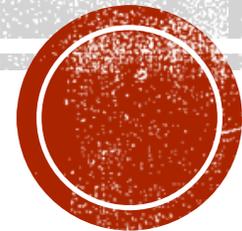


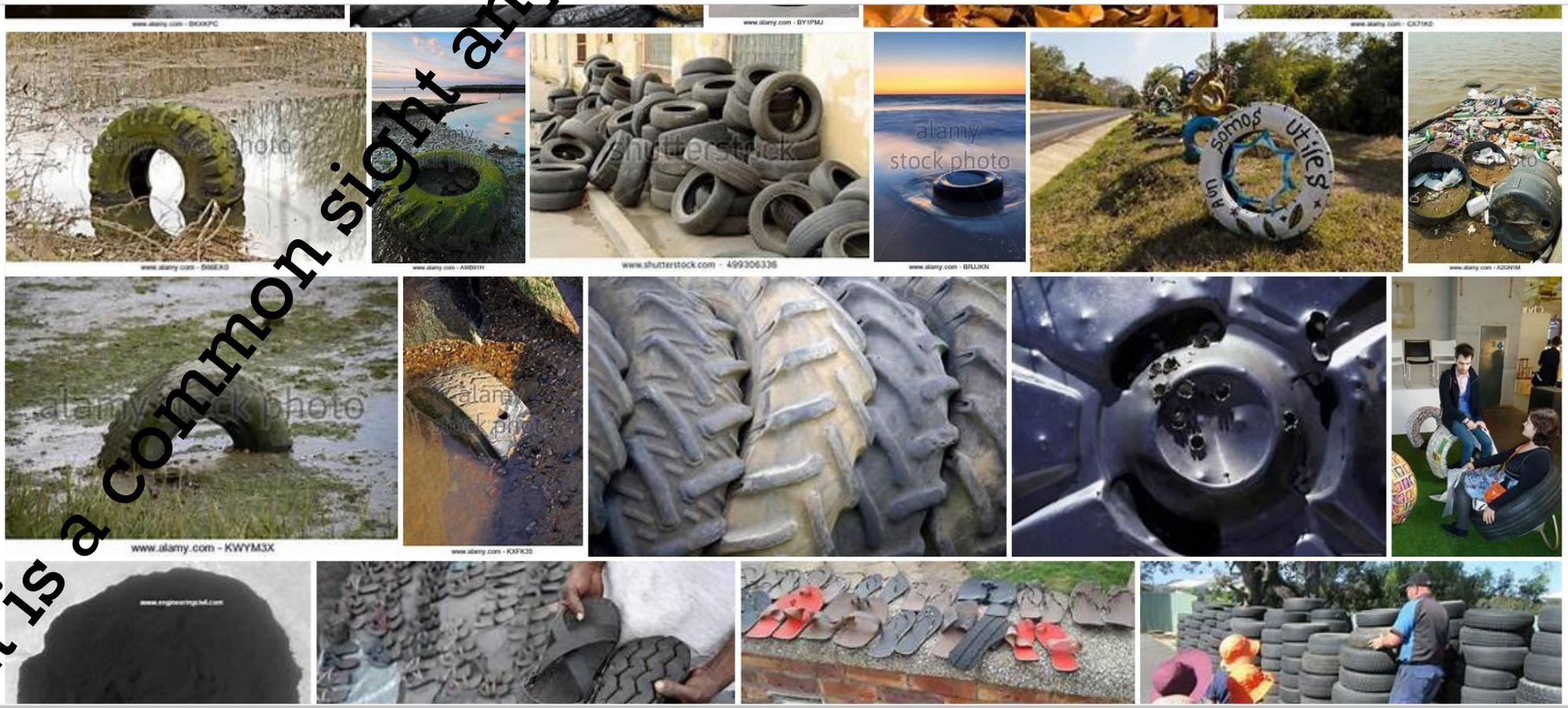
WASTE TYRE

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What is a common sight anywhere!



RECYCLING WASTE TYRE

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Rubber Recycling

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Project @ a Glance

- Rubber recovery can be a difficult process. There are many reasons, however why rubber should be reclaimed or recovered; Recovered rubber can cost half that of natural or synthetic rubber. Recovered rubber has some properties that are better than those of virgin rubber.

