FICCI

Resource Efficiency and Circular Economy Industry Coalition

RECEIC Awards on Resources Efficiency & Circular Economy

SULOCHANA

Sulochana Cotton Spinning Mills

“A Sustainable Textile value Chain”

Award Category - Circular Business Models Matured

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Sulochana Cotton Spinning Mills P Ltd

(8 Decades of Sustainable Legacy)

- Converting 7Millions of pet bottles into 135 tons of dope dyed polyester fibres everyday
- Shredding 8 tons of pre-consumer cotton every day
- Spinning 65Mt of Melange yarns every day
- Producing 20 tons of kittted fabrics every day
- Making 18,000 pieces of Knitted garments everyday

BSCI Business Social Compliance Initiative

SOCIAL & LABOR CONVERGENCE

Higg Index

OEKO TEX®

OEKO TEX® ORGANIC COTTON

Sedex

COTTON MADE IN AFRICA

FAIRTRADE

GLOBAL ORGANIC TEXTILE STANDARD · GOTS ·

ORGANIC BLENDED content standard

bci better cotton initiative

regenagri Regenerative certified

RECYCLED 100 claim standard Certified by USB USB TEX 5711

RECYCLED BLENDED claim standard Certified by USB USB TEX 5711

Global Recycled Standard

OCEAN BOUND PLASTIC CERTIFIED

Sulochana's Sustainability Journey

1938
N Murugan Chettiyar started with Cotton Trade, sourcing cotton from diiferent parts of TN and distributing to Gujarat

1954
N Shanmugam Chettiyar joined and the business became major traders of cotton and cotton seed

1990
MD Krishnakumar took charge and spinning mill with a capacity of 6000 spindles was started to produce melange yarns,

1995
Expanded to 12000 spindles

1996
Entered renewable energy generation for our facilities by establishing our first wind mill farm

2000
Thudiyalur spinning mill acquired with 25000 spindles

2006
Chithambalam spinning mill with 50000 spindles installed and came into operation

2010
One of a kind polyester staple manufactured from PET bottles introduced. Sulochana's first step towards greener manufacturing practices

Dope dyeing technology tthat consumes very less water compared to conventional dyeing adopted

2013
Acquired Kallipayam facility with 15000 spindles

2014
Solar plant installation

2018
Dindugal Spinning unit with 40000 spindles established.

Investments on ring spun cotton recycling infrastructures made which was a first in the industry initiative.

ETI(Ethical Trade Initiative) Certification for facilities

2019
Became a member of Textile Exchange and actively started implementing sustainability initiatives

2020
Carbon Footprint assessment performed

2021
- Accounted our Scope 3 emission for 9 categories
- Published our first Sustainability report
- Renewable Energy capacity of 31.5 MW

2022
- LCA study for our yarn based on a cradle-to-gate approach.
- Implemented SAAS based software for capturing the environmental, social and governance data
- Started production of recycled polyester filament yarn

2023
- Avoided emission accounting
- Publishing ESG report based on international reporting frameworks
- 92 % energy comes from renewable source for production.

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Problem Statement :

Energy Crisis, is a situation where a country or region cannot produce or access enough energy to meet its needs. This can affect:

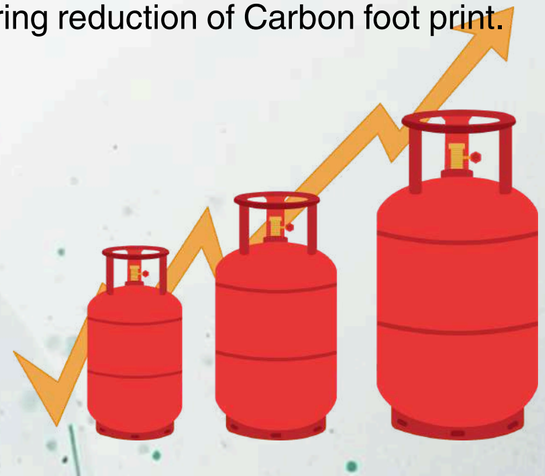
- Households (power cuts)
- Industries (reduced production)
- Transportation (fuel shortages)

