





Company Profile: About Us



1974 Established

144 Employees

1st Company in SIPCOT Hosur belt

143 ESPs

11.3_{acres} Land Area

31 Trainees

2acres (19%) Build Area

38 Managers

62% Green Coverage

9500_{MnC}/Annum Licensed Capacity



INTEGRATED MANAGEMENT SYSTEM



19% Roads and other open area



HIGHLIGHTS





Sustainability

- Divisional benchmark in 447 Units/MnC and o.9kL/MnC
- Renewable energy share increased from 63 to 65% - Highest wind power generation in last 4 years
- Installed and commissioned 1 MW Offsite solar power plant
- Nil Lost Time Accident for 12 years



Operational Excellence

- Highest cigarette volume of 7220 MnC in the last 3 years with enhanced efficiency from 64.4 to 67.5
- Low cost automated solution pilots -OTR and Filter shooter



- Despite rising Covid cases and stringent lockdown measures, the Factory was able to operate with 100% manning
- Interruption free operations through management of transportation and vaccination

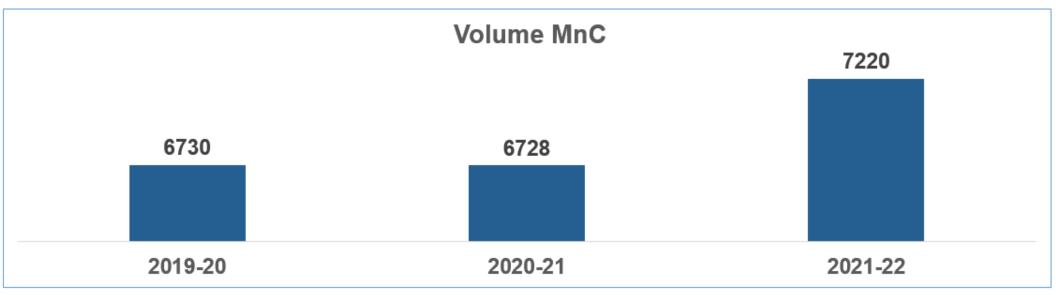
Manufacturing Process Flow

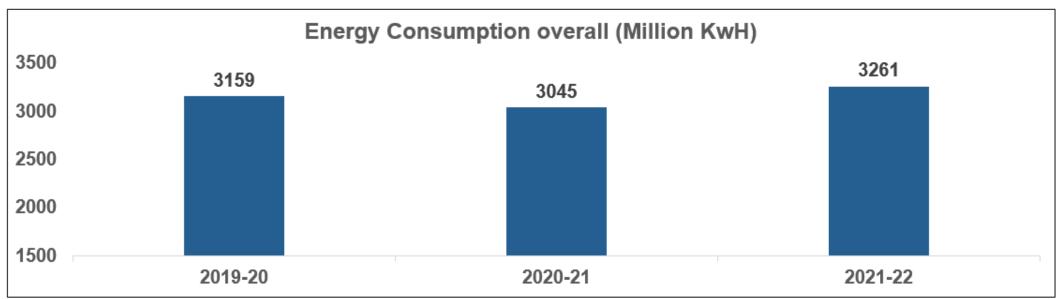




