

SMART SOLUTIONS

CATEGORY

Energy efficiency (*Energy distribution and management*)

LOCATION



DESCRIPTION

The energy efficiency project produces positive impacts in terms of reducing electricity and thermal consumption, thanks to the activities developed in 3 areas of intervention:

1) Public lighting of the Municipality of Fidenza
Redevelopment and energy efficiency of the city's public lighting system:

- replacement of 6,174 lighting fixtures with others with new LED technology;
- rebuilding of electrical panels;
- remote control implementation on electrical panels
- City smart interventions: electric car charging stations, event communications boards, etc.

2) Technological renewal of thermal power stations of municipal buildings in Turin:

- energy pre-intervention redevelopment diagnoses and Energy Performance Certificates;
- installation of high efficiency boilers in 224 municipal buildings
- EPC contracts to guarantee efficiency gains.

3) Interventions to improve the energy efficiency of technological systems

Teatro Regio:

- replacement of 11 AHU fan motors;

- centralized cooling and heat recovery with the installation of 4 latest-generation refrigeration units and replacement of the cooling towers.
 - thermal power plant requalification: installation of 6 condensing thermal groups of 840 kW;
 - building management system with the implementation of a new automation system of the BACS type.
- Municipality of Grugliasco:
- insulation of the opaque building envelope;
 - replacement of windows and doors;
 - installation of a new heat recovery building air conditioning system;
 - installation of an energy supervision system;
 - local re-lamping (replacement of existing lamps with LED technology elements);
 - installation of a new photovoltaic system.

AMOUNT

Full project amount (€ millions)	Financeable amount (€ millions)	Financed amount (€ millions)
19.8	19.8	19.8



ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	UM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Avoided CO2 emissions from fossil sources per operating year	t							1.119	3.092	2.376	2.516	2.516
Primary energy saving per operating year	Tep							648	1.281	975	1.033	1.033