Contents on the CD Rom

General

- A history of rubber recycling
- Recycling of Rubber
- Recycled Rubber Business
- Brief History & Introduction of Rubber

Equipments Suppliers

- Armex Inc
- Environmental Protection Equipment Co., Ltd.
- Charles Lawrence
- Tire Recycling equipment suppliers List

Tyre Oil

Processing used tires, Technology sources, Research Institutions, Project Information

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Information @ a Glance

- Pyrolysis is the thermal degradation of materials containing carbon. The process is carried out usually at temperatures in the range of 400 C to 600 C in an atmosphere in which oxygen is very limited or excluded to preclude combustion. The products of pyrolysis include gas, liquids and solid char
- Three commercially important pyrolysis by-products from vehicle tires are liquid oil, solid char, and exhaust gas.
- A typical passenger car tire contains 24-28 percent of carbon black, 40-48 percent of natural rubber (NR) and 36-24 of synthetic rubber including styrene butadiene rubbers

Contents on the CD Rom

General

- Scrap Tyres - FAQ
- Greenhouse gas emission factors
- Tires to Diesel
- Compositional Analysis

Process

- Pyrolysis of scrap tires - Process variables

Company profiles & Consultants

- Renewable Energy Company
- Tyre Recycling Consultants
- Technology Company in the US
- Technology Company - Malaysia
- North American Company
- USA Technology Company

Another Option for used tyre recycling



- The UK was sending massive shipments of discarded tyres to India instead of recycling them on its own soil.
- The exports were reaching Indian factory units that turned them into tyre-derived fuel, mostly tyre pyrolysis oil which is used to reprocess tyres into fuel gas, solid residue (char) and low-grade carbon black
- Retreading was a thing of the past which is no longer done in the metros by the organized market
- The use of CRMB, recommended by the Union Ministry of Road Transport and Highways is the best options

THE BEST OPTION

**Crumb
rubber
modified
bitumen
(CRMB) for
road
construction**



CRUMB RUBBER MODIFIED BITUMEN (CRMB)

The best option ?

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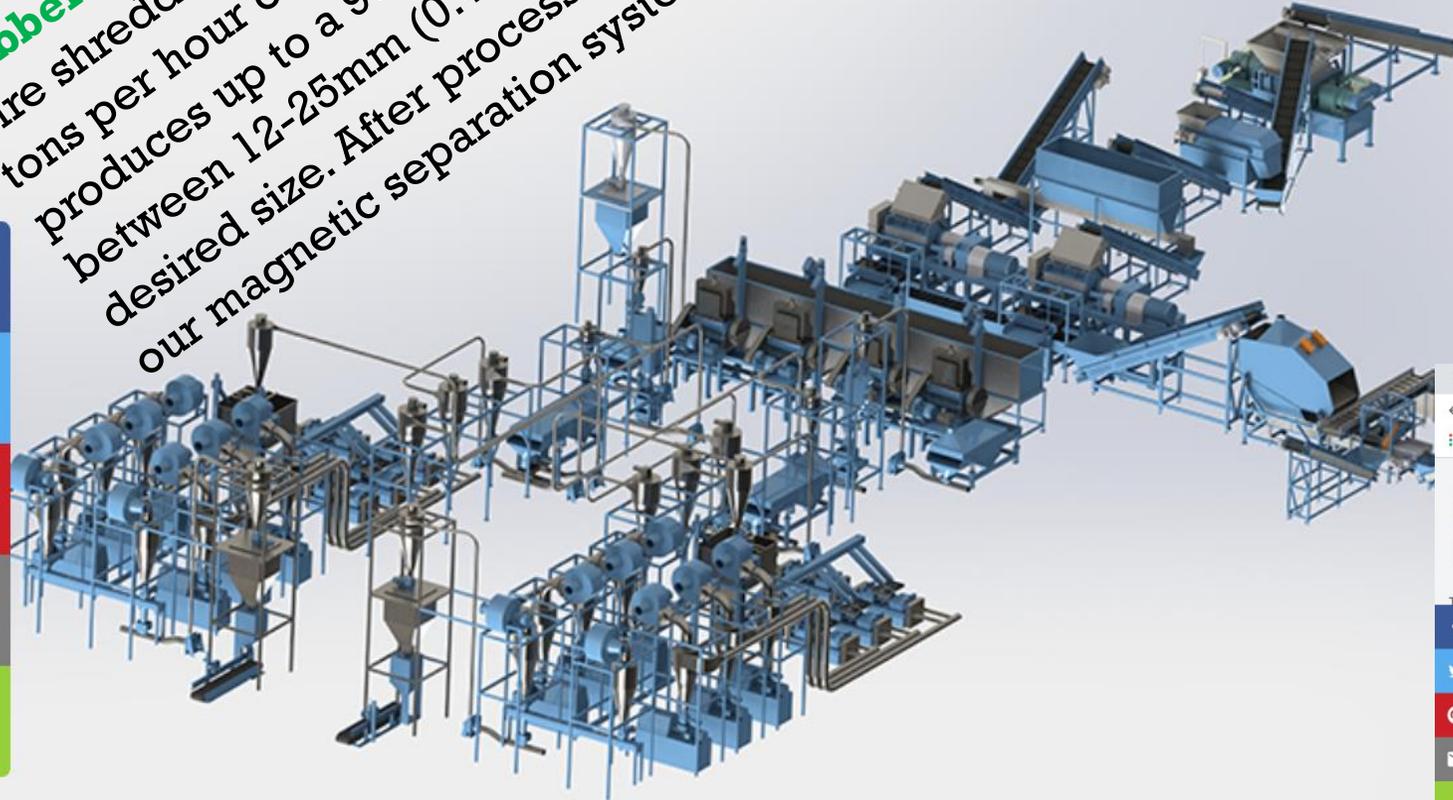
The collage contains several informational panels:

