



## AN EFFECTIVE WAY OF RECONDUCTING A TRANSMISSION LINE

### CONTEXT

The National Electricity Administration (ANDE) has carried out a project aiming to change the conductors on two transmission lines in Paraguay to increase the power capacity.

SBB, the worldwide leader supplier of Emergency Restoration Systems (ERS), was contacted by ANDE to suggest a cost-effective system that will improve the reconducting work with minimum shutdown.

### CHALLENGE

The electricity company was facing many installation challenges, such as:

- Interrupting the electricity service was not feasible.
- The outage window was too narrow to run the jobs efficiently.

### SOLUTIONS

SBB experts worked closely with ANDE to offer the best solution for their needs.

The ERS team has prepared bypass plans and based the type and the quantity of the proposed towers on those plans.\*

\*See picture 1 for the double-circuit bypass plan.

# ANDE-PARAGUAY



## CONTACT US



10, rue Émilien Marcoux,  
J7C 0B5 Blainville (QC), Canada



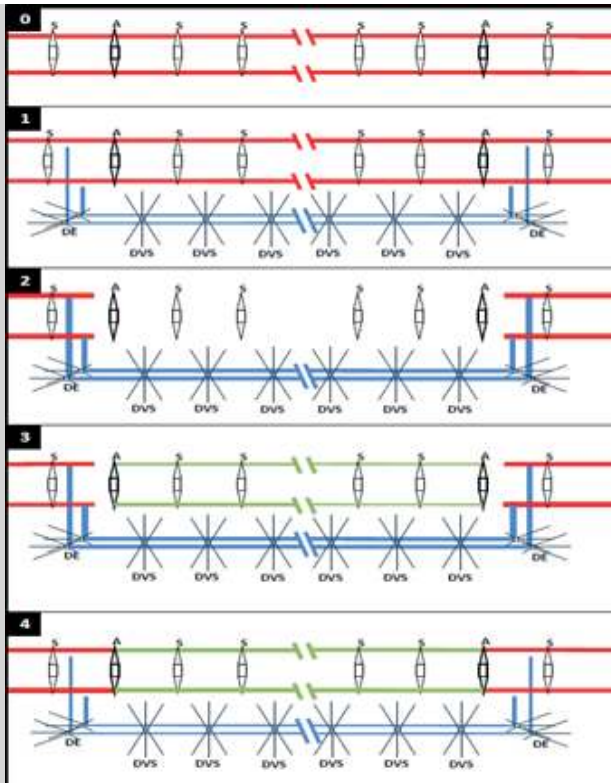
+ 1 450 970-3055



www.sbb.ca



info@sbb.ca



Picture 1. Suggested Bypass plan for the double circuit 220kV line



To cover a total bypass of 30km on two different 220kV lines, SBB designed three different configurations and offered two lots of 79 ERS towers in total.

ANDE acquired the SBB towers and carried out the work by sections of 10km on the single circuit line and by sections of 20km on the double circuit line to successfully complete a total of 80km bypass.

## ADVANTAGES

Some advantages that have distinguished SBB ERS towers are:

### Time to stay installed:

Each stretch of the bypass was installed and remained for six months. The client has chosen SBB ERS towers for their reliability and strength compared to other towers.

The bypass made with SBB towers supported high winds and other challenging weather conditions for six months without any problem.

### Facility of transport and installation:

Some locations had flooded soils, and transportation from the highway was made with small vehicles.

The SBB's small and light components allowed easy and fast transport.

Additionally, the installation of SBB towers was made section by section by hand, without equipment, which is not feasible with other types of towers.