NASSER GROUP

Eco-Innovators, Industry Leaders

Company Profile

2024

www.cleancity-jo.com

NASSER GROUP

Tables Of Content

Innovating for a Sustainable Future

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Who Are We?

The parent company was founded by Mr. Ali Al-Wahdani, who served as a first-class mechanical technician at the Royal Court garages from 1957 to 1965. During this time, the first car designed for disabled individuals with special needs was invented, marking a unique achievement for its era.

Our History

1967

Mr. Ali Mustafa Al-Wahdani began inventing and producing vehicles for disabled individuals.

Our History

1971

The Nasser Group was established and obtained its registration certificate in 1971.

1985

The first metal waste container factory was established in the Middle East.

1992

A new market in the Middle East was established through the export of various types of waste containers, with the company registering several international patents for designing smart containers and compactors.

1995

A state-of-the-art waste collection vehicle was released through our production line.

1985

A new initiative, the first of its kind, was conducted as a community rehabilitation project in the southern region of the kingdom in cooperation with the Jordan Association for Local Development and Productivity in the field of waste recycling and management.

Our History

2004

Clean City for Waste Management Ltd. was established in 2004 as a company specializing in waste management and public cleanliness in major cities like Aqaba and Petra.

2005

We implemented a modern waste transfer station, enhancing waste management by consolidating and compacting solid waste for more efficient transport. This method significantly reduces environmental impact, benefiting locations such as GAM Transfer stations and Al Taibeh - Irbid.

2009

A state-of-the-art facility for the treatment of hazardous and medical waste through incineration was established in the Al Ghabawi area near Amman.

2014

The Best Arab Company in the Cleaning & Waste Management Field, Knight Award 2014 at Quality Knight Festival, as well as ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018 certifications.

2018

A new production line for manufacturing waste recycling and sorting equipment was launched by the company in Jordan.

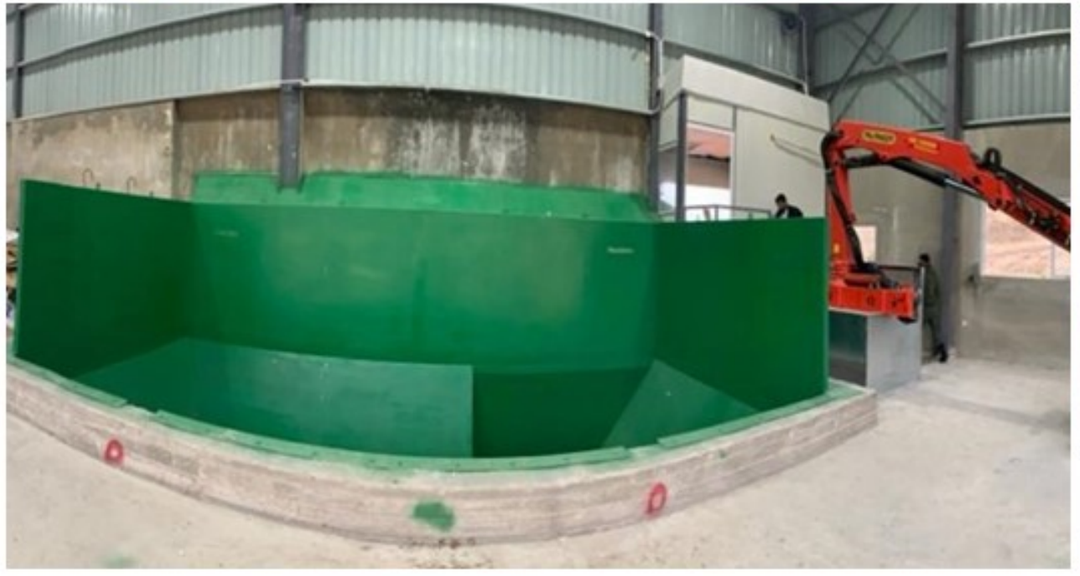
2020

Due to our company's expertise and professionalism in managing harmful waste, we were privileged to be the sole company in Jordan appointed by the National Center for Security and Crises Management to oversee all waste-related activities in Amman and the Dead Sea region.

