



CLIMATE CHANGE VENTURES

Used Tires Recycling and Utilization Plant Middle East

Investment Opportunity

September 2026

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CLIMATE CHANGE VENTURES

Climate Smart Solutions

Advisory | Investment | Development

Project: Used Tires Recycling Plant – Middle East

Project Phase 1 – Used Tire Shredding Plant

Middle East | 2026

Project Name: Used Tire Recycling & Recovery Facility

Developer: A leading clean energy infrastructure developer

Project Type: Waste-to-Value | Circular Economy | Tire Recycling

- The country faces a pressing environmental and land-use challenge: over 50 million used tires are stockpiled across sites.
- The developer is developing a state-of-the-art tire recycling facility dedicated to shredding operations as **Phase 1** of the project. **Phase 2** will focus on pyrolysis operations to further process the recycled materials.
- The plant will process 100,000 tons of tires per year using advanced pyrolysis technology, converting waste into high-demand, exportable commodities:
 - Recovered Carbon Black (rCB) – Used in plastics, batteries, and inks
 - Steel Scrap – Sold to local and global metal markets
 - Rubber Granules
 - Fabric
 - Pyrolysis Oil – Alternative fuel for heavy industry (Phase 2)

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Overview of Local Used Tire Market

The expanding vehicle fleet and short tire replacement cycles are driving a steadily growing supply of used tires, coupled with government-led environmental initiatives that are accelerating the formalization of tire recycling, create a structurally attractive market opportunity for the proposed Project.

Key Highlights

- The local used tire market is underpinned by a large and growing vehicle, with the number of registered vehicles projected to increase at a CAGR of ~3% between 2025 and 2037, driven primarily by passenger cars.

Key Assumptions

	Passenger Vehicles	Truck/Heavy Vehicles	Two Wheelers
Tires per vehicle	4	8	2
Weight per tire (KG)	30	50	5
Tires replaced per annum	50%	75%	100%

Plant Capacity and Products

The plant will operate through interconnected stages handling mechanical transformations of the tire material, processing tires into rubber granules, steel wires, and textile.

Products	Typical Yield
Rubber Granules	65%
Fabric	15%
Steel	20%

Material Flow Summary

Input/Output	Quantity (t/a)	Comments
Tire Input	100,000	Raw tire feed (30% Truck tires & 70% Car tires)
Recovered Rubber	65,000	Granulated form (0-6mm)
Recovered Steel	20,000	Sent for cleaning and recycling
Recovered Textile	15,000	Compacted and stored

Strategic Green Industrial Opportunity in Middle East

Advancing Circular Economy, Carbon Footprint Reduction, and Long-Term Environmental Sustainability

Project SPV: SPV for Used Tires Utilization Project

Location: Middle East

Strategically located adjacent to a large existing stockpile, with secured feedstock supply supported by:

- Environmental License
- Manufacturing License

Project Model

Build-Own-Operate (BOO)

A long-term green industrial infrastructure investment designed for perpetual operations, supported by continuous generation of end-of-life tires and the country's commitment to sustainable waste management. The project will convert waste tires into high-value circular economy products, including:

- Rubber granules
- Recovered Carbon Black (rCB)
- Pyrolysis oil (Phase 2)

Timeline

Milestone	Target Date
Manufacturing License	Q1 2026 - Achieved
Land Allocation Approval	Q1 2026 - Achieved
Financial Close	Q4 2026
EPC & Construction	Q1 2027
Commercial Operations	Q4 2027

Key Investment Drivers

- **Secured Feedstock:** Over 200,000 tons of ready inventory
- **Strategic JV:** Partnership with a reputable large local company
- **Waste-to-Value:** Direct contribution to the country's sustainability goals
- **Export-Ready By-products:** Global demand from industrial buyers
- **High-Yield Investment:** 30% IRR with perpetual positive returns
- **Backed by Public Finance:** De-risked with European guarantees
- **ESG & Circular Economy Impact**

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