

HIGHLY AUTOMATED MATERIAL RECOVERY FACILITY (MRF) FOR **PAPER, CARDBOARD AND GLASS** - CAIVANO

The project will take place within the ASI area and is developed by "S.A.P.N.A." Sistema Ambiente Provincia di Napoli S.p.A. The Recovery and Resilience Facility (RRF) instruments is used to finance the project, meet the increasingly stringent environmental regulations and maximize recovery and recycling rates. The initiative broadly contributes to enhancing the integrated cycle of urban waste. Cutting-edge technologies and advanced control systems are used in compliance with EU and national regulations. Two highly automated process lines are provided:

- A section for the recovery of paper and cardboard coming from waste already segregated at source (differentiated collection).
- A section for the recovery of glass coming from waste already segregated at source (colour-sorted glass, cullet production)

The project aims to guarantee R3 - R5 - R13 waste management operations in line with national Decree 152/2006.

DESIGN DATA

Public client ATO NA 1 (public / private committee)
Type of service feasibility study
Project cost € 11.181.816,25
Location Caivano (NA)
Total site surface 70.000 m²
Design period February 2022

TECHNICAL DATA

PAPER AND CARDBOARD RECOVERY LINE

Treatment capacity 37.200 t/ year
Mechanical treatment Double screening stage, optical separation, highly automated (robotic) sorting, pressing and filming
Recoverable materials Plastic materials, Paper bales, Cardboard bales

GLASS RECOVERY LINE

Treatment capacity 77.000 t/ anno
Mechanical treatments aeraulic separation, manual sorting, crusher, magnetic separator, foucault current separator, binary and ternary optical separation
Recoverable materials
Green glass cullet
Flint glass cullet
Amber glass cullet
High melting point glass
ferrous and non-ferrous metals

