

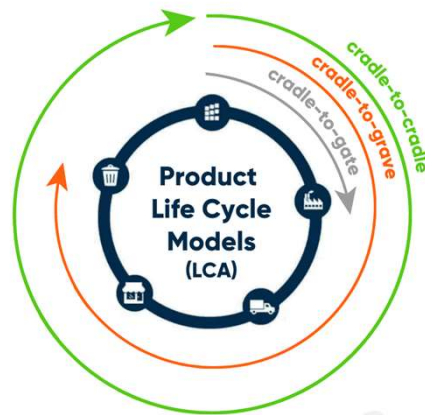
# Decarbonization - C2G



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- Cradle to Gate
- Cradle to Grave
- Cradle to Cradle



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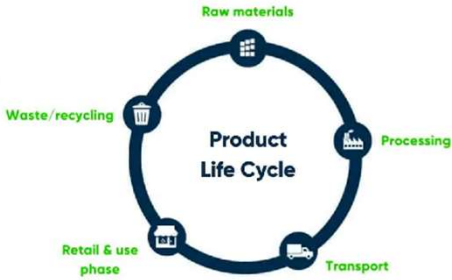


# Roll of LCA in Assessment

LCA Assesses Environmental impacts in each stage of Life cycle of a product.

Ascertain Environmental impact savings on GHG, Energy & Blue water

The different phases in a Product Life Cycle (LCA)



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# Who are we ?

A Socially & Environmentally conscious company that produces over 200 tons of Yarn & Fibre in a day.

## 8 DECADES OF COMMITMENT

 <p><b>1,60,000</b> Spindles 80 tons of melange &amp; raw yarn / day</p>	 <p><b>7 Million</b> Recycle PET bottles everyday, 140 tons RPSF/day</p>
 <p><b>29</b> Windmills</p>	 <p><b>600</b> Stitching machines</p>
 <p>Renewable energy solar &amp; windmill</p>	 <p><b>3.5-500k</b> Garments per month</p>

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# Process Sustainability



### 100% Renewable Sources

-  **94%** from renewable energy by wind
-  **6%** from renewable energy by solar

-  **94%** Carbon Neutral (GHG accounting for year 2020 by South Pole, Switzerland)
-  **100% by 2027** we aspire to be Carbon Neutral

### Traceability

  
 GROWERS

  
 RAG PICKER

  
 BALE UNIT

  
 LARGE VENDOR


  
 SULOCHANA MILLS

BLOCKCHAIN DISTRIBUTION  SINGLE VERSION OF TRUTH




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# Sustainable Fibres of Sulochana



### RECYCLED POLYESTER

-  **96%** less GHG emissions
-  **78%** less energy
-  **96%** less blue water consumption

### ECOESPIN COTTON

-  **98%** less GHG emissions
-  **68%** less energy
-  **100%** less blue water consumption

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# Bottle to Fiber



**130MT**  
of Dope dyed Fibre every day



**7M bottles**  
recycled everyday



**Dope Dyeing**  
9M Liter against Conventional dyeing



**POY/DTY/ATY**  
first to dope dye in South India

BENEFITS	FY 21-22	FY 22-23
Avoided emissions in tCO <sub>2</sub> e	55624	64604
Energy reductions in GJ	1392374	1617149
Water saved in ML	658	763
PET bottles diverted from disposal in Millions	949	1103

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# Environment Impact Savings



## Climate+ Advantage

See the positive impact of choosing this product




<b>11.14</b> kg CO <sub>2</sub> of emissions avoided	<b>457.05</b> Litres of water saved	<b>45.08</b> kWH of energy conserved
<input checked="" type="checkbox"/> Actuals		
<b>42.83</b> km of driving emissions avoided	<b>240.55</b> days of drinking water saved	<b>4507.98</b> Hours of bulb energy saved
<input type="checkbox"/> Equivalences		

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# Product Sustainability



Impact data 55% Recycled Cotton /45% Recycled Polyester vs 55% Conventional Cotton /45% Virgin Polyester


Impacts per kg Apparel	Blend	Conventional Blend	Percentage difference
GHG emissions (KgCO <sub>2</sub> e) 	0.8	20.4	-96.1%
Energy (MJ) 	71.8	361	-80.1%
Blue water consumption (Litres) 	4.4	777	-99.4%

