

**Company Profile: About Us** 

**1974** Established

**1 st** Company in SIPCOT Hosur belt

**11.3**<sub>acres</sub> Land Area

3.2<sub>acres</sub> Build Area

45% Green Coverage

**26**% Roads and other open area

151 Employees

**180** ESPs

**31** Trainees

**38** Managers

9500MnC/Annum Licensed Capacity



INTEGRATED MANAGEMENT SYSTEM







## HIGHLIGHTS



### Sustainability

- Sustained Divisional benchmark in Units/MnC and kL/MnC
- Sustained Renewable energy share to 80%
- Augmented Solar plant capacity by 0.2 MW
- Nil Lost Time Accident for 15 years
- Rating "5" and maturity level "Leading" in SSCI desktop assessment



### **Operational Excellence**

- Sustained improvement in all KPIs
- Benchmark in Market Complaint Index
- Highest ever cigarette volume of 8581 MnC and highest ever output of 796 MnC – Sept'23
- Low cost automated solution pilots -OTR and Filter shooter



- Capsule Filter Separation machine
- Compressed air management system with IFC
- Heat recovery system in dehumidifier for reduction of load in place of electrical heaters



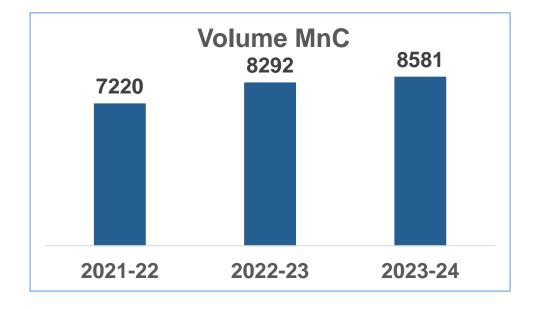
## Manufacturing Process Flow

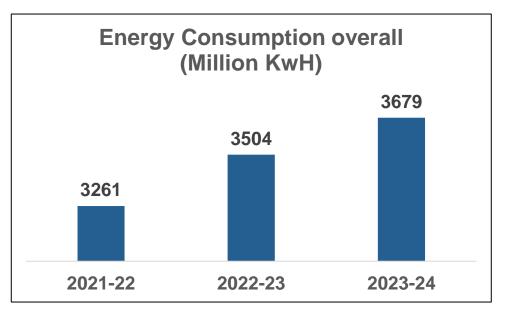




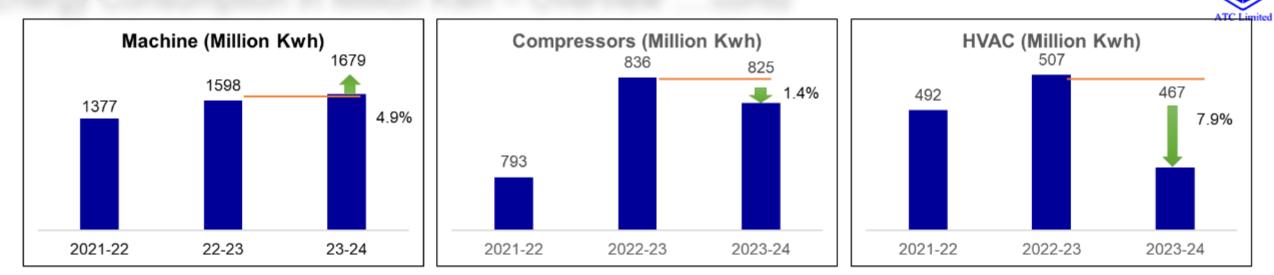
## **Energy Consumption – Overview**

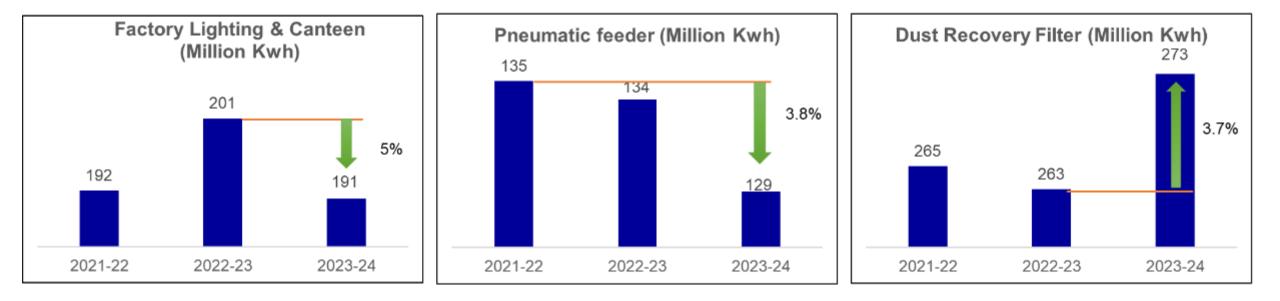




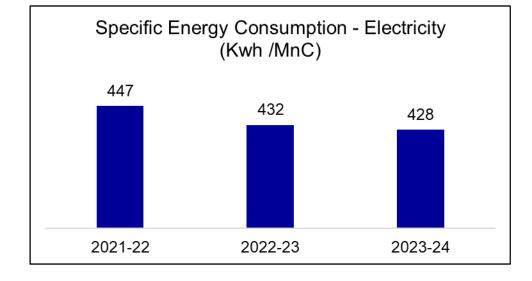


## Energy Consumption in Million Kwh – Overview ....contd





# Specific Energy Consumption



### Audit/gaps/Benchmarking

- Auto Cut off valves at machines head 3 Units/MNC
- Smart Compressed Air Flow and Pressure Control 2 Unit/MNC
- DRFs Bags Replacement 3 Unit/MNC

#### New technologies

- Replacement of DRF Motors with IE4– 2 unit/MNC
- CDRF Fan replacement 2 Unit/MNC
- Energy Efficient Pumps for Chilled Water 1.7 Units/MNC

#### **Automation & Control**

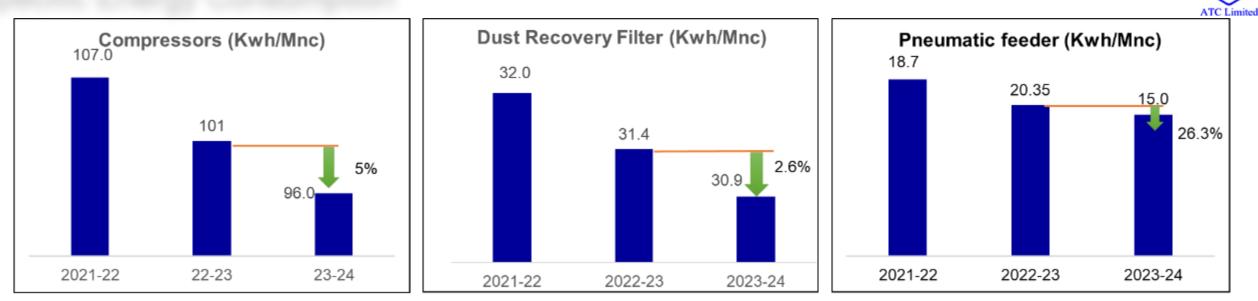
- Smart Remote of AC 1 Unit/MNC
- Sustenance of Lighting Automation- 1 Units/MNC
- Auto cut off vacuum in Casepacker 1 Unit/MNC

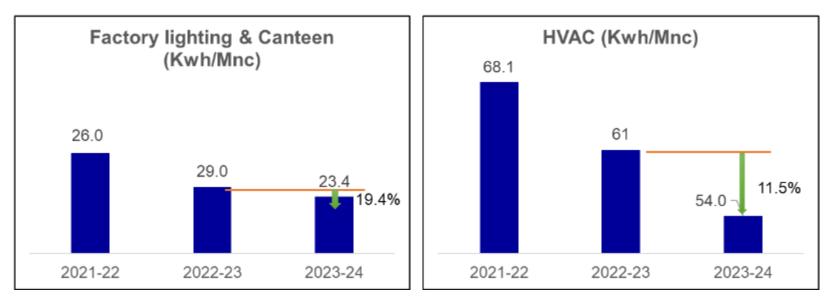
#### **Awareness Building**

- Energy Conservation day celebration
- Sustenance Of Initiatives
- Admin Control