Energy Consumption – Overview

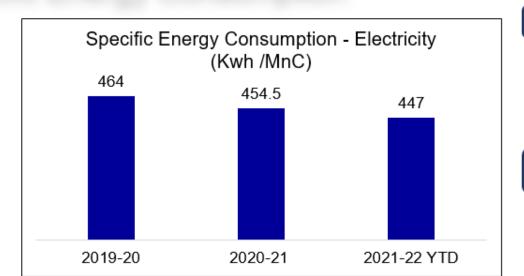


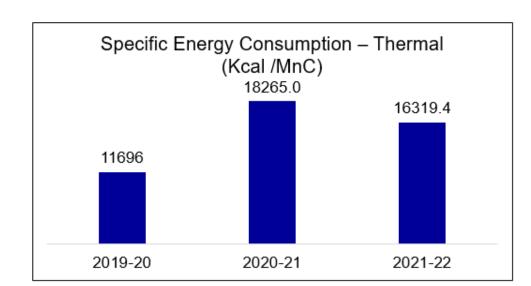






Specific Energy Consumption





Total Saving: 15.7Units/MnC

Breakdown in HVAC affected the SEC



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

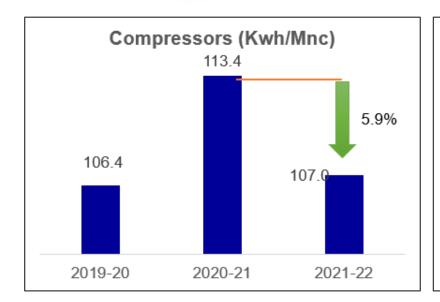
- Smart Remote of AC 1 Unit/MNC
- Sustenance of Lighting Automation—1 Units/MNC
- Auto cut off vacuum in Casepacker 1 Unit/MNC

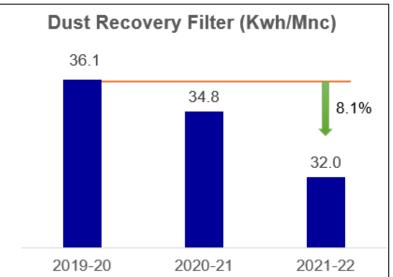
Awareness Building

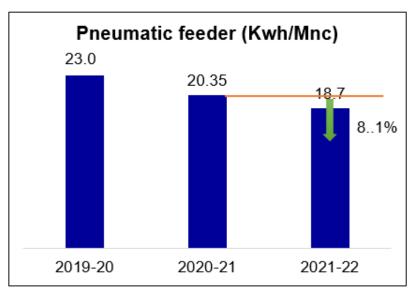
- Energy Conservation day celebration
- Sustenance Of Initiatives
- Admin Control

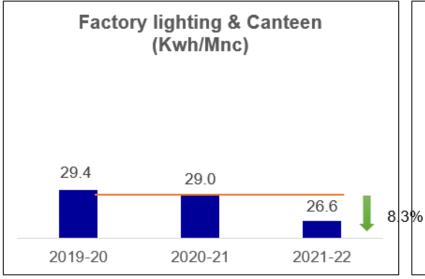
Specific Energy Consumption

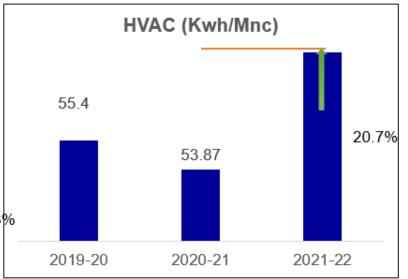








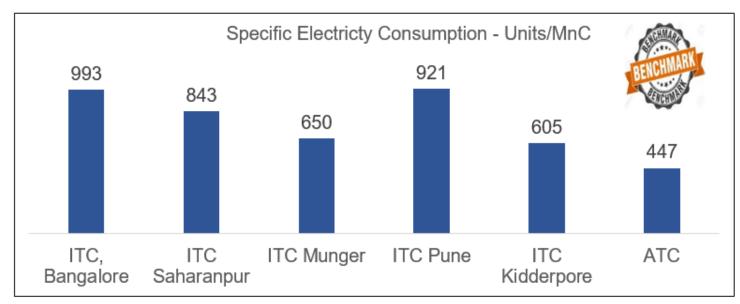


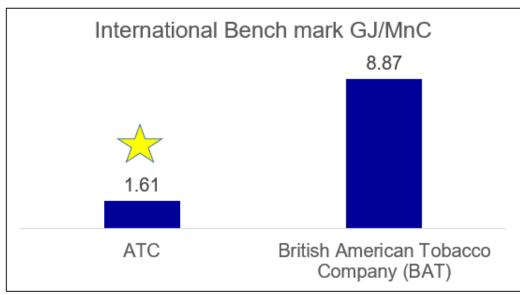




Information on Competitors, National & Global benchmark







Specific Energy Consumption Target – Unit / MNC

	2020-21	2021-22	Target 2021-22	Rationale
Overall	454	447	450	3% improvement

Product : Cigarette

MOP : No. of Cigarettes produced in million

(mnc)

