

ACCUMULATORS DISTRICT HEATING IN SAN SALVARIO (TURIN)

CATEGORY

Energy efficiency (Energy distribution and management)

LOCATION



DESCRIPTION

Heat accumulation system, located in the San Salvario area of Turin, serving the City of Turin's district heating network. The district heating network is made up of approximately 554 km of double pipelines and heats approximately 60 million m³ (figures from December 2016).

The project makes it possible to increase the connected volume by 2.3 million m³, corresponding to approximately 350 new users.

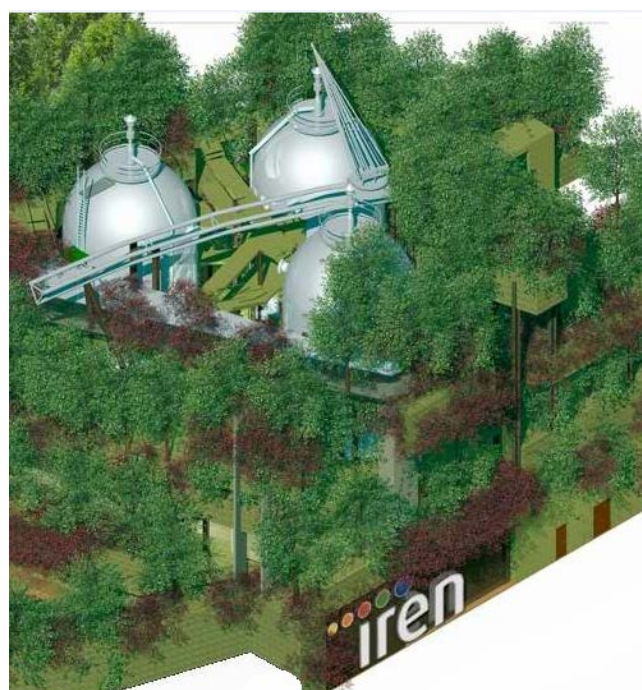
The project consists of:

- a heat accumulation system for superheated water made up of 3 pressurised tanks above ground, with a total capacity of 2,500 m³;
- a system for pumping and re-pumping the superheated water in the district heating network;
- auxiliary systems: a filling/emptying and level restoration system, an electrical power system, a regulation system, a control and supervision system, an HVAC system, a fire safety system, a lighting and motive power system, a CCTV system, a video surveillance system - anti-intrusion and access control, etc.;

- a district heating network building and all of the civil works necessary for the construction of the plant;
- a photovoltaic plant, with a nominal power of 14 kWp, connected to the site's electric power system.

AMOUNT

Full project amount (€ millions)	Financed amount (€ millions)
18.1	4.4



ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	Unit of measure	2017	2018	2019	2020	2021	2022
Primary energy saving per operating year	MWh					12,395	11,488
Electrical energy produced from renewable non-fossil sources per operating year	MWh					18.30	18.30
Avoided CO ₂ emissions from fossil sources per operating year	t					2,437	2,259
Avoided CO ₂ emissions from fossil sources per operating year by photovoltaic plant	t					9,37	9,37