2022

A unique factory, the first of its kind in Jordan, was established for recycling and sorting electrical and electronic waste.

Transfer Stations



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ELECTRONIC WASTE

Transforming E-Waste into a Sustainable Future!

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What is The
Electronic Waste

01

E-waste or Electronic Waste

is created when an electronic product is discarded.

02

E-waste is a Tool

to enhance the development and Hazard Management.

03

The E-waste Volume

is estimated around **53 millions** per Year.

The Significant Harmful Effects of E-Waste on Environment

01 E-waste releases toxic chemicals, causing air pollution.

02 Electronic products make up a million tons of waste in landfills.

03 Electronic devices negatively impact soil, water, and air.

04 The Components like flame retardants, barium, and lead negatively impact human health.

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for waste managment

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A BREAKDOWN OF THE CRITICAL

METALS IN A SMARTPHONE

Some vital metals used to build these devices are considered at risk due to geological scarcity, geopolitical issues or trade policy.

This infographic details the critical metals that you carry in your pocket.

ALKALI METAL | ALKALINE EARTH | TRANSITION METAL | BASIC METAL | LANTHANOID

TOUCH SCREEN

It contains a thin layer of **indium** tin oxide, highly conductive and transparent, allowing the screen to function as a touch screen.

49 In Indium

MICROPHONE, SPEAKERS, VIBRATION UNIT

Nickel is used in the microphone diaphragm (that vibrates in response to sound waves). Alloys containing **neodymium, praseodymium and gadolinium** are used in the magnets contained in the speaker and microphone. **Neodymium, terbium and dysprosium** are used in the vibration unit.

28 Ni Nickel
59 Pr Praseodymium
60 Nd Neodymium
64 Gd Gadolinium
65 Tb Terbium
66 Dy Dysprosium

DISPLAY

The display contains several **rare earth elements**. Small quantities are used to produce the colors on the liquid crystal display. Some give the screen its glow.

57 La Lanthanum
59 Pr Praseodymium
63 Eu Europium
64 Gd Gadolinium
65 Tb Terbium
66 Dy Dysprosium

ELECTRONICS

Nickel is used in electrical connections. **Gallium** is used in semiconductors. **Tantalum** is the major component of micro capacitors, used for filtering and frequency tuning.

28 Ni Nickel
31 Ga Gallium
73 Ta Tantalum

CASING

Nickel reduces electromagnetic interference. **Magnesium** alloys are superior at electromagnetic interference (EMI) shielding.

12 Mg Magnesium
28 Ni Nickel

BATTERY

The majority of smartphones use **lithium**-ion batteries.

3 Li Lithium
27 Co Cobalt
28 Ni Nickel

CLEAN CITY for waste managment

Recycling E-Waste Process

Smart And Strong Solutions

Recycling e-waste, or electronic waste, is a process that involves systematically collecting, dismantling and processing discarded electronic devices to recover valuable materials and minimize environmental impact. The recycling e-waste process typically includes the following steps:

01

Electronic Waste

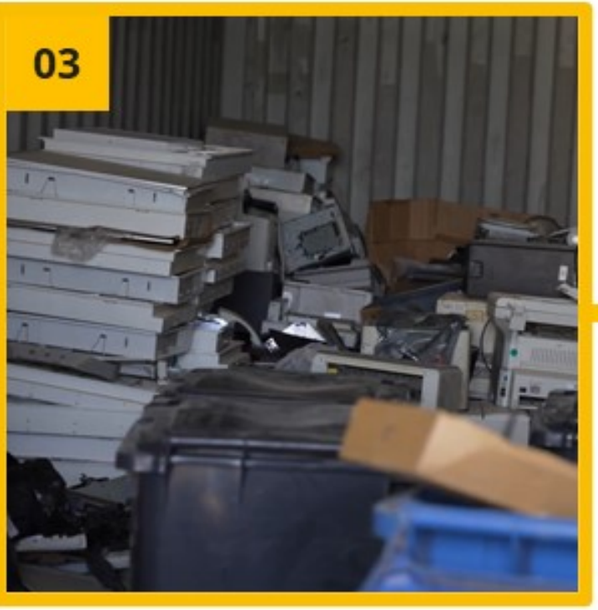
E-waste collection begins with the use of designated containers placed in various locations, such as recycling centers, businesses, and households, to encourage the proper disposal of electronic devices.