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



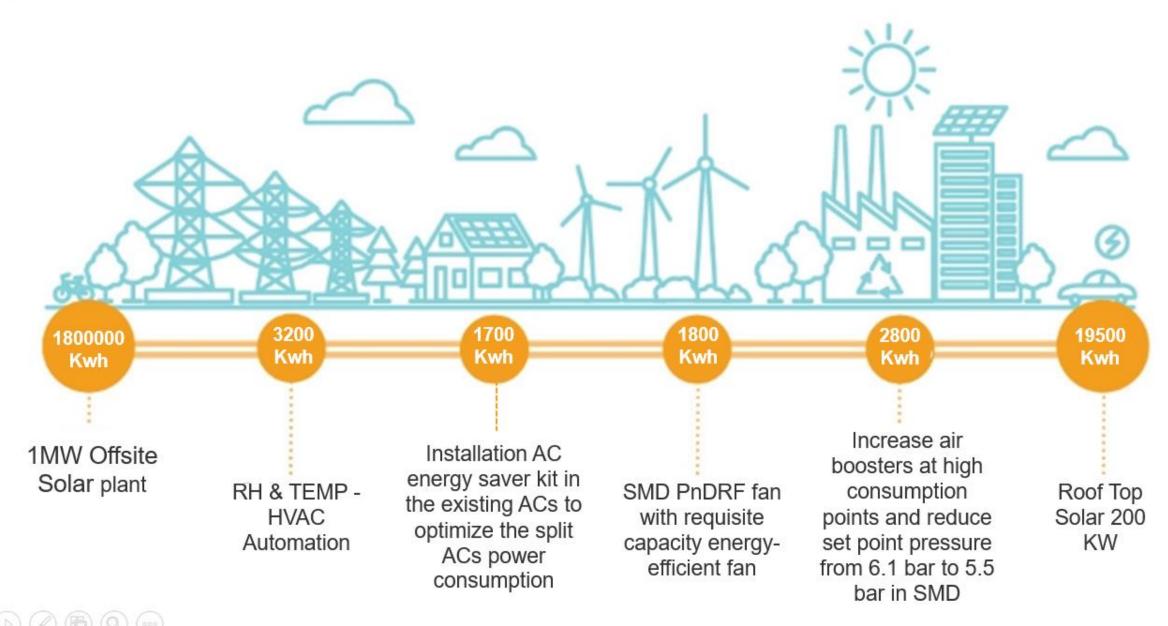
Specific Energy Consumption Targets



ATC 2030 S2.0 Target	2018-19 Baseline	2020-21 (A)	2021-22 (A)	²⁰²²⁻²³ (Target)	²⁰²³⁻³⁰ (Target)	
50% Renewable Energy (Overall)	77%	63.84%	65.36%	90%	98%	
30% Reduction in Energy (Units/MNC)	457.5	454 (0.76 %↓)	447 (2.3%↓)	445 (2.8%↓)	320.25 (30%↓)	
50% Reduction in Specific GHG Emissions (Ton/MNC)	0.357	0.379	0.227 (36 %↓)	0.197 (45%↓)	0.108 (70 %↓)	

