

Our biography

Egyptian Company for solid Waste Recycling (ECARU), which is the largest Solid Waste Management service provider in the Middle East and Africa providing the following Businesses:

- 1- Biomass Business**, ECARU providing Collecting, transporting, processing all types of agricultural residues as ECARU collects and processes approximately 750,000 ton /year of the Agricultural residues. We are producing various types of products such as Alternative solid fuel for the industrial sector & Organic Compost, Animal Feed for Agricultural sector & we are currently processing our Biomasses to produce an Alternative solid Fuel for Cement kilns (250,000-500,000 ton/year).
- 2- Municipal Solid waste (MSW) Business**, ECARU is most innovative, experienced & specialized in MSW management (MRF, composting, Recycling, RDF Production and disposal facilities), upgrade, maintenance, equipment supply and technical support to provide integrated services for any projects. We are producing various types of products such as Organic Compost for Agricultural sector , we are currently receiving 500,000 ton of MSW on our MRF Projects, we are currently processing the receiving quantities and produce 100,000 ton/year high quality RDF as an Alternative solid Fuel for Cement kilns

Why alternative solid fuel products

Due to the ever increasing need to reduce our dependency on fossil fuels, As power generating companies and other energy users look towards reducing reliance on coal, oil and gas, the challenge to find alternative fuel sources is hotly contested. We believe we have technology, technically and operational capability to produce high quality alternative solid waste.



1. Receiving area and presorting



2. Sorting of solid waste



3. Baling of recyclables



4. Composting



5. Raw reject, unshredded RDF, Fluff RDF



6. Landfilling of rejects

Our Products

- Raw Rejects, Un-shredded and Fluff RDF.
- Biomass Derived Fuel (BDF).

Fluff RDF Definition

A fuel produced by Sorting, screening, drying and shredding of the Raw Rejects which generated from Material Recovery Facility (MRF), FLUFF RDF consists largely of combustible components such as mixed plastic film, paper, textile which has high heating value

Raw Rejects, Un-shredded and Fluff RDF Technical Specifications:

| No | MSW A.F Classification | C.V "mmbtu/Ton" | Particle Size "inch" | Moisture content "%" | Ash Content "%" |
|----|------------------------|-----------------|----------------------|----------------------|-----------------|
| 1 | Raw Rejects | 10 | > 6 | 35-45 | 30 |
| 2 | Un-shredded RDF | 18-24 | > 6 | <10 | 30-20 |
| 3 | Fluff RDF | 18-24 | < 3 | <5 | 10 |



Raw Rejects



Raw RDF



Fluff RDF



Fluff RDF Bales

Biomass Derived Fuel (BDF)

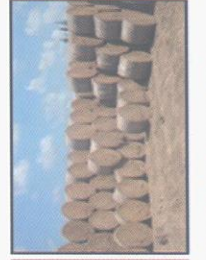
Biomass derived fuel used to produce heat (via direct combustion), the derived energy helps in reducing carbon dioxide emissions, which significantly contributor to global warming issue the world is facing nowadays.

Biomass Technical Specification

| No | Parameters | Class A " Woody material" | | | | Unit |
|----|-----------------|---------------------------|---------------|------------|-------------|------------|
| | | Tree Trimmings | Cotton Stalks | Rice Straw | Corn Stalks | |
| 1 | Moisture | < 16 | < 16 | < 16 | < 16 | % |
| 2 | Ash | 3.85 | 3.1 | 13.9 | 7.5 | % |
| 3 | Calorific value | 15.6 | 15.2 | 12.8 | 13.6 | mmbtu /Ton |



Shredded Rice straw



Shredded Rice straw Bales

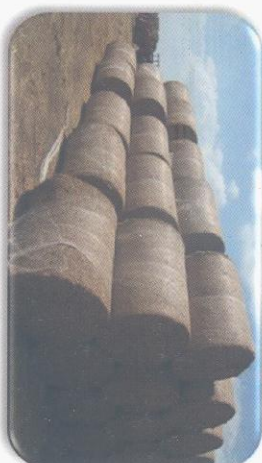


Shredded Cotton stalks



Shredded Sugarcane Trash Bales

Alternative Solid Fuels (RDF&BDF) Production




ECARU
Waste Recycling
Egyptian Company for Solid Waste Recycling




ENTAG Engineering Tasks Group


ECARU Egyptian Company For Solid Waste Recycling

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