

3. ACCUMULATORS DISTRICT HEATING IN PIACENZA (PC)

CATEGORY

Energy efficiency (Energy Distribution and Management)

flexibility and commissioning speed, increased flexibility in managing thermal energy flows, saving primary sources and reducing greenhouse gases.

LOCATION



AMOUNT

Full project amount (2008-2019) (€ millions)	Financeable amount (€ millions)	Financed amount (€ millions)
1.7	1.7	2008-2018: - mln 2019: - mln
		Total - mln

DESCRIPTION

Heat accumulation system serving the Piacenza district heating network. The Piacenza district heating network is fed by a flow of vapour produced by the Levante cogeneration plant, owned by A2A, and the supplementary and reserve plant on via Diete di Roncaglia, owned by IREN Energia. Both plants are located north-east of the city's district heating network, beyond the rail intersection, and the heat produced is transported to the city. The Piacenza district heating network is made up of 22 km of double pipeline, with a connected volume of approximately 1.6 million m³ as at 31/12/2016.

The project consists of installing a heat accumulation system made up of 3 accumulators, with an overall capacity of 1,200 m³, in the northern part of the city of Piacenza. The function of this system is to store the thermal energy produced by the cogeneration thermal power plants, when heat demand is lower, in order to transfer it later, when the district heating network is operating with its maximum load, thus reducing the use of supplementary boilers.

The energy contributed by the accumulation system makes it possible to achieve objectives such as increased operating



ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	Unit of measure	2017	2018	2019	2020	2021	2022
Primary energy saving per operating year	MWh				3,180	3,180	3,180
Avoided CO ₂ emissions from fossil sources per operating year	t				625	625	625