02

Transportation

Collected e-waste is transported from the collection points to specialized recycling facilities using appropriate vehicles equipped to handle electronic devices safely.

03



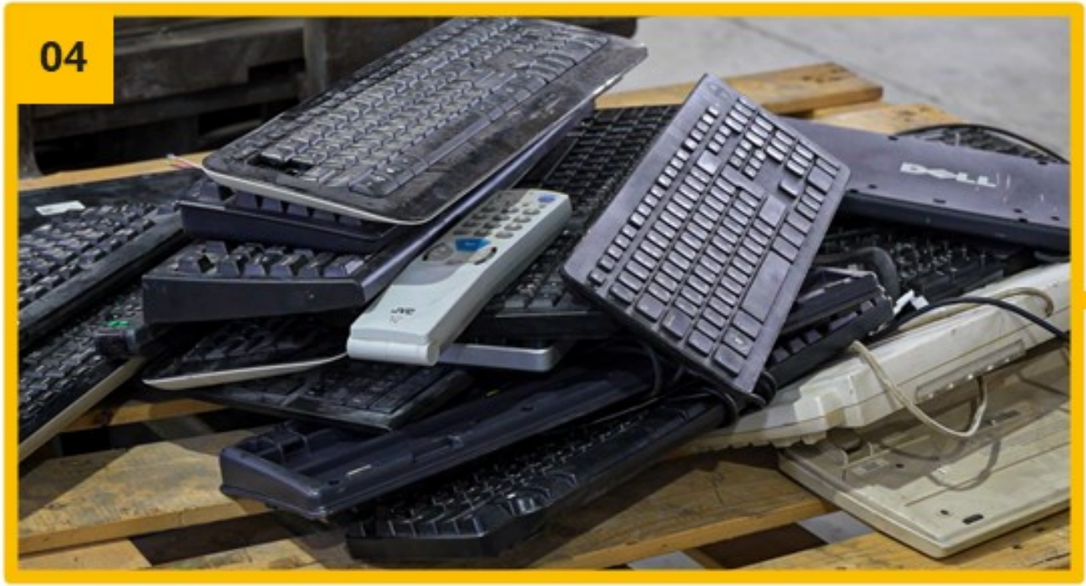
Collection

Upon arrival at the recycling facility, the e-waste is further sorted to eliminate any non-electronic items, ensuring that only relevant materials are processed in the recycling stream.