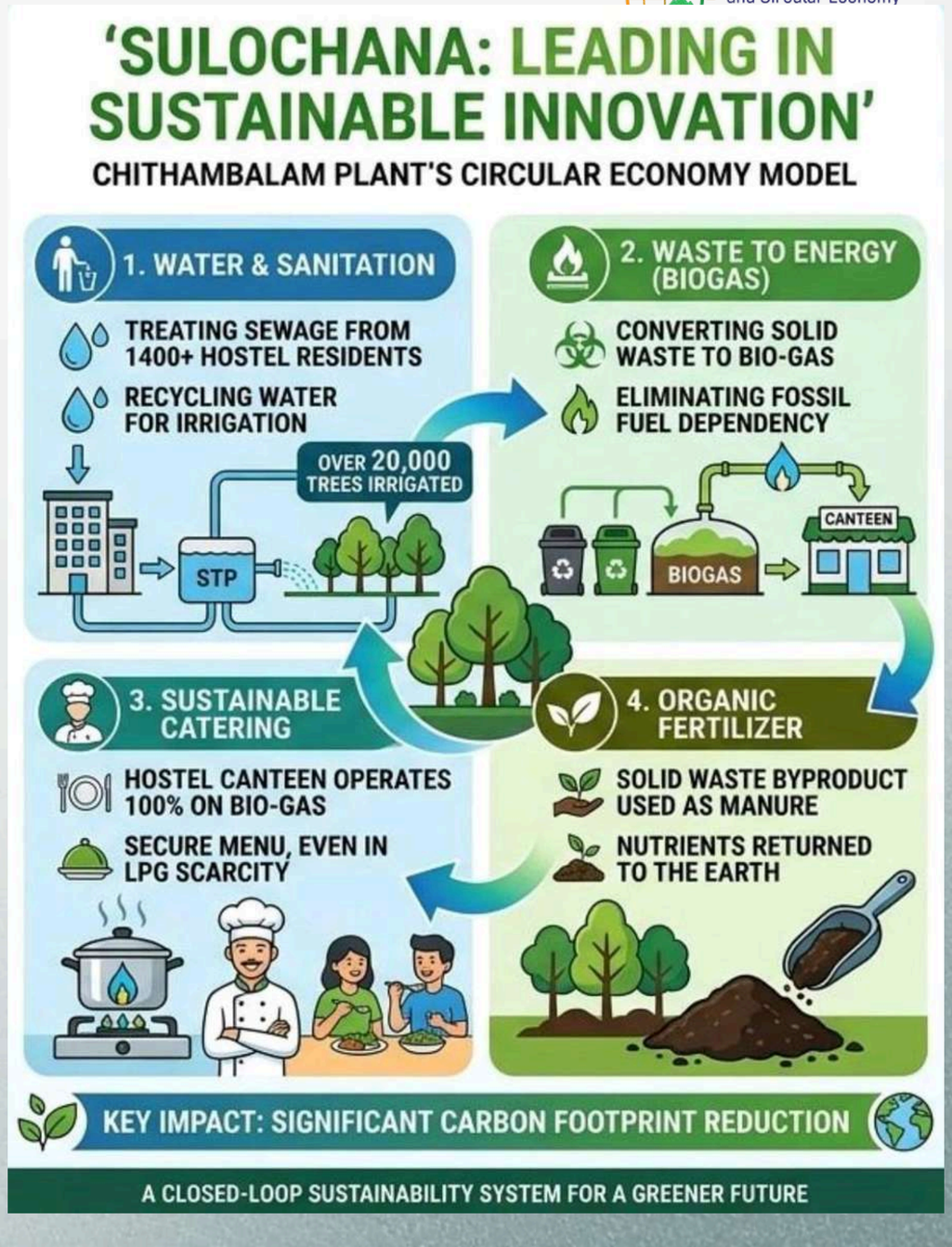
The main cause anyone generaly say is overdependence of fossil fuel but, Sulochana say it is because ignorance and Poor Energy Management.