As per LCA study vetted by Greenstory, Canada

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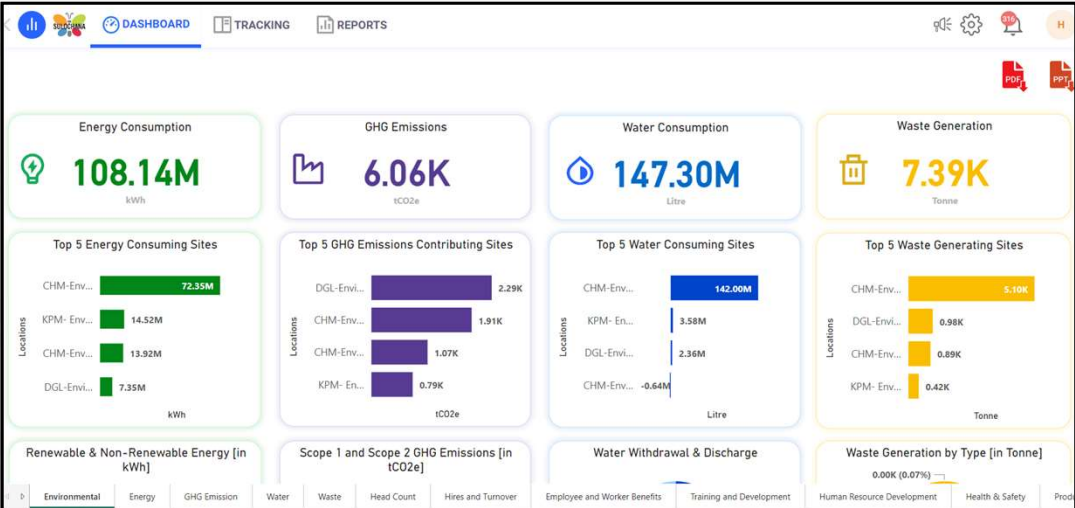
# ESG Tool



ESG Dashboard

Tracking of Environmental, Social and Governance data

Reports based on international frameworks



Energy Consumption: 108.14M kWh

GHG Emissions: 6.06K tCO<sub>2</sub>e

Water Consumption: 147.30M Litre

Waste Generation: 7.39K Tonne

Top 5 Energy Consuming Sites:

- CHM-Env...: 72.35M kWh
- KPM-Env...: 14.52M kWh
- CHM-Env...: 13.92M kWh
- DGL-Env...: 7.35M kWh

Top 5 GHG Emissions Contributing Sites:

- DGL-Env...: 2.29K tCO<sub>2</sub>e
- CHM-Env...: 1.91K tCO<sub>2</sub>e
- CHM-Env...: 1.07K tCO<sub>2</sub>e
- KPM-Env...: 0.79K tCO<sub>2</sub>e

Top 5 Water Consuming Sites:

- CHM-Env...: 142.00M Litre
- KPM-Env...: 3.58M Litre
- DGL-Env...: 2.36M Litre
- CHM-Env...: -0.64M Litre

Top 5 Waste Generating Sites:

- CHM-Env...: 5.10K Tonne
- DGL-Env...: 0.98K Tonne
- CHM-Env...: 0.89K Tonne
- KPM-Env...: 0.42K Tonne

Renewable & Non-Renewable Energy [in kWh]

Scope 1 and Scope 2 GHG Emissions [in tCO<sub>2</sub>e]

Water Withdrawal & Discharge

Waste Generation by Type [in Tonne]: 0.00K (0.07%)

Navigation: Environmental, Energy, GHG Emission, Water, Waste, Head Count, Hires and Turnover, Employee and Worker Benefits, Training and Development, Human Resource Development, Health & Safety, Prod

Capture all attributes of ESG on a SAAS based portal which can be looked upon on different Reporting formats like GRI, BRSR, TFC, SDG etc.

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# ESG Reporting



## BRSR

Business Responsibility & Sustainability reporting

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# SDG Goals



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# Environmental



**Rain water Harvesting**



**Sewage Treatment Plant**



**Goats Eliminate Grass Cutters**

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# Awards



**Winners of FICCI – Award  
Best Circular Business Model – 2023**



**CITI – RR Recycler Award  
Best Recycler – 1<sup>st</sup> Runner up**



**Winners of CITI – Awards  
Best Alternate Material**

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# Business Sustainability



Sustained Growth



We grew along with Tirupur



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ECOESPIN

Leave Greener  
Footprints For Future  
Generation

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