Recycling E-Waste Process

Smart And Strong Solutions

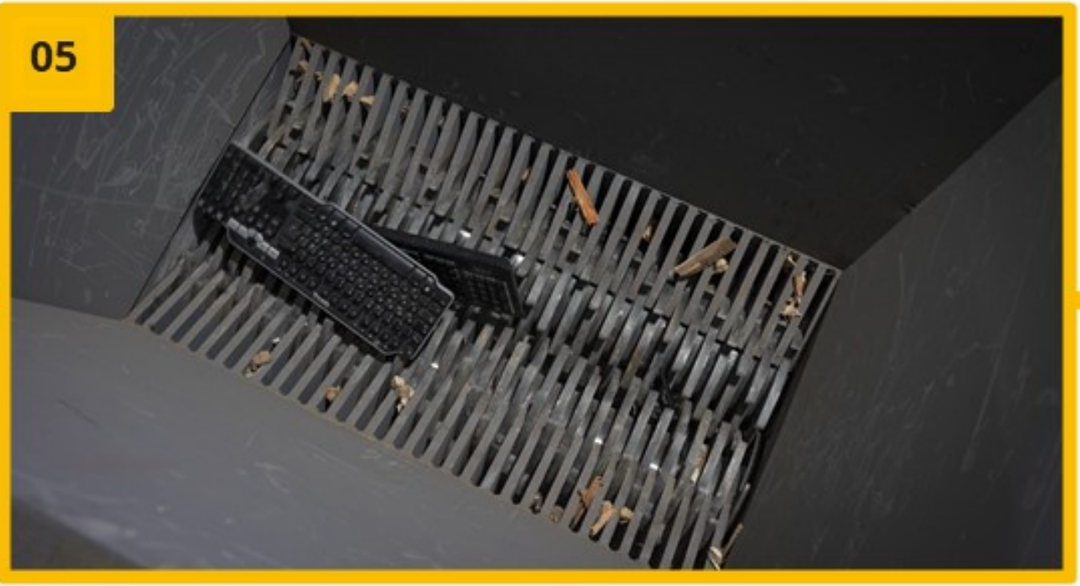
04



Sorting

The e-waste is sorted into different categories based on the type of electronic devices and materials. This step helps in organizing the materials for efficient processing.

05



Dismantling & Shredding

Electronic devices are dismantled to extract valuable components, such as circuit boards, batteries and wiring. The materials are then shredded into smaller pieces to facilitate further processing.

Recycling E-Waste Process

Smart And Strong Solutions

06

Recycling

Shredded materials undergo various recycling processes. Metals like copper and aluminium are separated through magnetic and eddy current separation, while precious metals may be extracted through chemical or smelting processes.

07

Metal Powder

Palladium (Pd)

Plastic

Copper (Cu)

Other recovered Materials

Final Products

The recycled materials are transformed into final products or raw materials that can be reintegrated into the manufacturing supply chain. This could include new electronic components, metal alloys, plastics, or other materials ready for reuse.

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E-Waste Recycling Solutions & Products

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for waste managment

E-Waste Mobile App

The Best App for E-Waste Management

This application was established and issued by our company in order to facilitate the collection, Transportation and Handling issue of various categories of waste including E-waste between the company staff and the waste producer in order to effectively utilize the time needed to finalize the waste transportation and handling accordingly

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E-Waste Recycling
Machines & Equipment's

Dismantling & Shredding

All Types of Machineries and equipment specialized for E-Waste recycling are manufactured by our company through our well experienced staff in is also one of our products and services of the E-Waste project.

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E-Waste Recycling
Machines & Equipment's

Sorting Stage

The Best Containers

The dedicated machineries and equipment for E-Waste recycling includes Shredders, Conveyor Belts, Magnetic Separators, Pressers and other specialized equipment.

E-Waste Recycling
Machines & Equipment's

Dismantling & Shredding

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Our E-Waste Recycling Machine for The Royal Hashemite Court

