22ND NATIONAL AWARD FOR EXCELLENCE IN ENERGY MANAGEMENT 2021















ARUN K P, Asst. Manager – Electrical & Utilities MD. NIZAM LOHAR, Asst. Manager – Mechanical

ITC LIMITED,

AGRI BUSINESS DIVISION

KGLT, MYSURU

24th to 27th Aug 2021



Waste utilization & Management

Impact of Covid-19

Green House Gases - Inventorization

Specific Energy trends

Greening the Supply chain

Global & National benchmarking

Employee involvement & Energy monitoring

Energy Saving initiatives

Energy management system & IGBC

Innovation in Energy conservation

Learning from CII Energy Award or any other Award program

Renewable energy footprint

ITC: Putting India First

Gross Sales Value* ₹74,979 Cr for the year ended 31st March, 2021

Among the Top 3 contributors to the **Exchequer** in the private sector in India

ITC's FMCG products reach over 150 million households in India

'AA' rating by MSCI-ESG **Highest amongst** global tobacco companies



13 businesses in segments

Over new product launches in 2020-21

Over 100 countries where ITC exports

million 🍳 farmers empowered

ITC's FMCG products are available in 6 million retail outlets

Livestock Development: Over 330,000 farmers benefitted

Women

Empowerment:

Over 77,000

poor women

benefitted

e-Choupal:

4 million farmers

empowered

Skilling and Vocational Training: Over 90,000 youth

enrolled

Afforestation:

Over 875,000

acres greened

citizens

Solid Waste

Management

Well Being Out of Waste

(WOW) programme

covers over

1.5 crore

Primary Education: Reaching over 800,000 children

Development:

Over 1,200,000

acres covered

Over 900 patents filed

More than 26.000 employees

Over 200 manufacturing units

107 hotel properties

6 million sustainable livelihoods supported

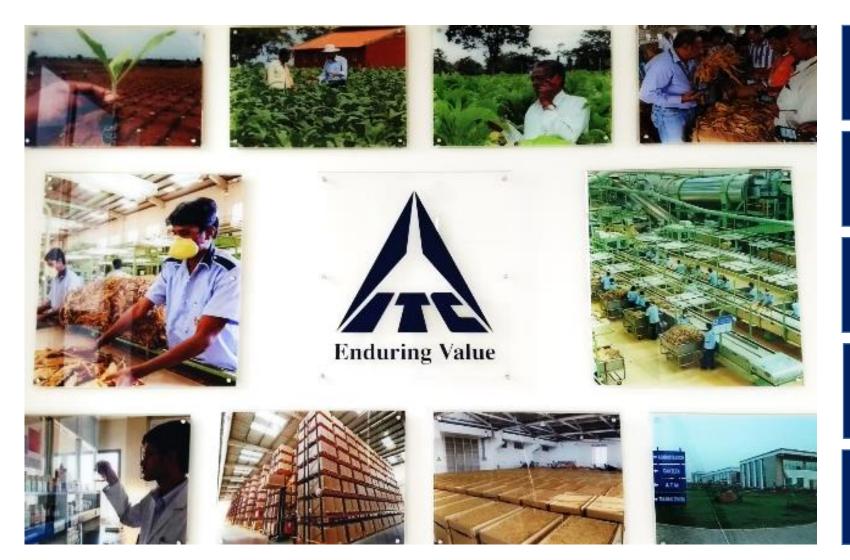
Over

Health & Sanitation: Over 38,000 toilets built

Pioneer of Green **Building Movement** in India: 33 Platinum-rated buildings

ITC's AGRI BUSINESS DIVISION (ABD)





Green Field Project commissioned 2011

Commercial Production 2012

Spread across 80 Acres

Green Cover 29 Acres (36%)

Renewable energy foot print 99%

ITC's AGRI BUSINESS DIVISION (ABD)



ITC's Agri Business Division is one of India's largest Processer & Exporter

of Agricultural products.

- Grains, Pulses & Oil seeds
- Spices
- Coffee
- Aqua
- Processed Fruits & Vegetable
- Frozen foods
- Leaf tobacco

Leaf Tobacco:

- Largest Buyer, Processor & Exporter of Leaf tobaccos in India
- Serving customers over 50 countries & 70 destinations
- Green Leaf Threshing factories in AP & Karnataka







ITC's AGRI BUSINESS DIVISION (ABD)



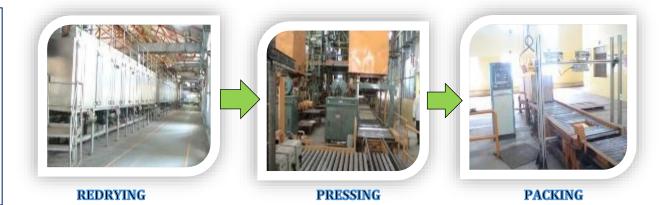




THRESHING AND CLASSIFICATION

Tobacco processing is done for following value addition.