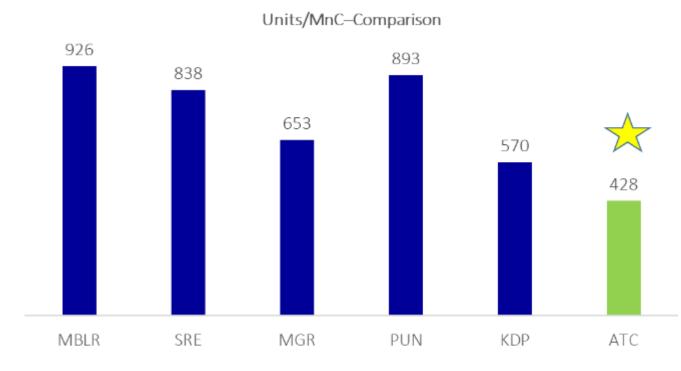
## **Specific Energy Consumption**





## Information on Competitors, National & Global benchmark





### Specific Energy Consumption Target – Unit / MNC

Target 2024-25

423

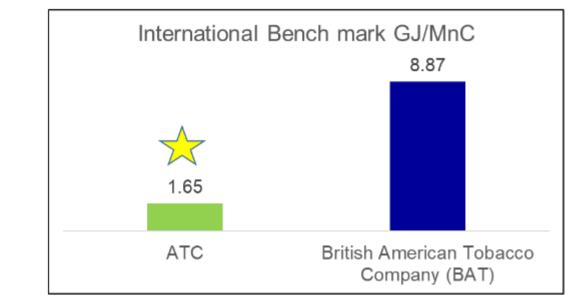
2023-24

428

2022-23

432

Overall



Product MOP (mnc)	: Cigarette : No. of Cigarettes produced in million	
(inite)		

F

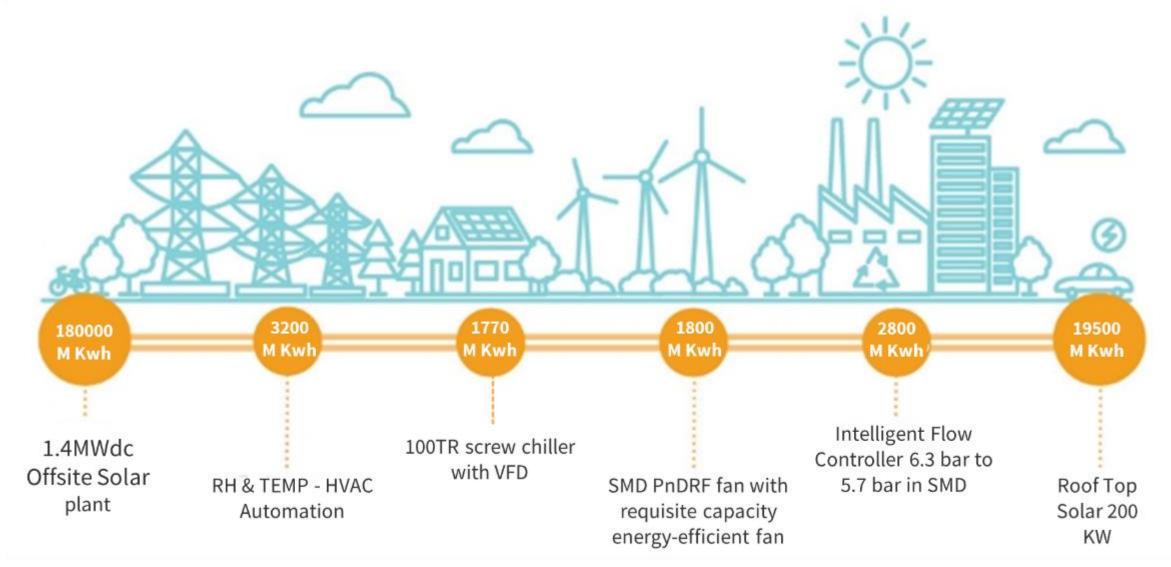
Rationale

3% improvement

Hence, GJ/mnc is the unit used for Benchmarking in case of Cigarette Industries

# **Energy Saving Road Map**





## Energy Saving Road Map Replacement of LPG gas with Induction Heating





~	Investment	: Rs.26 Lakhs
~	LPG Saving	: 585 Cylinders / Annum
<b>√</b>	Cost Saving	: Rs.12 Lakhs / Annum
~	Electricity cons	sumed by Induction Heating :KWH
	30000/Annum	

