

## 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

### 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	2,545	2,516	2,516
Primary energy saving per operating year	Tep							648	1,281	1,067	1,033	1,033

Teatro Regio: replacement of 10 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;

### AMOUNT

Full project amount (€ millions)	Financed amount (€ millions)
45.8	26.0 (GB4) 19.8 (GB3)

