Utility communications
In-plant communications solutions

Reliable and secure
In a utility environment, energy is generated in power plants which are connected to the grid system via substations. These power plants and substations need to operate with extremely high availability, and also need to be reconnected to the system very quickly and smoothly after an incident. These requirements call for communication systems with special features.

High availability in the communication links between power plants and substations is achieved by sophisticated hardware protection or redundant transmission paths (e.g. teleprotection transmitted over an SDH system and, as a backup, over PLC). ABB, with its knowledge of various systems, as well as of the overall utility environment, ensures that the objective of secure and reliable communication is achieved.

Integrated communication solutions
A communication network is not only required to ensure smooth operation for an electrical grid (transmission), but also for the internal communications in power plants, substations and other premises (in-plant). Telephone systems, public address and paging systems assure access control, and other systems are key supports to increase security.

After an incident, all these systems support recovery to normal operation. The system specifications must include adequate facilities for this crucial function.

ABB: the complete solution
ABB, as one of the world leaders in solutions for the demanding requirements of electrical companies, has many years experience in the field of utility communication. With installations in more than 120 countries, ABB provides complete solutions for transmission and in-plant communication, ensuring high performance and full integration of the different subsystems.

ABB utility communications cover all the needs of the electrical sector: from power plant internal communication, to transmission and distribution grids, substations, and control center external communications.
Solutions
- Fiber-optic systems
- Power Line Carrier
- Telephone exchanges
- Data networks
- CCTV systems
- Paging systems
- Public address
- Access control / intruder detection
- Radio mobile
- Radio microwave

Applications
- Power system control
- Power line protection
- Operational telephony
- LAN interconnections
- Video surveillance
- Staff location
- Premises access control
- Power plant control and supervision - local / remote
- Distribution automation

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