✓ Payback Period : 24 Months

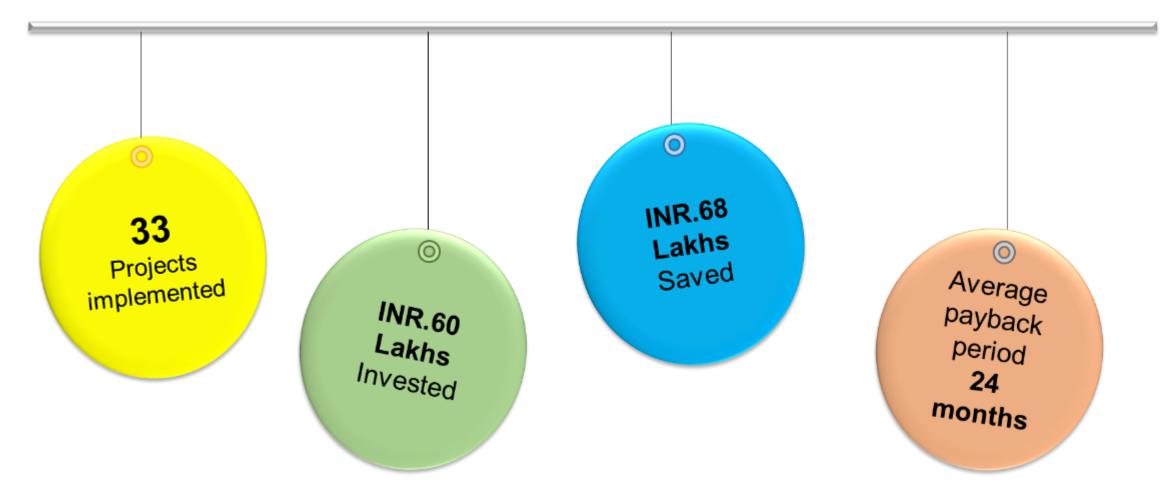
## **Specific Energy Consumption Targets**

Specific Energy Consumption Targets							
ATC 2030 S2.0 Target	2018-19 Baseline	2020-21 (A)	2021-22 (A)	2022-23 (A)	2023-24 (A)	2023-30 <sup>nited</sup> (Target)	
50% Renewable Energy (Overall)	77%	63.84%	65.36%	80%	80%	98%	
100% Purchased Grid Electricity	77%	63.84%	65.36%	85%	87%	98%	
50% Reduction in Specific GHG Emissions (Ton/MNC)	0.357	0.379	0.227 (36 %↓ )	0.197 ( 45%↓)	0.152 ( 45%↓)	0.108 (70 %↓)	
30% Reduction in Specific Energy (GJ/MNC)	1.86	1.86	1.76 ( 5%↓)	1.69 (7.5%↓)	1.65 (7.5%↓)	1.3 ( 30%↓)	
30% Reduction in Energy (Units/MNC)	457.5	<b>454</b> (0.76%↓)	<b>447</b> ( 2.3%↓)	445 ( 2.8%↓)	428 ( 2.8%↓)	320.25 ( 30%↓)	

## Energy Saving projects implemented: April 2022 – March 2024....contd



### Energy Saving Projects executed in last 3 years

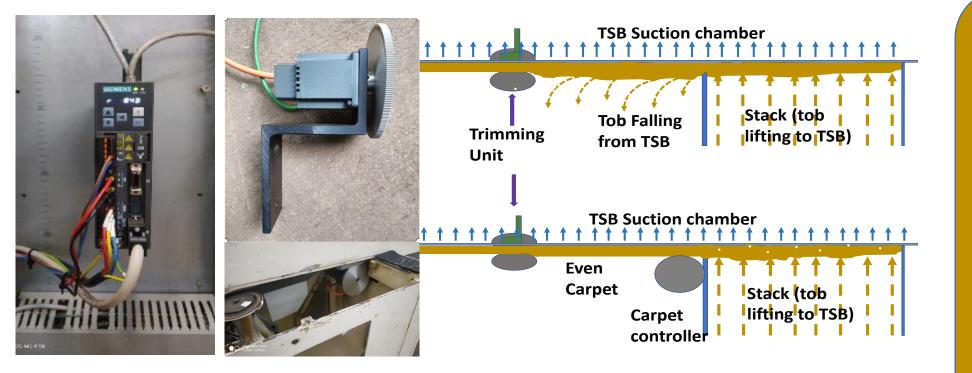




Year	No of Energy saving projects	Investments (INR Million)	Electrical savings ( Million kWh)	Thermal savings (Million Kcal/ MTOE)	Savings ( INR Million)	Payback period	Impact on SEC (Electrical, thermal) (Units/ Mnc)
FY 2023-24	10	2.35	0.32	0	2.35	16	4
FY 2022-23	12	3.02	0.42	0	3.33	21	15
FY 2021-22	11	3.30	0.17	0	1.19	33	2