- Crumb Rubber Modified Bitumen:** Shows the composition: Bitumen + Additives (Modifiers/Treated Crumb Rubber).
- Ambient Grinding:** Describes the process: "Processed at or above ordinary room temperature" and "Produces irregularly shaped, loose particles with relatively large surface area." Includes a diagram showing "NATURAL RUBBER CRUMB" and "WASTE FINE CRUMB (10%)".
- International Use of Crumb Rubber Modified Bitumen:** Lists countries: "CRMB in use in USA, Canada, France, Germany and South Africa." and "UK Environmentalists want use of CRMB to be encouraged on roads. Govts. especially are considering making the use mandatory." Also mentions "Belgian Road Research center encouraging the use of CRMB on Freeways".
- Comparison:** A table comparing CRMB with other materials across various metrics.
- Cryogenic Grinding:** Notes: "This process uses liquid Nitrogen to freeze CR" and "It has relatively lower surface area." Includes a microscopic image of CR particles.
- International Use of Crumb Rubber Modified Bitumen:** States "CRMB is being used in USA from 1960" and lists "Currently Arizona, Florida, Texas and California using 2 million tons of Rubberized Bitumen." Also notes "CRMB is very popular in Australia for chip sealing wearing courses and structural layers" and "Use of CRMB increasing in developing countries of Latin America." Includes a table with technical specifications.
- Crumb Rubber Modified Bitumen:** A central panel with the text "Bitumen + Additives (Modifiers/Treated Crumb Rubber)".
- CR-interaction Process:** A flowchart showing the process from "RUBBER CRUMB" and "BITUMEN" through "HEATING" and "MIXING" to "APPLIED PAVEMENT".
- Tests on Crumb Rubber Modified Bitumen:** Lists tests: "Penetration", "Softening Point", "Elastic Recovery", "Thin Film Oven Test", "Penetration", "Softening Point".
- Visuals:** Includes a graph of "VELOCITY" vs "TIME, HOURS", a pile of CR particles, a road with CRMB, and a microscopic image of CR particles.

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Rubber mulch system
Tire shredding system is designed to process 1000 tons per hour of wire free rubber mulch. This produces up to a 99% wire free chip ranging in size between 12-25mm (0.47" and 1.0") depending on the desired size. After processing, the steel is removed by our magnetic separation system.



The whole rubber milling line
LIKE Tire Recycling collection and processing facilities convert automobile, truck, off-road tires even OTR tires into innovative and useful products.

Production line

The whole rubber milling line system

per mulch system

per crumb system

per powder system

LIKE Recycling is the leader in cost-effective turnkey tire recycling systems sole globally. LIKE Recycling systems deliver optimum production performance and profitability at the industry's most affordable costs for TDS (tire derived shreds), wire free chips, rubber mulch, crumb rubber, and fine rubber powder, used in a variety of applications worldwide.

| | | |
|----------------|-------------------|------------|
| 70%-80% Rubber | 10-30% Steel wire | 1-5% nylon |
|----------------|-------------------|------------|

Application

Details.jpg

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QUESTIONS?

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