Energy Saving Road Map





Energy Saving Road Map Replacement of LPG gas with Induction Heating





Energy Saving projects implemented: April 2019 - March 2022....contd



Energy Saving Projects executed in last 3 years



Energy Saving projects implemented: 2018-20contd



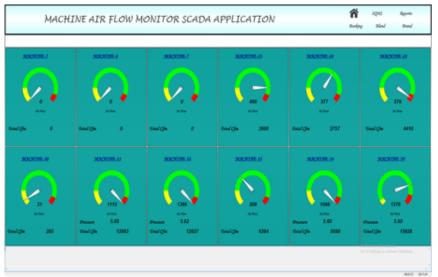
Year	No of Energy saving projects	Investments (INR Million)	Electrical savings (Million kWh)	Thermal savings (Million Kcal/ MTOE)	Savings (INR Million)	Payback period	Impact on SEC (Electrical, thermal) (Units/ Mnc)
FY 2021-22	11	3.296	177070	0	1.185	33.38	24.52
FY 2020-21	11	3.014	122750	0	0.987	36.64	18.24
FY 2019-20	11	5.055	295100	0	1.96	30.95	43.85

ENCON Projects - Online Monitoring of Compressed Air



m





ADVANTAGES:

- Actual air compressor data storage at centralized location
- Zero compressed air consumption in standby mode
- Actual air consumption and pressure indication in real time
- Pattern recognition for consumption profiles, leakage
- Selectable tolerance windows for error messages
- Determining cylinder leakage
 - ✓ Separation into internal and external leakage