### **Loose End Carpet Controller**

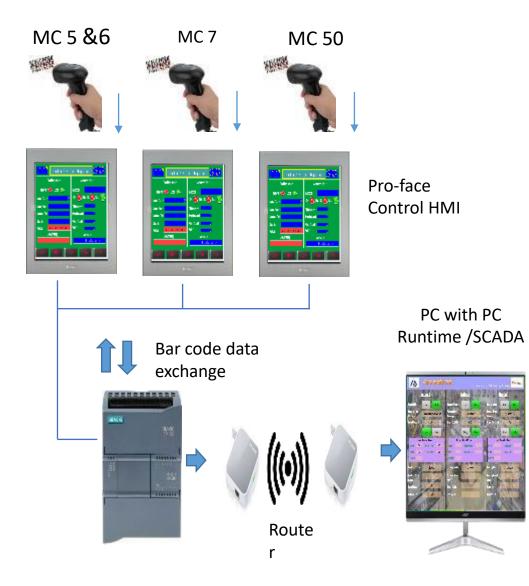




## **Benefits**

- Machine LE rejection to be reduced
- LSTC Loose end penalization to be reduced
- Loose shorts to be improved
- QR and Firmness to be maintained
- Overall machine waste to be reduced





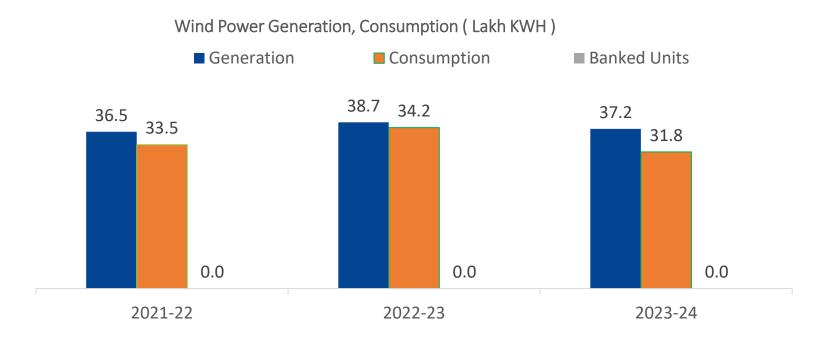
Interlocked with Shooter machine for incorrect brand





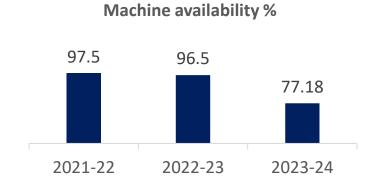
## **Utilization of Renewable Energy sources**





Generator Failure since 17<sup>th</sup> Jan 2024. Repair work in progress in Tada Plant





Gross PLF %



## **Utilization of Renewable Energy sources**



RE Share	2022-23	Q1	Q2	Q3	Q4	2023-24
Wind	62%	40%	59%	68%	45%	53%
Solar	19%	30%	30%	28%	35%	31%
IEX (Green)	-	0%	1%	0%	9%	2%
Total RE	80%	70%	90%	96%	89%	86%
Savings in Lacs	2022-23	Q1	Q2	Q3	Q4	2023-24
Wind	199	40	59	67	40	206
Solar	65	30	29	26	32	118
Solar IEX( Green)	65	30	29 1	26	32 8	118 9

