

حلول الاستدامة
Sustainability Solutions



Sustainability Solutions Company

Commitment to Achieve Sustainable, Green Recycling Solutions and Lead the Circular Economy.

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About Us

Sustainability Solutions Company for environmental services

established as a joined venture between Saudi investment Recycling Company (SIRC) represented by Demolition and Building Materials Recycling Company (AKAM) and Jeddah Municipality represented by (Jeddah Company) to lead the waste management and recycling sector in Jeddah City.

Sustainability Solutions Company acts as the execution arm of the circular economy in Jeddah to:

- Build market understanding and waste characterization for Jeddah waste management and recycling sector.
- Support in regulations enforcement, leading best practices, recycling models for the green initiative and ESG projects.
- Establish partnerships and lead the execution of recycling projects to, maximize recycling rate and landfill diversion.



سرك
SIRC



Vision & Mission



Vision

To be an integral champion of circular economy in the waste management and recycling sector of Jeddah governorate.



Mission

To provide innovative waste management solutions that can boost our advancement towards a cleaner environment.

Core Values



Sustainability

Continuous effort towards sustainable value that reduces waste & achieve impact.



Reliability

Providing consistent ,dependable Waste management services and recycling solutions that customer can trust.



Responsibility

Being responsible towards the community and the environment.



Collaboration

Collaborating with stakeholders to achieve common goals & drive change.



Community

Engaging with local communities & supporting their efforts to promote sustainability & reduce waste.

Goals

Under the patronage of the Jeddah Municipality (Jeddah Company) and SIRC and in line with the Ministry of Environment, Water and Agriculture (MEWA), National Center for Waste Management (MWAN) and Ministry of Municipal, Rural Affairs and Housing (MOMRAH) targets;

Sustainability Solutions Company will lead the circular economy in Jeddah as part of the overall goals of the Saudi Green Initiative (SGI).

Our primary goal is to elevate the recycling sector by achieving remarkable goals and generating more non-oil revenues. To accomplish this, we foster close collaboration with all stakeholders, focusing on Jeddah City.

Our targets include
achieving



landfill diversion across all waste streams by **2035**

Strategy

Sustainability Solutions Company has a sustainable strategy to adapt the circular economy for various key waste streams. This can be achieved by developing and implementing cutting edge recycling technologies and practices in the waste management and recycling projects in Jeddah.

Metal Waste:

- ELV (End of Life Vehicle) & Scrap.
- Used Tiers & Batteries.

Municipal Waste:

- MSW (Municipal Solid Waste).
- CDW (Construction & Demolition Waste).

Hazardous Waste:

- Used Oils & Lubricants.
- UCO (Used Cooking Oil).

Why Us ?

We focus on sustainable environmental responsibility; our core business lies within saving valuable recyclable materials from ending up in landfills through applying the effective implementation of the circular economy strategies by applying latest and environmentally friendly technologies, contributing to maximize the recycling rate of diverse waste streams, and providing various recycled products to the market.

Join us
in shaping a cleaner and healthier planet through recycling.

Services

Discover how Sustainability Solutions Company provides efficient eco-friendly recycling & waste management solutions. With a strong commitment towards environmental preservation, our innovative practices we ensure efficient transformation of waste into valuable resources.

Our expert team carefully categorizes and organizes the collected materials to streamline the recycling process effectively.

Our Services



Collection & Transportation:

We ensure efficient gathering and transportation of recyclable waste materials from diverse sources to our recycling facilities.



Recycling:

Using cutting-edge technologies, we adeptly transform the prepared materials into valuable reusable resources, significantly reducing our dependence on raw materials and promoting sustainable practices.



Environmental Disposal:

For non-recyclable materials, we ensure proper and eco-friendly disposal methods to minimize environmental impact.

Products



One of our primary goals is to raise awareness within the community about the significant impact of recycled products on the environment.

Recycled products are an essential part of the environmental movement, playing an important role in our ongoing efforts not only to achieve more sustainable future, but also support the growth of a circular economy that values waste reduction, resource optimization, and the creation of new opportunities.

Recycled Soil and Sand

Recycled soil and sand are the result of processing and reusing construction and demolition waste (CDW) materials, including concrete, asphalt, and other aggregates.

Once the waste materials are collected and processed, the resulting recycled soil and sand can be used as a substitute for natural sand in various applications,

such as construction, road and pavement projects, landscaping, pipe bedding, beach replenishment, sports fields, playgrounds, and as filter media in wastewater treatment. It plays a crucial role in reducing the demand for natural sand, contributing to waste reduction, sustainability, and environmental preservation by diverting CDW from landfills and promoting circular economy principles.

To ensure quality, our facilities subject the recycled soil and sand to thorough examination and categorize them into several classes following the classification system such as, the American Association of State Highway and Transportation Officials (AASHTO).