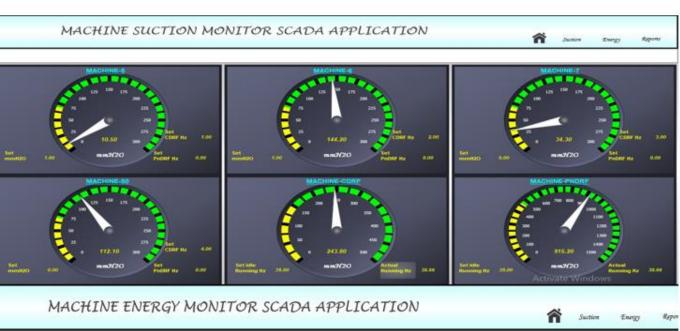






Innovation Projects - Online DRF Suction



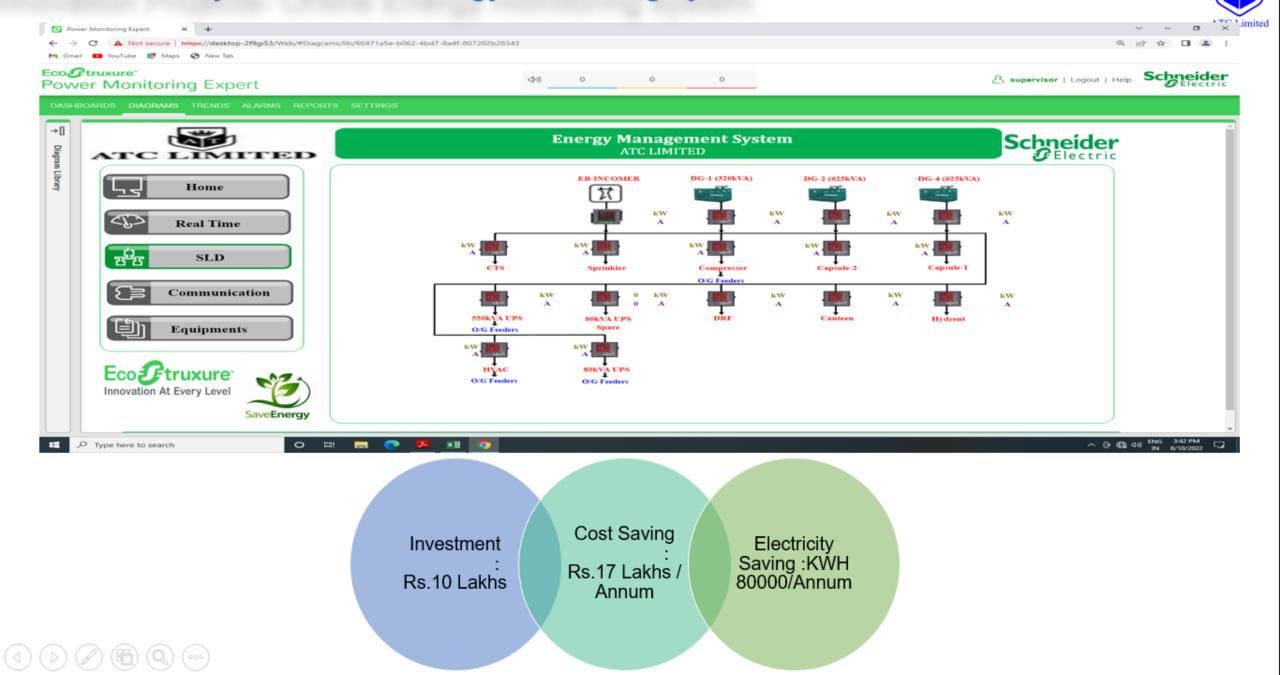


- Suction has monitoring from Each maker and DRF Line
- With respect to machine booking, DRF drive frequency could be controlled through PLC.
- 3. Ensuring Stabilized suction in all units.
- As well as energy monitoring system Developed for machines to analyse machine efficiency.
- Both monitoring system having Report generation.





Innovation Projects- Online Energy monitoring system



Innovation Projects - Low Cost Automation Pilots and Industry 4.0 Solutions



Online Tobacco Recovery Machines

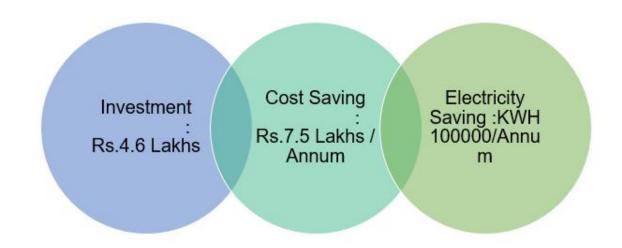
Benefit

- Reduction in slitting sand [0.05% gain in tobacco utilization]
- Reduced operational challenges for waste cigarette management
- · Reduced risk of NTRM
- Cost of total development is 45 lakhs for 3 OTR against the OEM Delphi cost of 150 lakhs

Key Activities & Plan

· Pilot completed

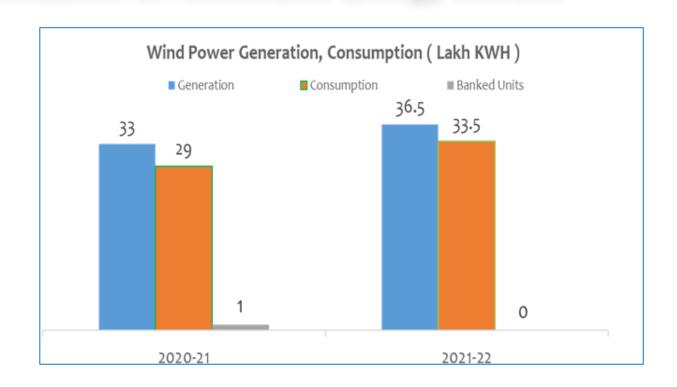


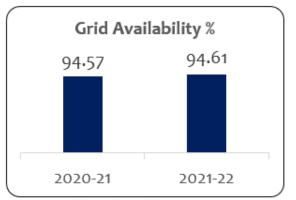


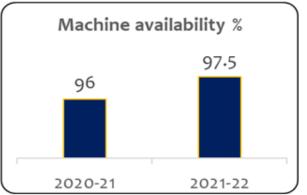


Utilization of Renewable Energy sources









Key Initiatives

IGBT failure continued follow and replaced before peak session

Mc made to run at Rated capacity from curtail mode

Regular interaction with O&M team check Yearly Main records.

Periodic visit to wind mill site and health check of Infra and machine.

Trimming of trees at Our Feeder line path – No Feeder DT.

