



# Closed Loop Of Waste Management

## Team ABFRL

1

# Closed Loop Of Waste Management

### Trigger

Sustainability 2.0 - from 'Process-led to Product-led', with a 2025 agenda focusing on product design and development, customer centricity and supply chain.

### Uniqueness Of The Project


- Carton Box to Plastic (Multiple time usage)
- One tag One garment
- Bio degradable polybags
- Fabric minimization
- Customized software named as Grid
- Digester


Process / Month	Plan/Actual	Quarter 1			Quarter 2			Quarter 3			Quarter 4		
		Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22
Project	Plan												
Identification	Actual												
Prioritization	Plan												
Matrix	Actual												
Potential	Plan												
Solution	Actual												
Trial Run	Plan												
Actual	Actual												
Incorporation of	Plan												
learnings from	Actual												
Bulk	Plan												
Actual	Actual												
implementation	Plan												
Horizontal	Actual												
Deployment	Actual												


2

**ADITYA BIRLA FASHION & RETAIL**  
**Retearth**


**Intangible Benefits**


**GHG Reduction**  
- 561.729 tonnes 


**Energy Savings**  
-97692 kWh 


**Water Savings**  
- 48.846 million liter 

**Tangible Benefits**

**Carton Box to Plastic Crates**  
- 114 lakhs 

**Trolleys to Carton (Jackets)**  
- 49 lakhs 

**Fabric Savings through CAD**  
- 24423 mtrs 

**One Tag  
One Garment**  
- 23 lakhs 

3


**ADITYA BIRLA FASHION & RETAIL**  
**Retearth**

**Replication Potential**


- ABFRL Manufacturing units
- Internal & external forums

**Spreading Benefits**


- Next Quarter – Denims, T-shirts
- Upcoming Units
- Central warehouse




Before



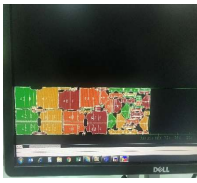
After




One garment  
One tag



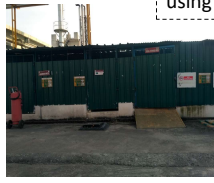
Food waste to Resource



Marker Output  
using Accunest





Grid Software



Designated Area

4

## Challenges

**Cross Functional Project**  
- Involvement b/w various team to attain on a single point

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**Customization of Polybags**  
- Unique design features of poly cover for different products (Eg: Suits, Trousers)

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**Vendor Unavailability**  
- Selection of stable / trustable vendor

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**Capex Involvement**  
- Call for funds for moving to Bio-degradable bags

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**Lack of standards & Lab in locality**  
- Lack of standards & laboratory in the nearest locality

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**Transparency Issue**  
- Polybag cover was not too transparent and it hinders the design requirements of polybags

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**Process Re-engineering**  
- Adopting to new process

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**Raw Material Unavailability**  
- Compostable raw material availability


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5





## Environmental Performance

Environmental Parameters	Actual
Units / product	0.43
Solar Savings (in lakhs)	42.98
Solar Generation (in MWh)	2105
Scope 1 emissions	878
Scope 2 emissions	5536
LPCD	26.46
Recycled Water (in million liters)	100.27
Captured Rainwater (in m3)	8844
Rainwater Artificial Recharge (in million litres)	91.993
Waste Recycle / Reuse (in %)	86.87



**Water Positive**  
Water Credit > Water Debit



**LPCD Reduction**  
13% reduction in FY 23

**Sustainability Disclosures**  
Disclosure in Annual Sustainability Report

-22

lakh units solar power generated leading to a reduction of more than 1,721 tonnes of CO<sub>2</sub>

33%

of our total energy requirement is met through Renewable Energy Sources

6

## Priority Plans

**Circular Economy**  
- Scaling up for Circular economy program

**Waste Traceability**  
- Responsible for final destination and to take progressive measures (FY 24)

**Back to Premises**  
- Upcycling / Recycling product to come back into our manufacturing process.

**Vendor Capacity**  
- Vendor capacity to be improved on an average, 45+ lakhs of units needs to be managed in a month

**Crates/ Trolleys from Central Warehouse to Retail Store**  
- Replacement of carton box to crates or trolleys to retail stores

**Waste to Resource**  
- Producing bags through conversion of fabric waste to retail shopping bags

7

**Energy**

- Renewable Energy
- Energy Efficient Module
- SBTi
- Decarbonization

**Water**

- Digital Water Management
- Harvesting rainwater
- Enhancing reuse of treated water

**Waste**

- Circular Economy
- Waste Traceability
- Resource Minimization

**Green Building**

- Certified Green Building across all the ABFRL facilities
- Low carbon built environment

