



## Canedo

10 MW Hydropower plant, Portugal

### Technical Data

Total Installed Capacity	10 MW
Turbine Type	Francis
Number of turbines	1
Modular Flow	2.72 m <sup>3</sup> /s
Net Head	226.4 m

### Project Description

The Canedo hydropower project in Portugal was named the winner of IWP&DC's first Small Hydro Award in October 2009. It is a small hydropower project developed on the Beça River in northern Portugal, located in the Trás-os-Montes region. The Canedo project offers several benefits, both at regional and global levels. Its production of clean electricity avoids 16,500 tons of CO<sub>2</sub> emissions per year, benefiting the national and European climate targets. Most notably, the new road to the dam and the bridge, that was constructed

specifically for the project, has improved the local population's mobility by connecting the villages of Vilar and Codeçoso. Furthermore, the dam's reservoir provides significant advantages, including acting as a water reserve to fight forest fires and for recreational purposes such as fishing. The dam regulating capability also allows for greater stability in the summer irrigation flow. To find the best way to build the project, a concept contest was held in an architecture college. All relevant contributions from NGOs, local authorities and the general public were integrated into the project. Initiatives such as the design and construction of a fish passage, ensure harmony with the environment. The design RP Global decided on also allows for interaction with visitors, it features a balcony visible from a riverside path, allowing walkers a full interior view of the powerhouse.

Start of production was in 2009.