Solution :

Renewable Energy is not a fancy term but is basic sustainable practice anyone should adapt.

Our Chithambalam Plant houses more than 1400 people in the Hostel and we were generating lots of sewage everyday. In 2016, we installed sewage Treatment Plant, where the sewage water gets recycled and used to irrigate more than 20,000 trees. The Solid waste after generating Bio-gas is used as manure for the trees. Our Hostel canteen for 1400 people operates 100% on Bio-gas, totally eliminating our dependency on LPG or any other Fossil fuel in our Canteen. Sulochana Stands out an example for using sustainable fuels and even in the crucial times, our menu is not changed due to the scarcity of LPG, ensuring reduction of Carbon foot print.





Solution Circular Economy strategy &Approach & Methadology

1. Circular Product Design with durability, modularity & recyclability in mind
2. Materials & Resource Management
3. Recycling & Reuse Initiatives
4. Waste Reduction & Zero Waste Targets
5. Circular Supply Chain
6. Customer Engagement
7. Innovation and Research
8. Stakeholder Engagement
9. Future Goals & Commitments

Our sustainability approach is underpinned by the following key pillars:

Innovation & Product Responsibility

Continuous Improvement

Employee Well-being & Diversity

Community Engagement

Transparency & Accountability

Ethical Sourcing & Supply Chain Responsibility

Environmental Stewardship

Sulochana’s Innovation & disruptive technologies to enable your circular economy strategy.

Every bottle which is recycled comes with a cap, made of PP (Poly Propylene) and a label which is made of PVC (Poly Vinyl Chloride). both these materials can't be used in recycling. Daily 7 Million Bottle caps & Labels will be end up in landfill if its not responsibly recycled. We convert PP caps into pellets which is raw material for Plastic industry and PVC labels are send to cement industry to generate energy

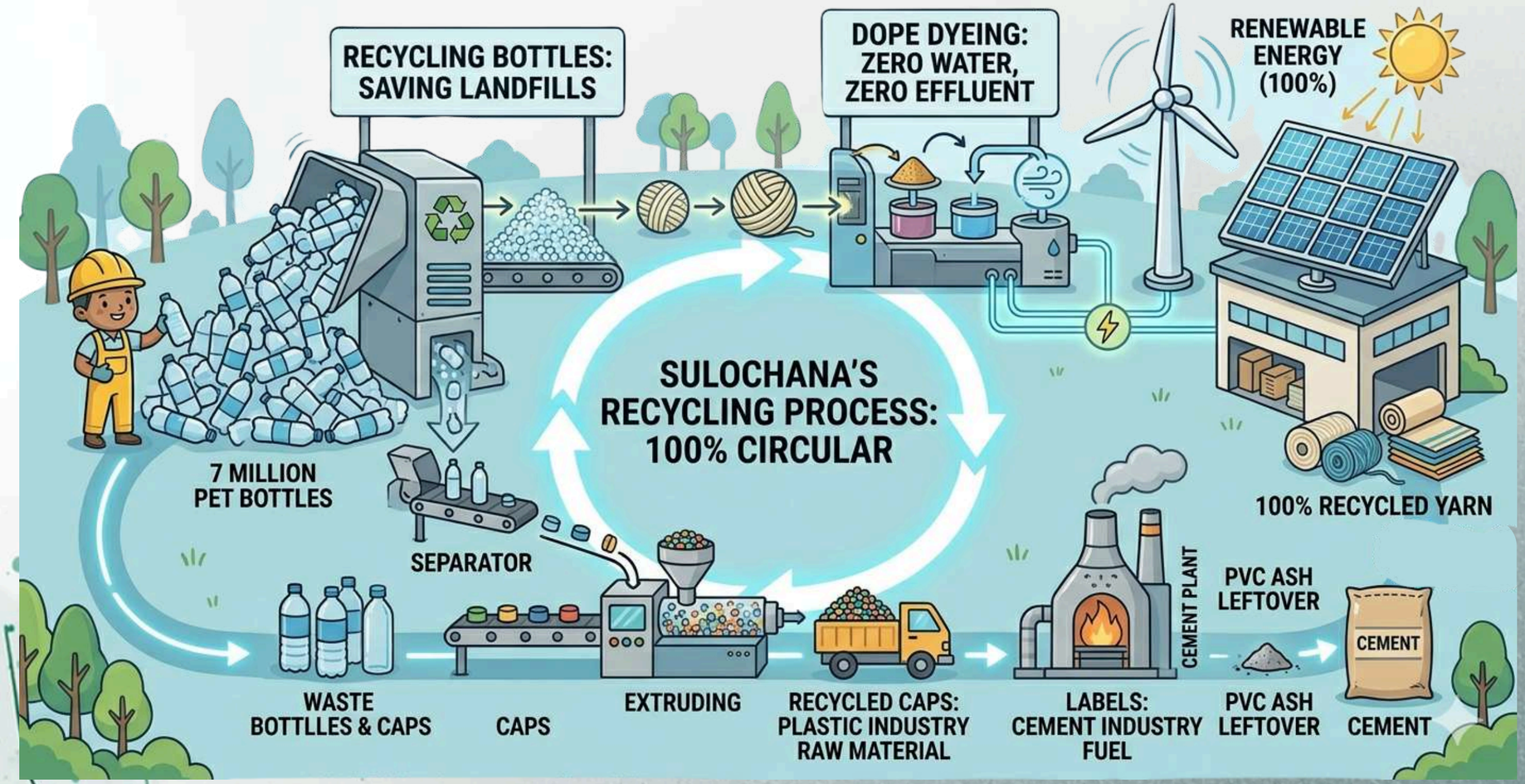
We don't just manage waste; we provide alternative to petroleum-based polyester. Transforming PET / textile scraps into fiber, reduces dependency on virgin material and avoids landfill