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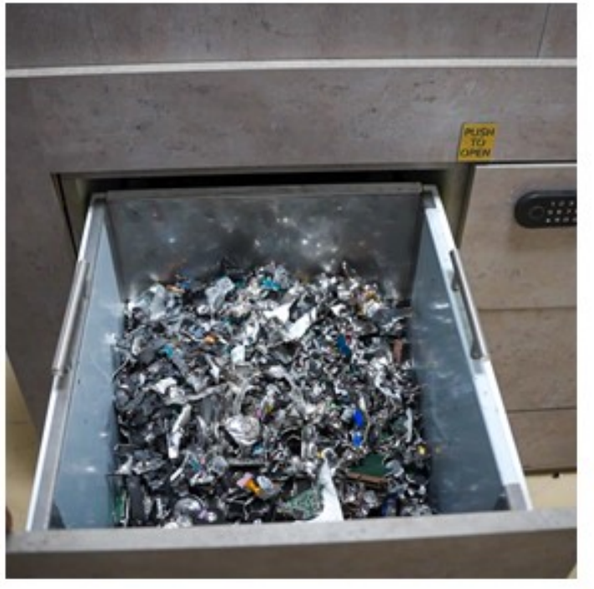
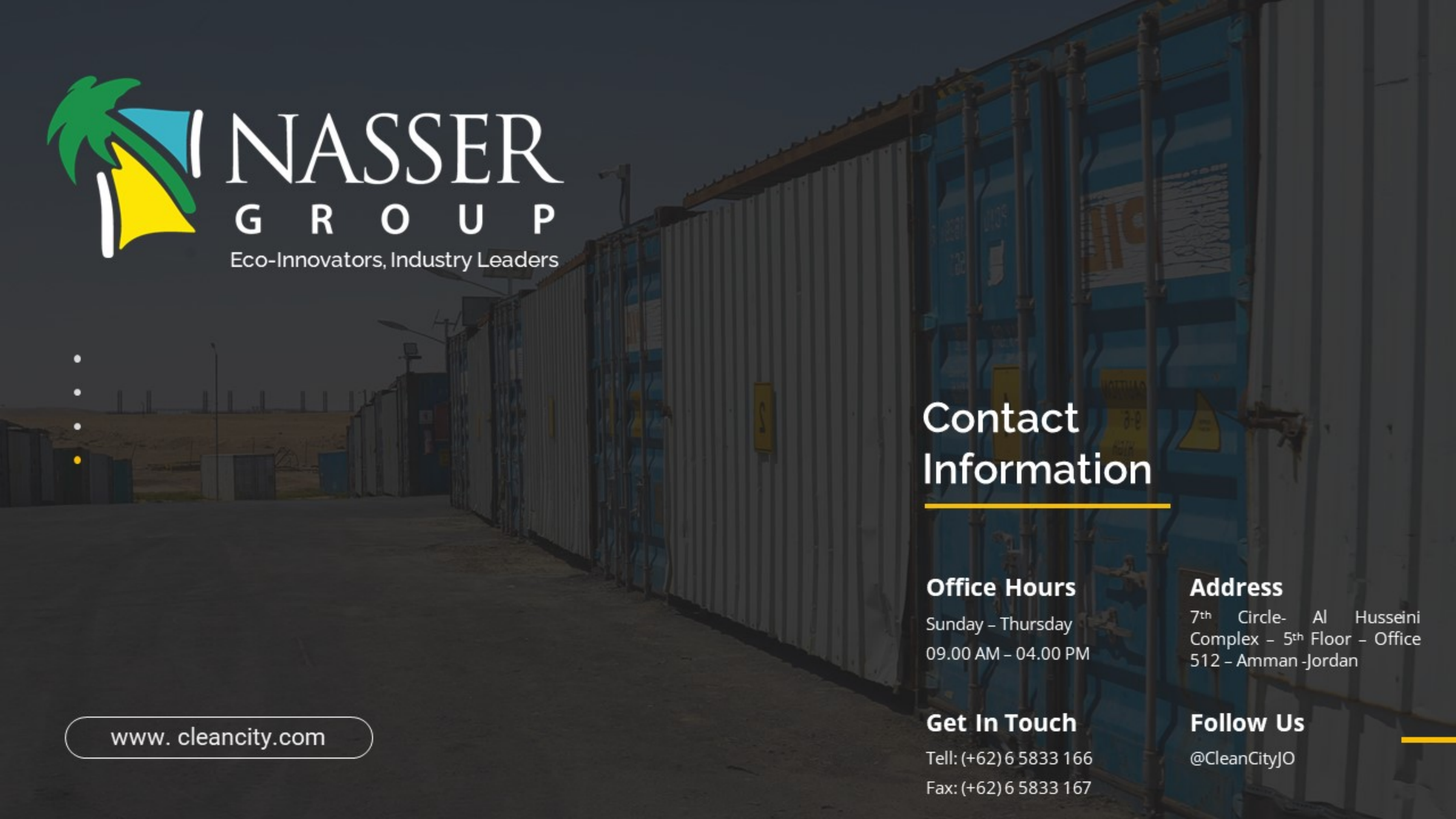
E-Waste Recycling Machine

Smart And Strong Solutions

E-waste recycling machines are specialized equipment designed to automate and streamline the process of recovering valuable materials from electronic waste. These machines play a crucial role in modern waste management practices by efficiently handling the complexities of electronic device disassembly and material separation.





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GROUP
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