









Application de l'innovation pour le développement de l'économie circulaire pour une construction durable en Méditerranée

CDW Recycling Facility Operation

From rubbles to recycled aggregates, construction and demolition wastes (CDW) undergo a lengthy process when being recycled in construction and demolition waste recycling facilities. The below list details that process for nonhazardous CDW.

05 | Sieved After removing ferrous metals, the waste is sieved into different sizes 04 | Removal of ferrous that enable its characterization as material thorugh **magnets** coarse or fine aggregates. Waste 06 | Removal of lighter The waste then passes through that does not fit the size ranges of weight material several magnets to extract the this characterization is sent back Wind sifters are then used on the different sizes of ferrous metals for further crushing. (iron and steel). sieved waste to separate lightweight materials such as paper, 03 | Primary Crushing plastic, wood, and fines. After initial inspection and 07 | Removal of sorting, the waste goes through non-recyclable materials primary crushing to reduce its Skilled workers may be used at this size into manageable sizes for stage to remove any remaining upcoming machinery. non-recyclable materials from the recycled aggregates 02 | Initial inspection Manually sorted 08 | Storage of sorted At the facility, initial inspection is carried out and the waste is recycled construction waste manually sorted to remove large prior to sales into market pieces of steel and wood as well as The recycled aggregates (coarse items such as furniture, appliances, and fine), steel, wood, and plastics or others. These items are sent for are sold into the market or to proper disposal or further recycling. recyclers for further processing after initial quality control at the recycling facility. 01 | Construction and demolition waste collection 09 | Residual Wastes First, the waste is collected Residual wastes and non-recyclable from construction, demolition, materials such as fines are sent for and remodeling sites, and landfilling or proper disposal. transported in trucks to CDW recycling facilities.







Waste **Transportation**



Waste **Crushing**



Removal of ferrous material thorugh **Magnets**









