Utility Communications, Australia

Customer:
Western Power, Perth (Australia)

Customer need
- Transmission of voice, SCADA and protection signals through-out the 220kV transmission line on the West Coast
- Proven reliable power line carrier system for back up of communication

ABB response
- Supply and commissioning of ETL600 & NSD600 system for transmission of protection commands, data and voice

Customer benefits
- Most reliable teleprotection and data transmission for worst case scenarios
- Years of proven back up to MW system
Utility Communications, China

Customer need
- Reliable communication network for teleprotection
- Providing a communication channels for both: Differential Relay and Distance Relay
- Redundant communication 1+1

ABB response
- Build FOX515 teleprotection network
- Create 1+1 communication channels
- FOXMAN Network Management System

Customer benefits
- High reliable teleprotection communication links
- Easy to monitor and manage
- Reduced management and maintenance cost

Customer: Tianjin EPC
Tianjin Energy Resources Ltd

References by regions
- Transmission
- Distribution
- In Plant
- Communication
- Railways
- Oil & Gas
- Smart Grids
Utility Communications, Hong Kong, China

Customer need
- Analogue and digital transmission of protection signals throughout the Hong Kong Power Network of 400kV and 132kV
- Distance Protection Acceleration (DPA) and High Speed Inter-tripping (HIS) teleprotection schemes

ABB response
- Design, engineer, manufacture and supply of more than 1,000 NSD570 protection signaling equipment

Customer benefits
- Fast, secure and reliable teleprotection signaling to secure the power transmission and distribution throughout the city of Hong Kong

Customer: CLP
China Light & Power, Hong Kong
Utility Communications, India

Customer:
Reliance Energy, Mumbai

Customer need
- Private energy supplier with need for reliable operation in order to assure financial results

ABB response
- FOX-platform for the network in Mumbai

Customer benefits
- Reliable communication for SCADA
- Redundant system for metro application
- Advanced Management system
- Made for harsh environment
Utility Communications, Viramgam-Chaksu

Customer need
- Covering of all end, pump and valve stations along a pipeline

ABB response
- Integrated systems including PABX, fiber optical, radio and network management system
- LAN, Voice, Data, SCADA for operation and administrative services

Customer benefits
- Reliable and integrated communication networks covering all the main stations of the pipeline and for all the different needs of the company
Customer: PLN
Perusahaan Listrik Negara

Customer need
- Transmission of Voice, SCADA data and protection signals throughout the Java 500kV Transmission network
- SDH Optical Fiber transmission STM-4
- Power Line Carrier system

ABB response
- FOX515 & ETL600 & NSD600 system for highly reliable transmission of protection commands, data and voice

Customer benefits
- Most advanced and reliable communication system to control and secure power transmission
Utility Communications, Philippines

Customer: NGCP
National Grid Company of the Philippines

Customer need
- Need for reliable communications
- Network was inadequate to supply uninterrupted communications
- Increase in communications demand

ABB response
- General contracting, engineering and project management from ABB covering full product portfolio; SDH, Radio, PLC, teleprotection

Customer benefits
- Ensures the supply of electricity to NPC’s customers
- Generates revenues for NPC simplified maintenance
Utility Communications, Singapore

Customer need
- Transmission of protection signals through-out the power network of Singapore
- Fully fault tolerant

ABB response
- 300 NSD-equipment for highly reliable transmission of protection commands
- 100 FOX-multiplexers for multi-service provisioning: Voice, data and protection signals

Customer benefits
- Ensures most reliable supply of electricity to PG's customers.
- Avoiding penalties from regulator
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