#### <u>Highlights</u>

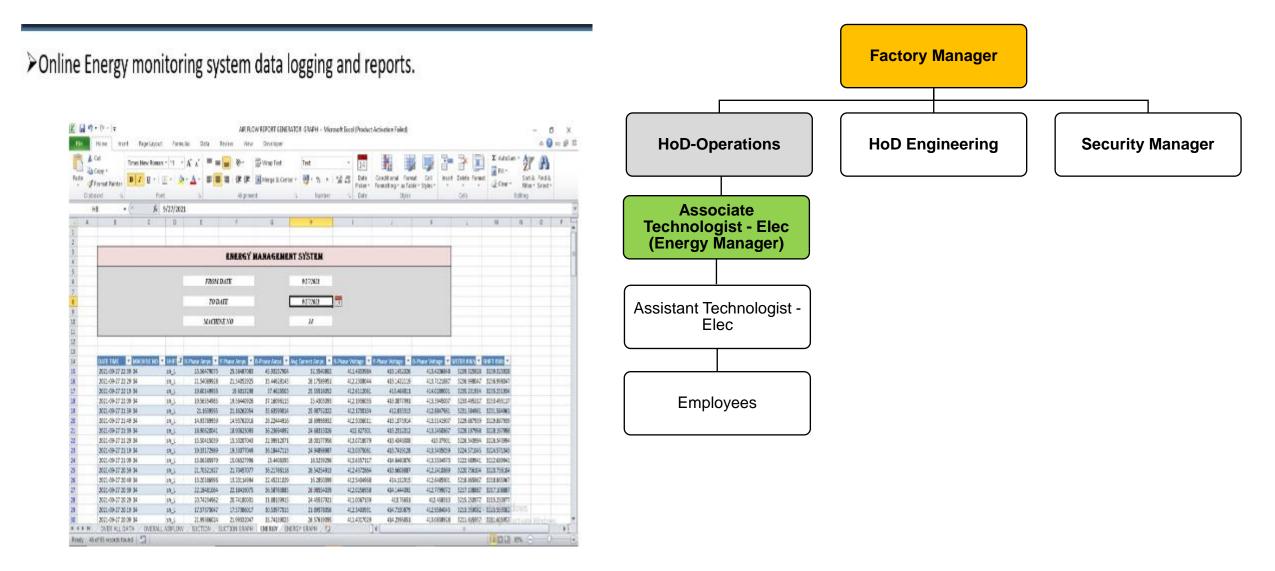
- RE Share has gone up from 80% to 89% Quarter on Quarter basis. Improvement on account of additional Solar and IEX
- 2023-24 RE share is 86% vs 80% in 2022-23 vs 65% in 2021-22
- Net savings on account of captive RE is ~ 333 Lacs YTD 2023-24 vs 264 Lacs in 2022-23
- Due to wind generator failure in Jan'24 ytd generation has reduced to 37.2 Lac Units from 38.7 Lac in LY