Waste Utilization and disposal method



FY2019-20

FY2020-21

FY2021-22

Cigarette paper

Qty(MT/Year): 6.4

Oil cotton waste

Qty(MT/Year):1.42

Used Oil

Qty (MT/Year):0.6

%Total fuel :25.78%

Cigarette paper

Qty(MT/Year) : 5.17:

Oil cotton waste

Qty(MT/Year):0.4

Used Oil

Qty (MT/Year):0.54

%Total fuel :0.31%

Cigarette paper

Qty(MT/Year): 7.35

Oil cotton waste

Qty(MT/Year):0.28

Used Oil

Qty (MT/Year):0.35

%Total fuel :2.16%

Type of waste generated	Quantity waste generated (MT/Year)	Disposal method	
Cigarette paper	6.4	Recycle/reuse	
Oil cotton waste	1.42	Incineration	
Used oil	0.6	Recycle/reuse	

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GHG Emission





Scope 2

Scope 3

- · LPG for cooking
- HSD for Generators

 Purchased electricity from Grid

- Raw Materials transportation
- Finished goods transportation

	Absolute Emission (Metric Ton)	Emission Intensity (KgCO2 / Ton of Final Products)	Absolute Emission (Metric Ton)	Emission Intensity (KgCO2 / Ton of Final Products)	Abcoluto Emiccion	Emission Intensity (KgCO2 / Ton of Final Products)
2019-20	29.69	0.01	1.24	0	2525	1.15
2020-21	33.13	0.02	2.08	0	2156	0.98
2021-22	98	0.04	1.44	0	1603	0.73

Renewable energy Projects: Off Site Wind Power Plant







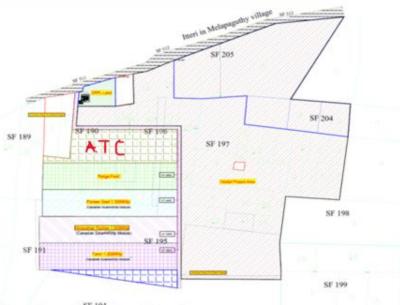
Pay Back 5.7 years

Reduced 1830.5 Tones / Annum

Off Site Solar Plant (Capacity 1MW)







Project Size:1MW AC(1.2Mwp DC)
Project Site: Adanur village,Karur Dt,Tamilnadu



Total project Cost 6.16 cr Land Size :3.5 Acres IRR:17.4%(15yrs) 19.5%(25yrs)



Estimated Generation:18Lakhs units ROI-4.89Years



Annual Electricity Savings(KWH): 1800000
Annual Saving(in lakhs): 126

Green Supply Chain – Green Purchase Policy



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;

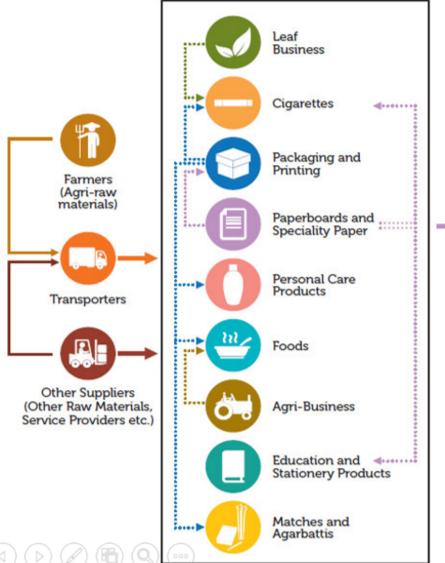
To continue to progressively factor in relevant social and environmental considerations during the process of development of products / services; To continue to recognise and respect the rights of people who may be owners of traditional knowledge, and other forms of intellectual property, wherever relevant.

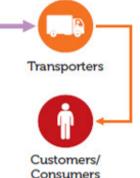
Green Supply Chain - ENCON Projects implemented by Vendor



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.

External recognitions









FICCI Safety Systems Excellence Awards 2021



Thank You

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