## Priority Plans

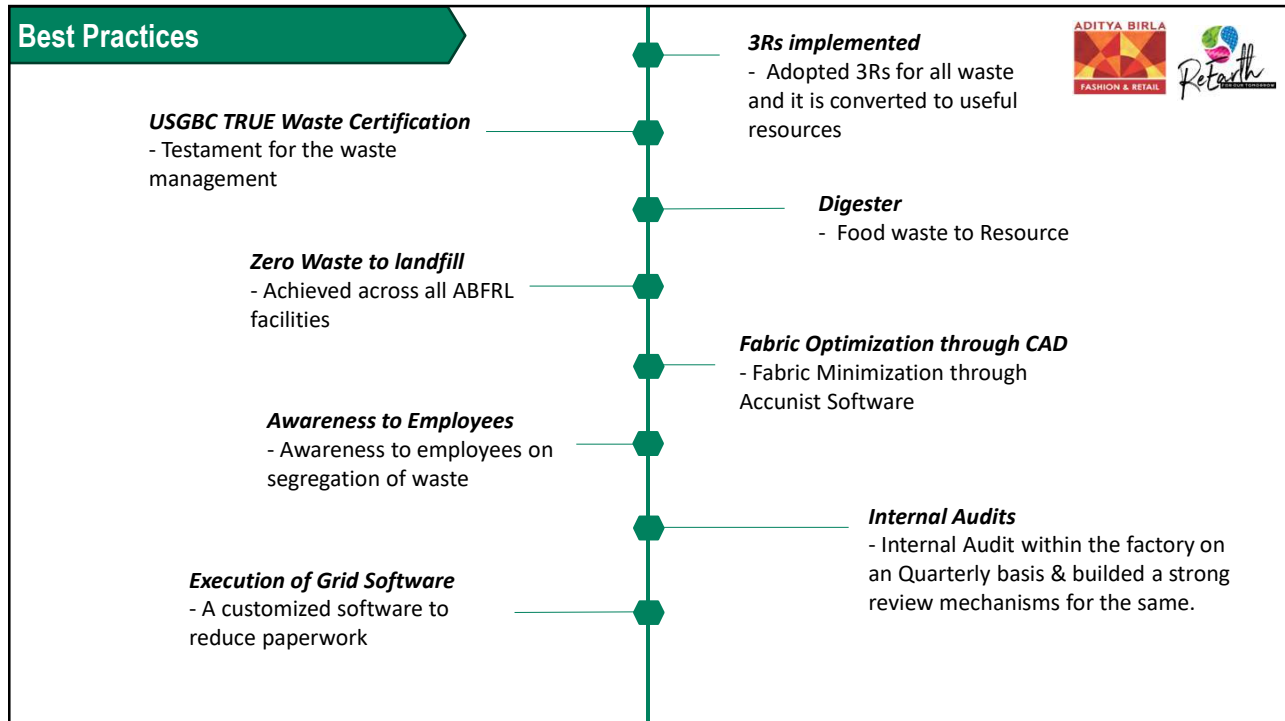
**Energy**  
- Renewable energy across facilities

**Water**  
- Water positive to envisage Net Zero strategy

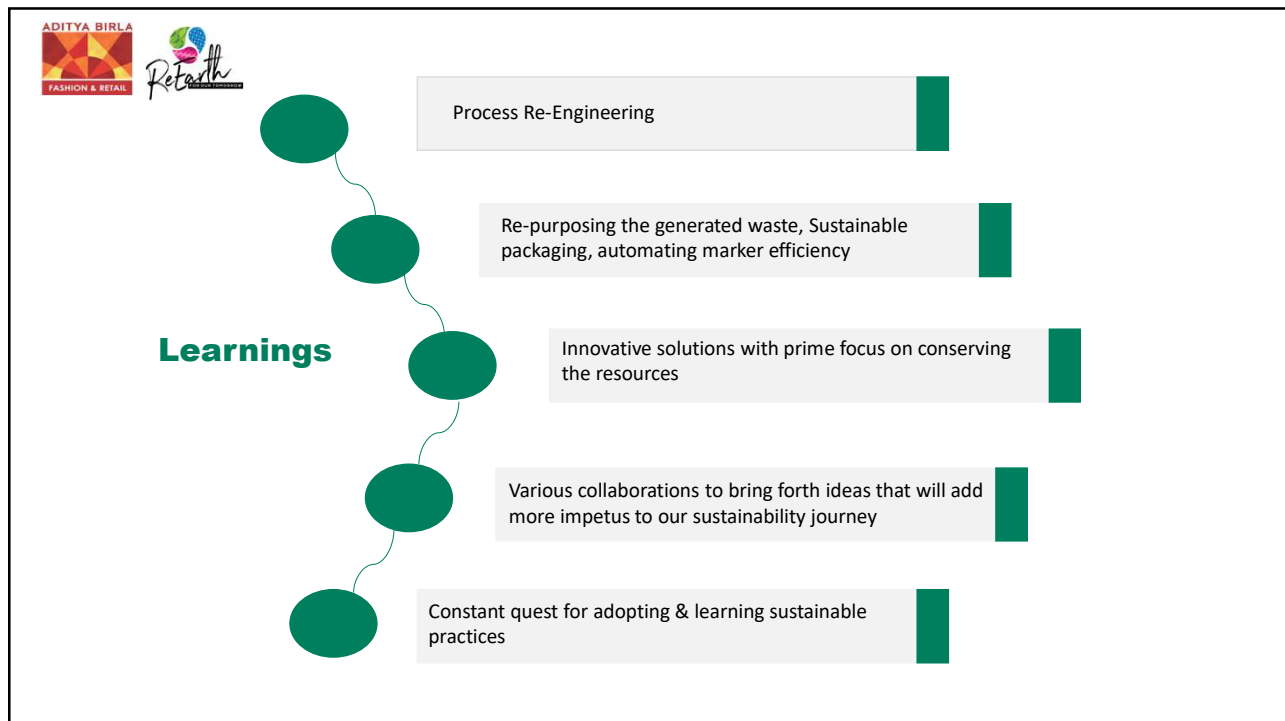
**Waste**  
- Enhancing the waste traceability

**Carbon**  
- Decarbonizing our own operations

8



9



10

