current in real time using an energy harvesting system to be transferred through Bluetooth or other communication systems to the control center of the substation.





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SMART CONNECTOR



Save our data in your tablet or smartphone by scanning this QR code!





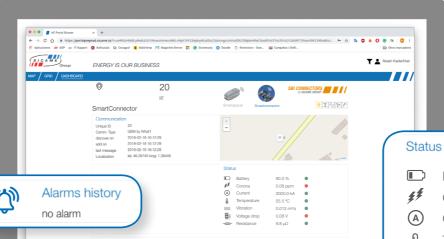
SMART CONNECTOR

Intended for next generation substation like Smart Substation and Digital Substation.



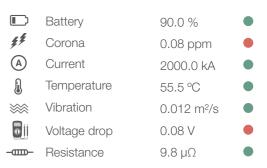
TECHNOLOGIES INVOLVED

- Cloud Computing
- Big Data
- Energy Harvesting
- Power Management
- ✓ Low powered small sized electronics



Through the IoT platform, control parameters such as current, vibration, temperature or voltage can be monitored.

If the parameters are out of stablished values, warning alarms can be set and inform about incorrect functioning or the need of maintenance to avoid further blackouts.







ANTENNAS



LORA

SERVIDOR

DATA CABLE (INTERNET)



TREATMENT OF DATA