And reference to the Saudi Standards, Metrology and Quality Org. (SASO), Standard No. SASO-GSO-2489.



Recovered Fine Sand



Recovered Coarse Sand



Construction Sand

Recycled Soil and Sand Applications



Subbase Layers for Asphalt Roads



Temporary Agricultural Roads



Site Backfill

Aggregate

Aggregate: is a combination of gravel, crushed stone, or other materials that are mixed to form the bulk of concrete, asphalt, and other building materials.

Recycled Aggregate steps into the future of construction, where it assumes a leading role in driving transformative and environmentally conscious building practices. It emerges as a transformative building material meticulously derived from the reutilization and processing of (CDW).

Reference to the Saudi Standards, Metrology and Quality Org. (SASO), Standard No. SASO-GSO-2489, This innovative solution encompasses a diverse range of materials with applications such as :

Creating concrete.

- Backfill materials used for construction and Roads.
- The layers which are situated under the asphalt surface within the road structure.
- Asphalt works for agricultural and temporary roads.
- Base layer and pipes bedding for water, sewage, and electricity.



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Recycled Aggregate Applications



Pipe Bedding and Surrounding

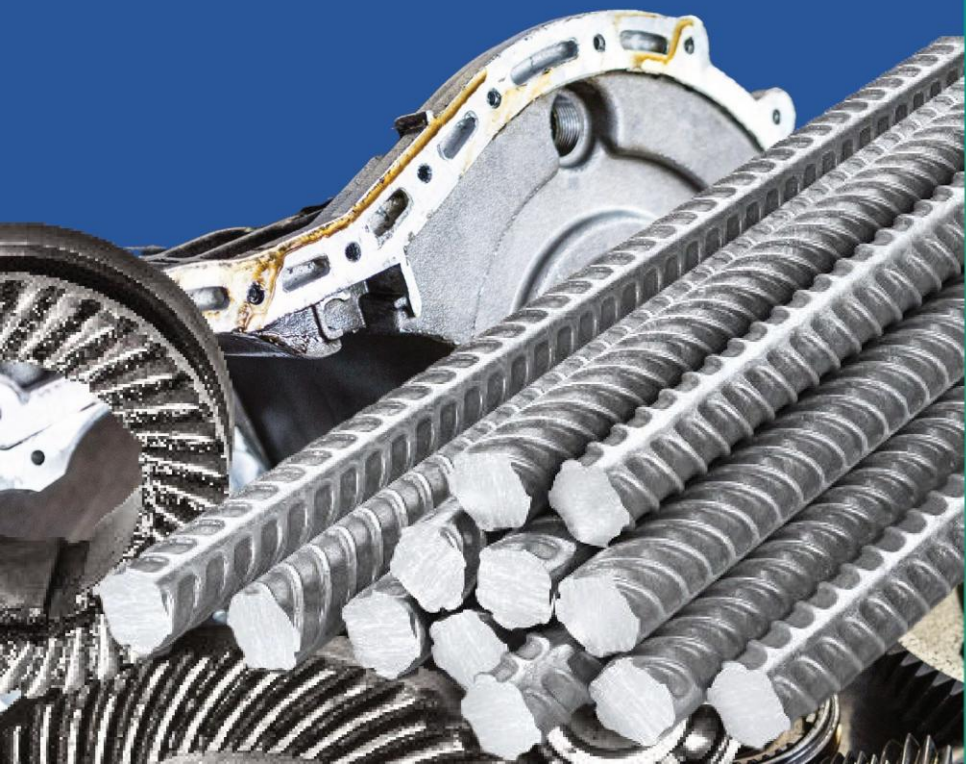


Manufacturing of Hollow and Solid Bricks



Concrete Manholes for Water or Sewage Systems

End-of-Life Vehicles Parts & Scrap



Recycling ELVs and scrap metal involves the systematic dismantling and processing of end-of-life vehicles and discarded metal materials to recover valuable components and raw materials.

The recycling process:

ELVs and scrap metal are gathered from sources like scrapyards and workshops. Dismantling facilities carefully disassemble vehicles to separate materials.

Different materials (steel, aluminum, copper, plastics) are sorted post-dismantling for further processing.

Scrap metal, including steel and aluminum, is shredded into smaller pieces for easier handling and recycling.

Recovered materials are sent to recycling facilities to be transformed into new products or raw materials for diverse industries.

Recycled Used Oil & Lubricant



The recycling processes for used cooking oil and used oil/lubricants are distinct due to their unique properties and origins.

Recycled Used Oil and Lubricant:

Coming from automotive engines, machinery, and industrial processes, used oil and lubricants are collected during maintenance and oil changes. After collection by authorized centers, used oil undergoes a re-refining process, removing impurities and contaminants for reuse. It can be further re-refined to produce base oil, utilized in crafting new lubricating oils, petroleum-based products, and lubricants.