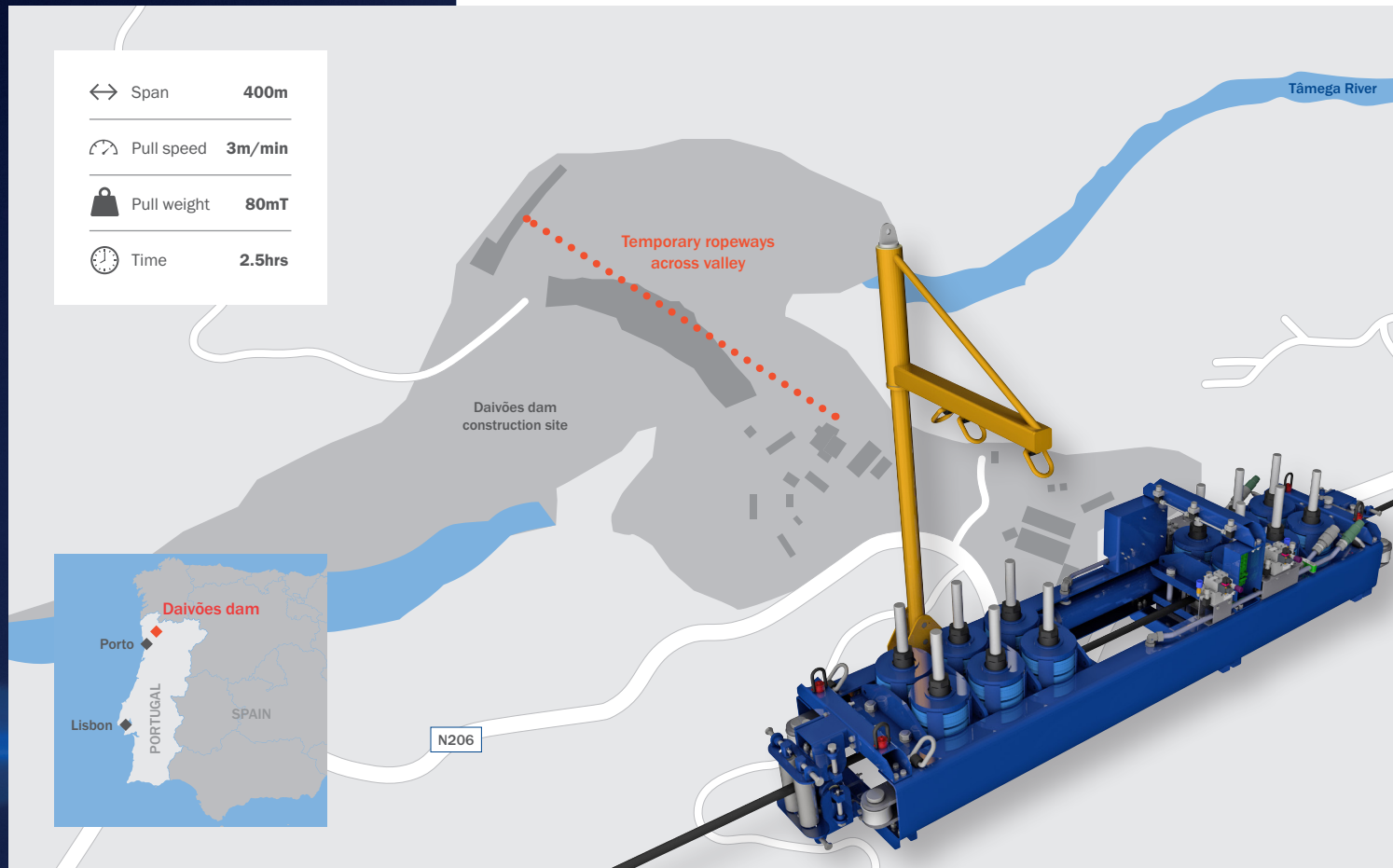


Case study

Client Leitner Ropeways
Project Daivões dam
Location Tâmega River, Portugal

Custom-built linear winch and on-site support saves time and lowers costs for Leitner Ropeways



The challenge

The Tâmega River hydropower complex is being developed in northern Portugal by Iberdrola.

As part of the complex, the Daivões power station will be served by the 77m high and 264m long Daivões dam feeding two turbines with a combined installed power of 114MW and a production of 142GWh. There will also be an additional 4MW turbine that will add 17GWh to the power station's output.

Innovo was asked by Leitner Ropeways to supply a linear winch for the installation and recovery of four temporary ropeways at the Daivões dam construction site. The ropeways are used to transport sand, gravel, stones, concrete, cement and asphalt across the 400m span of the Tâmega River valley.

Following supply of the linear winch, Innovo was subsequently invited to assist Leitner personnel with on-site testing and training.

The solution

Innovo designed and built a linear winch capable of pulling up to 80mT at a speed of 3m/min. Our design met Leitner's specifications

Our custom-built linear winch is designed and built for the installation and recovery of ropeways used to transport loose material across the Tâmega River valley.

Continued overleaf... ▶

INNOVO®

i.e. a maximum width of 900mm, an approximate length of 4000mm, and a maximum weight of 2500kg for each sub-component (for ease of transport via helicopter).

Following supply of the linear winch, our experts provided full training on-site, enabling Leitner's personnel to install, operate, maintain and demobilise the linear winch. In addition, we performed tests in full power conditions, at maximum speed and maximum force on both pull and release.

The result

The test results demonstrated that the installation and recovery of all ropes across the valley was performed by the linear winch at a medium pulling / release speed of 3m/min.

The entire stroke of each rope through the valley took around 2.5 hours enabling Leitner to make significant time savings and lower costs.

Installation of the linear winch at the Daivões dam construction site.



Do you have an engineering challenge?

Innovo is an engineering, construction and equipment rental company.

We support the renewables, communications, offshore energy, and marine industries worldwide with custom-designed and rental products including jack-up systems, modular pontoons, cable laying equipment, and engineering solutions onshore, offshore and subsea.

For more information please visit innovoteam.com or email info@innovoteam.com



INNOVO®

www.innovoteam.com