

## COGENERATION PLANT TORINO NORD

### CATEGORY

Energy efficiency (Cogeneration facilities)

### LOCATION



### DESCRIPTION

The Turin North Plant is an important electrical energy and heat production plant within the Turin metropolitan area and, together with the Moncalieri Plant, it forms the basis of the city of Turin's district heating system.

The start dates for the Plant's construction and operation are provided below.

- 2010: start of construction of the Turin North Plant;
- 30 April 2012: start of commercial operation.

The Plant is made up of the following production groups, functioning on natural gas only:

- 1 Combined-cycle cogeneration thermoelectric group (CCTG);
- 3 Supplementary and reserve boilers;
- 1 Auxiliary boiler for starting the combined cycle
- 6 Heat accumulators.

### AMOUNT

Full project amount (€ millions)	Financed amount (€ millions)
	98.4 (GB4)
351.6	40.1 (GB3)
	191.1 (GB2)

### ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	UM	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Electrical energy produced per operating year	MWhe	1,432,728	1,894,130	1,080,072	2,200,788	2,133,545	2,002,201	2,079,471	2,041,630	2,085,836	1,820,532	1,820,931
Thermal energy produced per operating year	MWht	453,069	474,766	419,311	1,092,632	1,030,891	958,458	1,013,481	907,646	963,023	1,088,406	1,102,496
Primary energy saving per operating year	MWh	574,353	796,823	471,970	1,396,716	1,308,017	1,226,699	1,263,239	987,121	906,802	1,348,095	1,363,535
Avoided CO2 emissions from fossil sources per operating year	t	211,482	289,447	169,483	426,318	413,253	397,432	361,382	331,455	288,678	363,262	366,492