



# INCREASING SUSTAINABLE ENERGY WITH EFCO INNOVATIVE FORMWORK

Ayolas - Paraguay

1.5 Minute Read Time

## EXPANSION OF THE YACYRETÁ HYDROELECTRIC PLANT

The Yacyretá Binational Entity is currently constructing the expansion of the Yacyretá hydroelectric plant, which will generate clean, renewable, and sustainable energy. The Aña Cuá expansion project is expected to increase the plant's power by 9% and further utilize the hydroelectric potential of the Aña Cuá arm.

## GENERATING JOB OPPORTUNITIES

Managed by Consorcio Aña Cuá ART, the undertaking is set to create a minimum of 3,000 job opportunities and help stimulate the economies of both Ayolas and Ituzaingó. Despite unforeseen delays caused by the Covid-19 pandemic, the project has continued to make steady progress and is set to be completed by the end of 2025 with just over half of the budgeted \$400M currently invested.

## LARGE PANEL FORMWORK SYSTEM

Given the project's scale, Consorcio Aña Cuá ART partnered with EFCO to determine that large panel formwork was the best option and chose the **PLATE GIRDER®** and **E-BEAM® & SUPER STUD®** formwork systems to meet the project's needs. During the course of the build, 286,000 cubic meters of concrete will be cast, using 90,000 tons of cement and 12,000 tons of iron. The E-BEAM & SUPER STUD ▶

*The E-BEAM & SUPER STUD wall forming system uses standard EFCO accessories and, when needed, can be used with all other EFCO wall systems such as PLATE GIRDER® and EFCO LITE®.*



formwork system provided the needed flexibility to adapt to a variety of concrete structures. Additionally, the E-Z DECK® system was used for shoring, and it solved the challenge of accommodating heights ranging from 6.0 m to 14.2 m (19.7' to 46.6') and slabs with thicknesses ranging from 1.2 m to 1.7 m (3.9' to 5.6'). With crane support, EFCO's bottom-up E-Z DECK system assembly methods streamlined the process to help meet the deadline.

**REINFORCED CONCRETE FOR HYDROELECTRIC PLANT**

The Aña Cuá expansion will house three 83.3 MW vertical axis Kaplan turbines, surrounded by reinforced concrete structures. The 500kV power lines will transmit the energy generated to the Yacyretá hydroelectric plant, and the electricity will be distributed to Argentina and Paraguay.

**WHY CHOOSE ANYONE ELSE?**

To date, the project has successfully met its objectives to ensure transparency, productivity, and sustainability. EFCO's solutions provided flexibility and customization while also meeting necessary safety standards.

EFCO is proud to come alongside our customers on projects to deliver Quality, Innovation, Integrity, and Super Service, providing our customers with the lowest in-place concrete costs.

**EFCO ONLINE**

**Fast | Easy | Secure**

Efficiently manage your project from start to finish

**EFCO EQUIPMENT**

PLATE GIRDER®, E-BEAM & SUPER STUD®, E-Z DECK

**YACYRETÁ TEAM**

- Pasquale Buonanno ..... General Manager
- Giuseppe Mazzucco ..... Project Manager
- Maurizio Gasperin ..... Construction Manager
- Martin Peña ..... Site Manager
- Casa de Maquinas
- Jonathan Olate ..... Site Manager
- Margen Izquierdo
- Carlos Porto ..... Site Manager
- Margen Derecho

**EFCO FORMWORK SPECIALISTS-ARGENTINA**

- Gabriela Loveri ..... Territory Manager
- Rodrigo Garcia ..... Territory Manager
- Roberto Janco ..... Field Supervisor
- Facundo Basilis ..... Field Supervisor
- Gaston Campagnolle ..... Engineer

**CONTACT OUR ARGENTINA OFFICE TODAY**

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*Using the bottom-up building method, Yacyretá quickly and safely assembled EFCO's E-Z DECK towers on the ground.*

