



STUDY CASE

NOVELDA

Mini hydro station in Los Navarros



KEY FACTS



NOVELDA (SPAIN)



PRESSURE DROP: 35 METRES



FLOW RATE: 120 LITRES / SECOND



GENERATED POWER: 32KW



PRODUCTION: 280 MWH / YEAR



HYDRO REGEN TURBINE

ANTECEDENTS

The mini hydro station “Los Navarros” has a 250 kW Francis turbine that harnesses a 40-metre drop in an existing channel, with a very poor performance especially with low flow rates, which forces the turbine to stop for long periods of time reducing the station’s productivity.

THE SOLUTION

Thanks to the new 32 kW Hydroregen turbine, installed parallel to the existing turbine, the station’s production has increased by 50 %, improving its profitability and ensuring its long-term viability. In the future, they plan to replace the existing Francis turbine with another Hydroregen turbine of greater capacity to further optimize the station’s operation.