

Vineyards: Use of Aerial Technology to Power Brazilian Grid



In 2010, the Brazilian Government's Energy Planning studies pointed out the need for structural works to follow the growth of the market in the State of Rio Grande do Sul. In 2017, Sterlite Power was chosen to build its second project in Brazil - the Vineyards.

THE CHALLENGES

One of the main challenges of the Vineyards project was crossing of the Taquari River, 368 meters wide, in an area of environmental protection.

For the execution of this crossing it was necessary to execute special foundations, supply of transmission towers 33 meters high with high foundations to support the floods of the river.

WHAT WE DID

The crossing was carried out using drones to carry a guide cable that later pulled the conductor cables.

For the exception of the crossing it was necessary to acquire the approval of the Brazilian Navy, which accompanied all activities.

Achievements

The Vineyards project was our second project in Brazil and Element 1 was delivered 31 months before the regulatory date and generated more than 500 direct and indirect jobs.

The project was a pioneer for us, with the use of cable launch techniques via drone, which allowed the effective reduction in launch time, operation costs, environmental impact and mainly in the mitigation of accident risks.