

## 6. ACCUMULATORS DISTRICT HEATING “MIRAFIORI NORD” (TO)

### CATEGORY

Energy efficiency (Energy Distribution & Management)

### LOCATION



### DESCRIPTION

Heat storage system, in the area of the former Mirafiori Nord plant, 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 m<sup>3</sup> of district heating volumes (at December 2016).

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. Inside the site are also present:

- a photovoltaic system with a nominal power of 35 kWp connected to the site's electrical system;
- a solar thermal plant with a nominal capacity of 450 kW connected to the district heating system.



### AMOUNT

Full project amount at 31.12.2017 (€ millions)	Financeable amount (€ millions)	Financed amount (€ millions)
1.9	1.9	1.9

### ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	Unit of measure	2019	2020	2021	2022
Primary energy saving per operating year	MWh	5,846	14,372	12,395	11,488
Electricity produced from renewable non-fossil sources per operating year	MWh	45.75	45.75	45.75	45.75
Thermal energy produced from renewable non-fossil sources per operating year	MWh	350	350	350	350
Avoided CO <sub>2</sub> emissions from fossil sources per operating year	t	1,149	2,826	2,437	2,259