

## I.BLU: RECYCLING PLANT IN COSTA DI ROVIGO (RO)

### CATEGORY

Waste management efficiency and recycling (Waste collection and sorting upgrades)

### LOCATION



### DESCRIPTION

The plant, owned by IBLU, operates on behalf of the Corepla Consortium and consists of two distinct production lines.

a) Washing and granulation line (Line 1): this line deals with a previously selected waste consisting of mixed polyolefins. After a first primary trituration step, the polyolefin component is separated from the other fractions. The polyolefin fraction is then centrifuged and "squeezed" by mechanical presses that reduce its humidity and densified using twin-screw extruders at high temperatures. After the cooling and grinding phases, the densified product is finally sent to single-screw extruders which transform it into granules (Blupolymer) used for:  
 create products for the construction of low energy impact buildings and outdoor spaces that respect the environment;  
 increase the strength and durability of the asphalt over time, ensuring intact flooring for longer, reduced maintenance and greater safety, less waste of resources and circularity of materials.

b) Production line of Bluair reducing agent (Line 2): the incoming waste, consisting of more heterogeneous and less refined plastic, is subjected to primary shredding, then densified, shredded with a blade mill and separated into different sizes with the aid of a rotating screen. In the process, the heavy fraction of Line 1 processing is also reused, reducing the amount of waste produced by the plant. At the end of the process the product is stored in heaps and shipped mainly in bulk. The output product is Bluair reducing agent (secondary reducing agent, S.R.A.) intended for the steel industry. The plant's current production capacity is approximately 45,000 tons / year.

### AMOUNT

Full project amount (€ millions)	Financed amount (€ millions)
8.8	8.8



### ENVIRONMENTAL PERFORMANCE INDICATORS

KPI	UM	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Blupolymer produced	t								7,054	12,000	13,000
Bluair produced	t								6,648	24,000	25,000
Avoided CO2 emissions	t								12,709	25,600	27,500