

FILCOM Application example – Factory Equipment

Hengst hydraulic solutions for sustainable energy generation



Factory Equipment

Initial situation

The Itaipu Dam and its hydroelectric power station lie between Brazil and Paraguay. This began operations on May 5, 1984. In 2008, the power plant generated an output of 94,600 GWh and today covers 17 percent of Brazil's and 73 percent of Paraguay's energy needs.

Very specifically: one of the world's largest hydroelectric power plants in Brazil



Solution statement

- Turbines and generators in hydroelectric power plants can convert up to 90 % of usable hydropower into electricity.
- Typical areas of application here are hydraulic turbine control systems. They allow the water flow to be controlled and the speed of the turbine to be regulated depending on the water level conditions and the power demand.
- Hengst Filtration supplied **double filters of the type 150 LDN** as well as **filter elements with PURE POWER** for the world's largest hydroelectric power plant in Brazil for use in hydraulic control systems.



Customer value

- As a delivery partner, Hengst Filtration guarantees **high quality and performance expertise** from a single source
- **Filter elements with PURE POWER** guarantee trouble-free and economical operation, specifically tailored to the cleanliness class, pressure conditions and the condition of the medium required when used in hydraulic turbine control systems
- The filter elements with PURE POWER form the basis for **perfect filtration** and thus create the prerequisites for the functionality of the hydraulic turbine control system.
- Up to **50 % more dirt particles** are retained by using filter elements with PURE POWER, with comparable dirt absorption and lower differential pressure
- This allows **operating costs to be reduced** and **change intervals to be extended**
- The use of the **double filter 150 LDN** guarantees maximum cost-effectiveness, as the line-filter can be used around the clock without interrupting operations



Challenge

Hydraulic applications are always in demand when things have to be moved with high forces. Industrial applications with heavy products or applications in mobile hydraulics for excavators or agricultural machinery often come to mind.

Hengst Filtration products also play a major role in renewable energies or in modern German: RENEWABLES!

Hengst filtration products are used here to ensure **efficient and reliable operation of the systems**.

Hengst
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