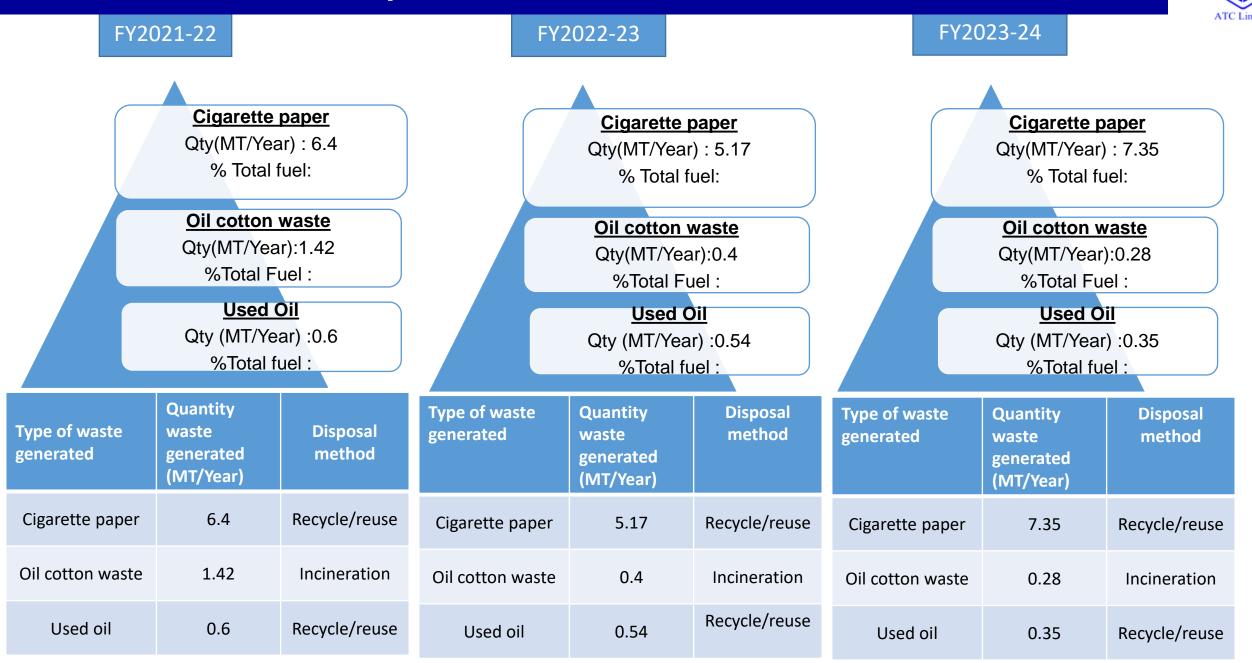






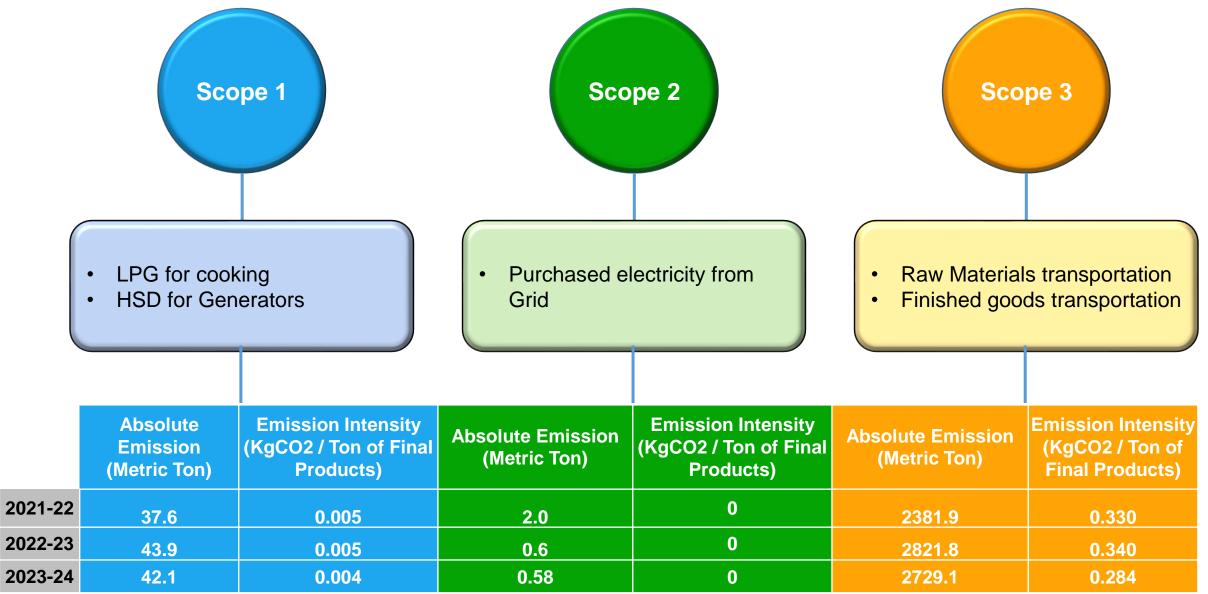


### Waste Utilization and disposal method



## **GHG Emission**





## WASTE MANAGEMENT







Transportation



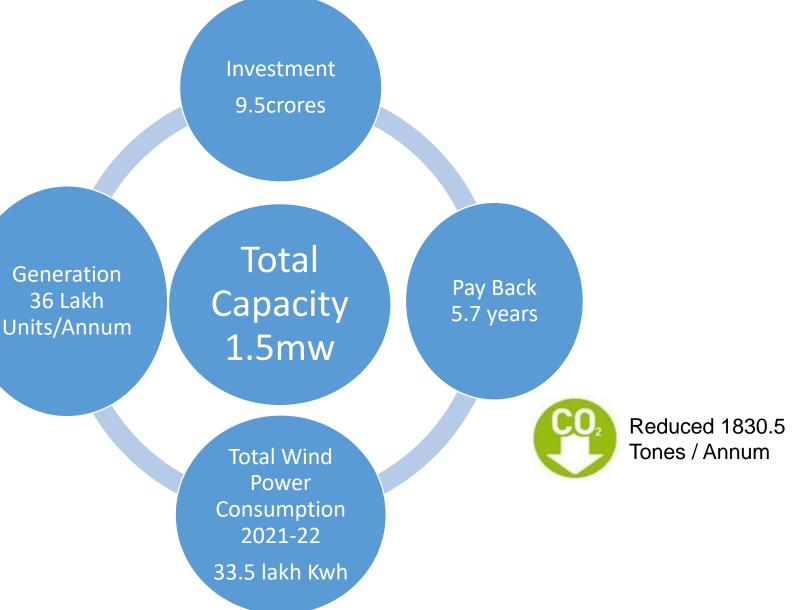


- Color coding of waste bins with pictorial signs
- Training and Awareness
- Regular inspection of Waste bins

## Renewable energy Projects : Off Site Wind Power Plant



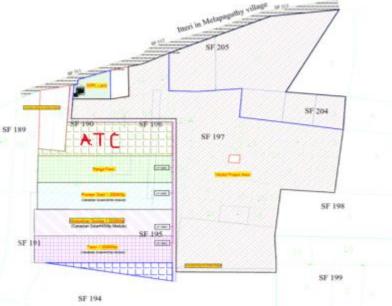




## **Off Site Solar Plant (Capacity 1MW)**







# Project Size:1.2MW AC(1.4Mwp DC) Project Site: Adanur village,Karur Dt,Tamilnadu



Total project Cost 7.36 cr Land Size :3.5 Acres

IRR:17.4%(15yrs) 19.5%(25yrs)

