

ACCUMULATORS DISTRICT HEATING "BIT" (TO)

CATEGORY

Energy efficiency (Energy distribution and management)

LOCATION



DESCRIPTION

Heat accumulation system inside the thermal integration and reserve plant located in the area known as BIT, in Turin, serving the district heating network of the City of Turin. The district heating network is composed of 554 km of double pipes and about 60 million m³ of district heating volumes (at December 2016).

The system accumulates and supplies superheated water from the district heating network, with a flow temperature normally between 105° C and 120° C. The storage system has the function of storing the thermal energy produced by the thermoelectric plants in cogeneration, when the heat demand is less, to sell it in the hours of maximum load of the district heating network, reducing the use of integration boilers.

AMOUNT

Full project amount (€ millions)	Financed amount (€ millions)
7.9	3.9



ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	Unit of measure	2016	2017	2018	2019	2020	2021	2022
Primary energy saving per operating year	MWh	3,855	9,201	10,723	13,001	10,082	12,395	11,488
Avoided CO ₂ emissions from fossil sources per operating year	t	758	1,809	1,752	2,124	1,647	2,437	2,259