

9. VDE (CHIOMONTE-SUSA) HYDROELECTRIC PLANT REPOWERING PROJECT

CATEGORY

Renewable energy (Mini Hydro Power)

LOCATION



DESCRIPTION

The upgrade entails modernising the two plants located in Valle Dora, specifically:

- the upstream plant with intake in the Municipality of Salbertrand and the hydroelectric station in Chiomonte;
- the plant with intake in Chiomonte and the station in Susa.

The project is divided into three consecutive phases:

- an initial authorisation phase;
- a second executive design phase;
- a third site preparation and construction phase.

During the initial phase, which is already complete, the thirty-year water diversion concession and the single authorisation for construction were obtained in order to be able to prepare the site for the works and operate the two plants in the future.

The second executive design phase was completed in the first few months of 2018.

The upgrade project consists of replacing the currently existing energy production groups with 4 new groups, providing a total installed power of 15 MW. Two groups will be installed in the Chiomonte plant and two in the lower Susa plant.

The upgrade activities will also entail the extraordinary maintenance of the electromechanical works, the adduction and regulation works, with the replacement of the bridge cranes and civil works from the intake in Serre La Voute to the Chiomonte Plant,

then restarting with the new intake in Chiomonte, where the new fish ladder will be built, and finally the modernisation of the Susa station.

The third and final phase will consist of the actual preparation of the worksite. The works began in December 2017. Meanwhile, the plants are expected to enter into operation by November 2019.

AMOUNT

Full project amount (2008-2019) (€ millions)	Financeable amount (€ millions)	Financed amount (€ millions)
12.5	12.5	2008-2018: 1.0 mln 2019: 5.0 mln
		Total 6.0 mln



ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	UM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Electrical energy produced from renewable non-fossil sources per operating year	MWhe	56,140	72,690	62,690	62,831	60,034	59,818	57,263	19,030	19,030	19,030	19,030
Avoided CO ₂ emissions from fossil sources per operating year	t	27,643	36,882	32,407	33,198	30,760	29,418	27,384	9,359	9,359	9,359	9,359