

ELECTRICITY DISTRIBUTION SMART METERING 1G (TORINO AND PARMA)

CATEGORY

Energy efficiency (Energy distribution and management)

LOCATION



DESCRIPTION

IRETI is the company of the Iren Group that manages the electrical energy distribution and metering services in the cities of Turin and Parma, providing electricity to more than 720.000 supply points (PODs - Points of Delivery), approx. 570.000 of which located in Turin and approx. 150.000 in Parma.

Promoted by Del. n. 292/06 of ARERA (Authority for Regulation of Energy, Networks and Environment), the present project consisted in the replacement of the traditional electromechanical meters with a new generation of meters (smart meters), enabled for both the functions of remote reading and remote management. Such metering system allows collecting a much higher amount of measurement data, guaranteeing the billing of due payments based on the actual values of their electricity consumption, and simplifying several activities such as the activation/deactivation of a supply contract, the increase/decrease of the committed power capacity, as well as the service transfer or switching procedures, based on the actual measurement data.

A greater availability of real measures (the smart meters allows their collection with a 15 minutes resolution) provides to the end users a higher awareness of their own electricity consumptions (see Directive 2012/27/EU), supporting virtuous behaviours which lead to an energy consumption reduction and to a better employment of the energy commodity, with consequent environmental benefits.

For instance, a pilot project promoted by ARERA (Del. ARG/elt n. 39/10) showed that the availability of a larger amount of actual measures, achieved through the installation of the smart meters, contributed to increase the end users awareness of their consumptions, resulting in an average energy saving of approx. 7%

AMOUNT

Full project amount (€ millions)	Financed amount (€ millions)
50.9	1.1 (GB4) 40.1 (GB3)



ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	Unit of measure	2006/2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Smart meters installed	n	81,000	284,000	522,000	602,000	632,000	648,000	662,000	675,000	687,000	698,000	708,000	719,000	727,545	730,535	719,000	719,000
Percentage of smart meters on the total	%	11%	39%	71%	82%	86%	88%	90%	92%	93%	95%	96%	98%	96%	96%	98%	98%