Disruptive Technologies

Water Saving: With Dope dye technology every day 9 million liters of water saved.

Carbon Avoidance: Carbon footprint is lower due to renewable energy and non-fossil fuel raw material

Landfill diversion : Every year almost 2.1 Billion Post consumer PET bottles are avoided from landfill



Solutions- Stake Holders Involved & Investment made

Sulochana operates at 100% Renewable energy 94% Wind & 6% Solar.

In 2019, Based on **GHG Audit** conducted by **South Pole** of Switzerland, we have already **neutralized 94.85%** of GHG Emission. Which motivates us to work on target to acheive **100% carbon neutral by 2027.**

Almost 150 crores has been invested on land, plant and machinery and this generates revenue of more than Rs. 200 crores. . Further investment of to the tune of Rs. 75 crores is being planned for installation of Thermo-mechanical recycling of Polyester Post Industrial Textile waste into fibre and filaments

Status Dashboard - ESG Report 2023

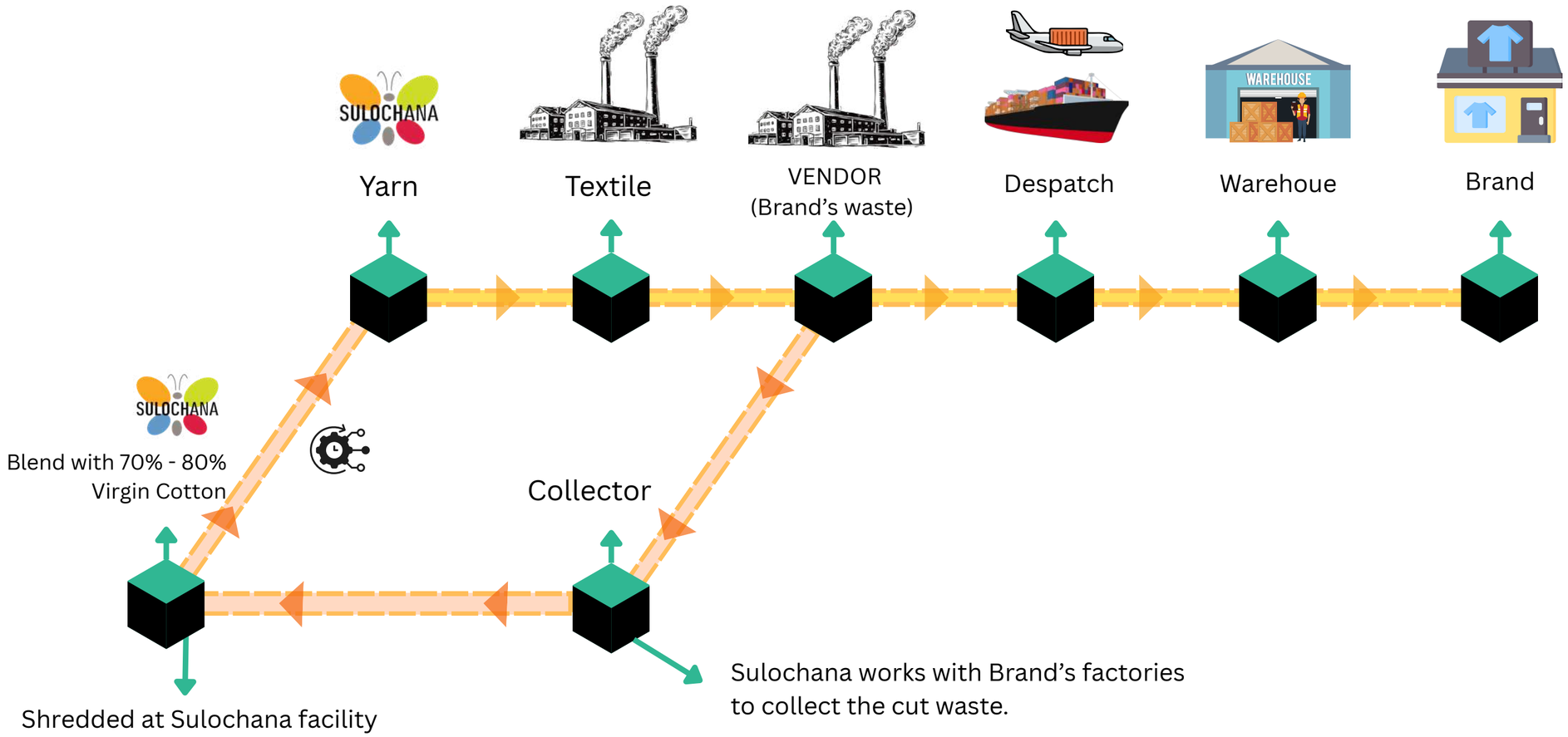
Misssion	Target	FY 22-23 status
Energy	100% Renewble Energy	92%
Water	Water Positive	38% of total water is recycled back into process 95% of total water discharged is used for Irrigation
Climate strategy	Net zero emissions from Scope 1 and Scope 2	85% scope 1& 2 emissions avoided.
Circular Economy	Zero waste to land Fill	More than 95% waste generated diverted from landfill
Sustainable products	Higg Assessment for own factories 100% percentage of product has atleat 1 sustainable attribute	FEM assessment for Spinning, Polyester and Garment divisions 100% percentage of product has atleast 1 sustainable attribute

NET ZERO 2027

Circularity-Recycling cotton waste into fibre and yarn

Everyday, we are recycling 10 tons of fabric cut waste. This cutwaste materials collected from Brand's and brought back to their supply chain as brand new product.

Recycled Cotton+ Virgin Cotton - Overview



Pillar 2: Circular Economy & Resource Efficiency

2.1 Innovation & Circularity

- Our Research and Development division is dedicated to creating innovative, sustainable blends:
- A recent breakthrough is our biodegradable polyester, which has been shown to biodegrade by 94% in just 20 months—a stark contrast to conventional polyester, which takes centuries.