Estimated Generation:20Lakhs units ROI-4.2Years

Annual Electricity Savings(KWH): 2000000 Annual Saving(in lakhs): 333

## Long Term Vision on EE (Roof Top Solar)







Reduced cost of land and greater utilization

Reduced cost of evacuation

Easier operation and maintenance

Higher Efficiency of invertor / Power convertor

Increased Grid PLF%

✓ Investment : Rs.130 Lakhs

- ✓ Energy Saving : Kwh 3 Lakhs / Annum
- ✓ Cost Saving : Rs.25 Lakhs / Annum
- ✓ Payback Period : 62 Months



To ensure that its products and services comply with all applicable statutes and regulations;

To work towards safe and optimal resource use over the life-cycle of its products and services, including recycling of resources wherever possible;

To work towards ensuring that all goods and services are procured, manufactured and delivered through a system embedding its policies in terms of labour practices, human rights, ethics, occupational health, safety and environment;

To work towards sourcing significant raw materials, products and services in a manner so as to continuously improve the balance between social, economic and environmental impacts;

To work towards building capacity such that all the value chain partners, namely the third party manufacturers (TPMs), service providers including transporters and suppliers of significant raw materials, are sensitised and empowered to fulfil their roles and responsibilities towards sustainability;

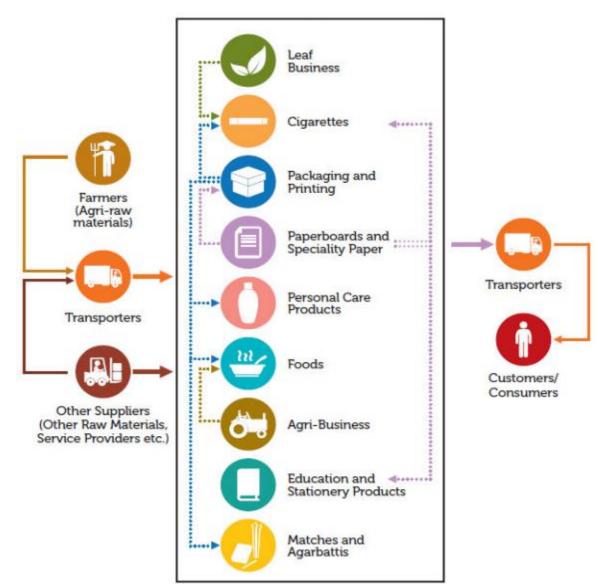
To raise the awareness of consumers on responsible disposal of products and packaging;

To continue to progressively factor in relevant social and environmental considerations during the process of development of products / services; To continue to recognise and respect the rights of people who may be owners of traditional knowledge, and other forms of intellectual property, wherever relevant.

# **Green Supply Chain – ENCON Projects implemented by Vendor**



Being a converter of tobacco into cigarettes for ITC Limited, ATC Limited sources most of its raw materials from ITC Limited. The material flow across different divisions in ITC Limited is as follows:



- Almost 95% percent of our vendors are from ITC Ltd.
  Papers and boards are from ITC PSPD, Leaf tobacco is sourced from ILTD, Filters are sourced from ITC Essentra.
- Energy conservation and replication of projects are governed by corporate EHS at ITC Limited. All the projects are tracked for implementation along with the replication projects. So the projects originated in one division, are replicated across divisions.
- We try to maximize the efficiency of our logistic networks by using travelling salesman algorithm to optimize routes and maximize truck loads/dispatch.

## **People Centric Initiatives**



### Energy Conservation Day Celebration



- Energy conservation Week Celebrated every in month of December
- Energy conservation pledge taken by all the participants
- Quiz was organized
- Total no. of Suggestions received from employees – 127

### World Environment Day Celebration



- World Environmental Day Celebrated every year on 5th June
- Around 1200 saplings planted across Hosur along with District Administration, 150 sapling issued to employees and planted 30 inside the Factory premises
- Environmental awareness program conducted inside the Shop floor













Gold Prize in FICCI Safety Excellence Award 2020 under small sector

P Rajasekaran I/C Elec & Energy Manager Mob No.9844121479 Email Id: pattabi.rajasekaran@itc.in

Save

Rishab Garg HoD – Operations & Energy Manager Mob No.7696298280 Email Id: Rishab.garg@itc.in