

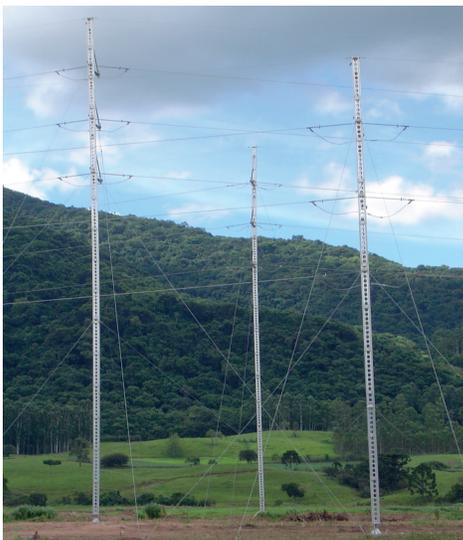
**CANDELARIA**  
**BRAZIL**

# FLOODING IN CANDELARIA



## THE SITUATION

The river running through the small city of Candelaria had flooded. Located in the Brazilian southern state of Rio Grande do Sul, three 230kV power lines run across that river. The water levels rose dramatically and the shear force of the water flow pulled out the trees. The branches caught onto the lines and pulled down 14 towers. The towers closer to the river completely disappeared.



## THE SOLUTION

The utility company, CEEE, had acquired 3 sets of ERS towers for situations like this. They have received the field and software trainings required to give them a good knowledge base for the system. During this crisis, they were put to the test. Since they had bought the ERS towers in fully arranged containers, they were able to quickly and efficiently mobilize the material to the site.

3 teams and 9 ERS towers were put up and within one week of work they were capable of restoring the power lines. The secret to lower power shutdown time is the efficiency of the system and minimal assembly downtime. All the tools and components are available in the containers and easy to access and deploy because of the container storage system (CSS).

## THE PROCESS



1

A first response team reaches the site early to assess the issue and plan for the emergency restoration.



2

A second team of three arrives on scene to layout the anchor positions set out by the engineers via software and technical drawings.



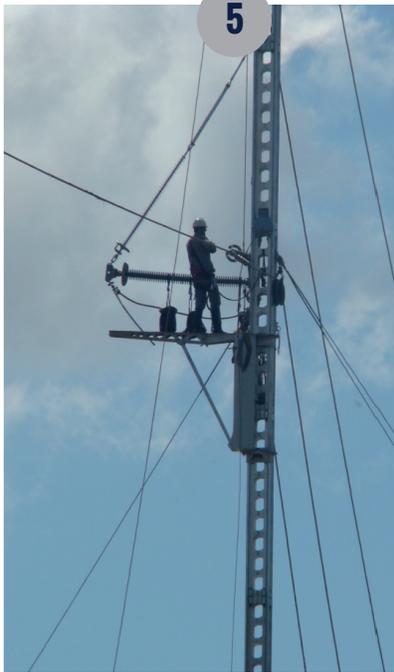
3

In the meantime the assembly team gets their instructions regarding which containers and items to bring to site.



4

The ERS tower components arrive onsite and the material is deployed to be assembled. No heavy machinery is necessary.



5

Once the towers are complete the stringing process begins and new conductors are strung to the ERS towers.



6

A quick clean up and all 9 towers were energized within a week thanks to the good training of the linemen and the efficiency of the ERS system.

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