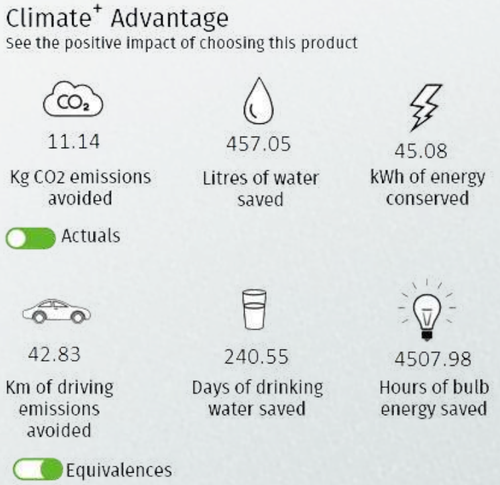
2.3 Environmental Performance

Our recent LCA of recycled polyester staple fibre vs. virgin polyester shows:

- GHG emissions reduced by 95%
- Energy usage reduced by 78%
- Blue water usage reduced by 99%

2.2 Efficiency in Operations

- Our energy needs are met entirely through renewable sources, including wind and solar
- We are actively reducing our carbon footprint by implementing green initiatives and decarbonizing electricity use
- **Goats grazing in factory is saving energy used of electric grasscutter and eliminate use of harmful pesticides**



CSR (Corporate Social Responsibility)

Animal Welfare Shelter

Green Initiative

Sulochana Pharmacy

Sulochana Diagnostic centre

Aligning With SDG GOALS

SUSTAINABLE DEVELOPMENT GOALS

3 GOOD HEALTH AND WELL-BEING

6 CLEAN WATER AND SANITATION

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

17 PARTNERSHIPS FOR THE GOALS

Awards & Recognition

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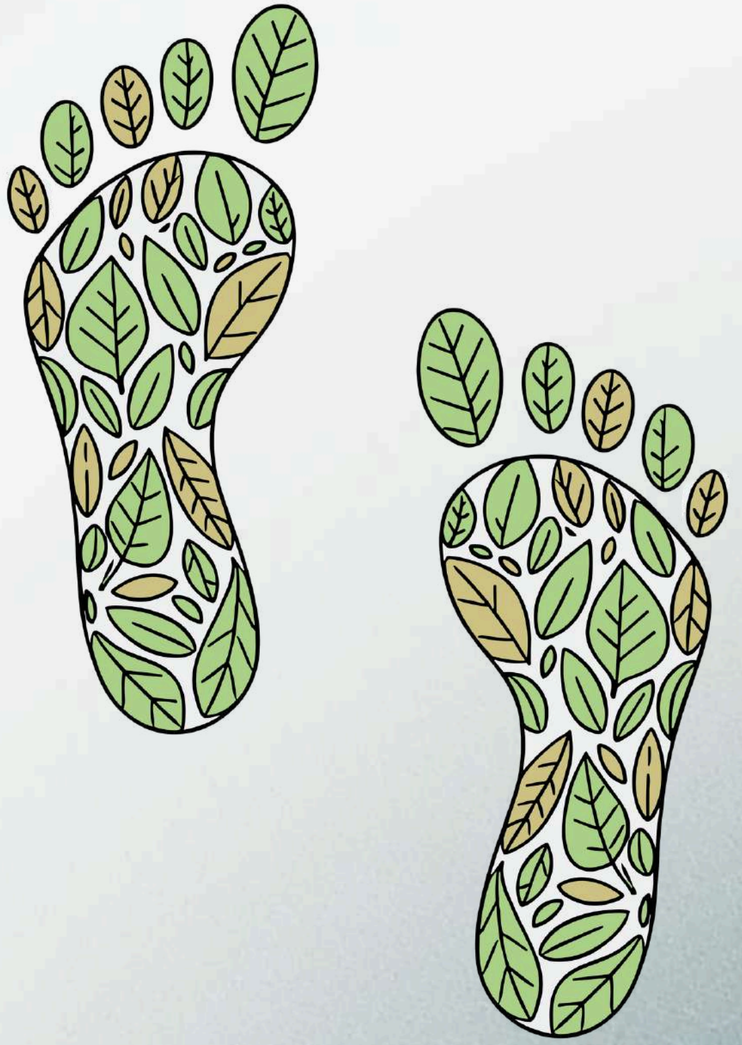
thank you!



“Leave Greener Footprints for Future Generation”