- ✓ Separation of Stem and lamina
- ✓ Improve the Shelf life of the product from 3 Months to 3 Years
- ✓ Separation of Non Tobacco Related Matter to ensure clean product





ITC - A	gri E	Business	Division	: Introd	luction
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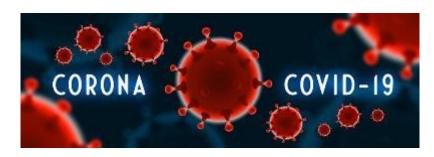
Renewable energy footprint

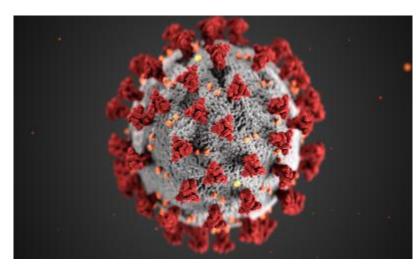
COVID-19 IMPACT



COVID-19

BUSINESS IMPACTS















High GHG emissions due to employee commutation

Disruption in factory operation planning

Higher Water consumption as a precautionary measure

High specific energy consumption

Low annual maintenance days

Increased trucks & trips

Reorganize the production planning

Additional touch free wash basins

More steam to meet product quality

Higher maintenance & operating cost



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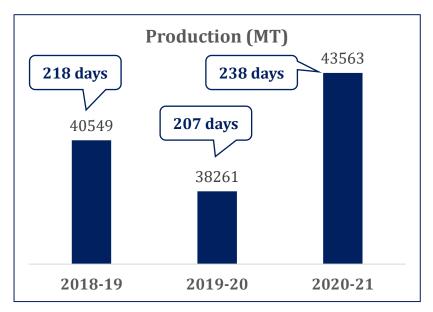
Innovation in Energy conservation

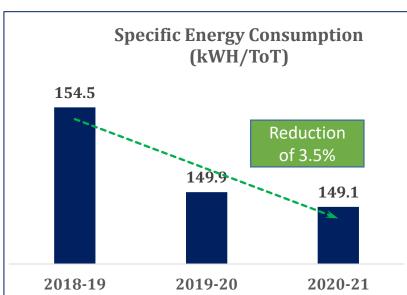
Learning from CII Energy Award or any other Award program

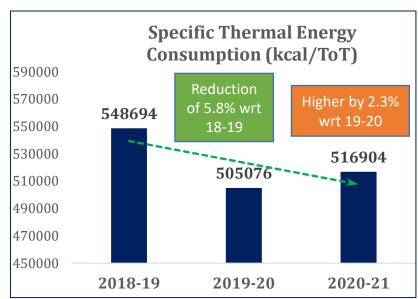
Renewable energy footprint

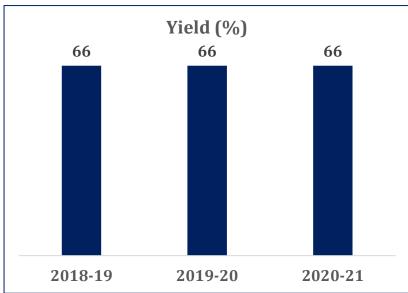
Production & Energy Indices

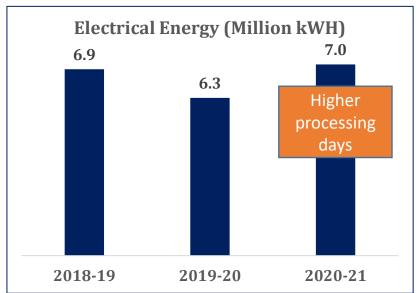


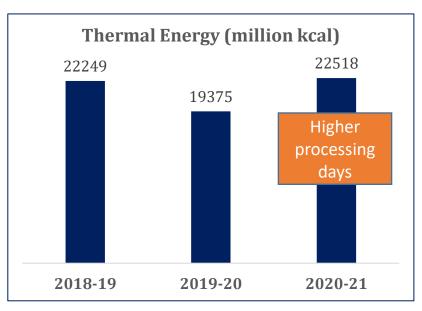












Summary of Initiatives : Electrical Energy



LED Lighting



Energy Saving

Per day: 1161 Units No. of LED Lamps: 700 Annual saving: 278563 units

Saving in Rs. Lakhs: 20.6

Layout modifications







Energy Saving

Per day: 470 Units No. of Initiatives: 13 Annual saving: 112694 units Saving in Rs. Lakhs: 8.4

Air compressor pressure optimization

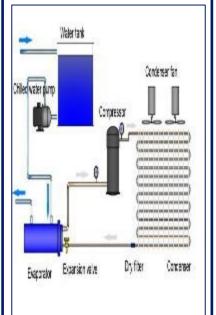




Energy Saving

Per day: 249 Units No. of Initiatives : 1 Annual saving: 59760 Units Saving in Rs. Lakhs: 4.4

Reduction of Chiller condenser fan operation



Energy Saving

Per day: 19 Units No. of Drives: 1 Annual saving: 4534 Units Saving in Rs. Lakhs: 0.3

Right optimization of drives





Energy Saving

Per day: 211 Units No. of Drives: 8 Annual saving: 50573 Units Saving in Rs. Lakhs: 3.7

Energy Efficient Drives





Energy Saving

Per day: 201 Units No. of Initiatives: 5 Annual saving: 48271

units

Saving in Rs. L: 3.6

Summary of Initiatives: Thermal Energy



Specific Initiatives towards conservation of Thermal Energy



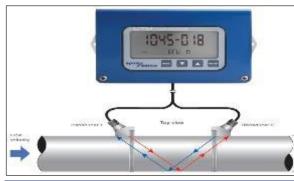
Effective Utilization of Tobacco Dust (5% reduction in Coal)



Usage of Sieved Coal reduced unburnt in fly ash



Cylinder condensate recovery (2% improvement in condensate recovery)



Timer Based Steam to Canteen (0.4 Lakhs Savings)



Reduced steam pressure from 9 bar to 6 bar



Heat Recovery system in Stem dryer exhaust



Improved Condensate Recovery of over 40%



Steam Leakage Monitoring/ Correction



ITC – Agri Business Division	: Introduction
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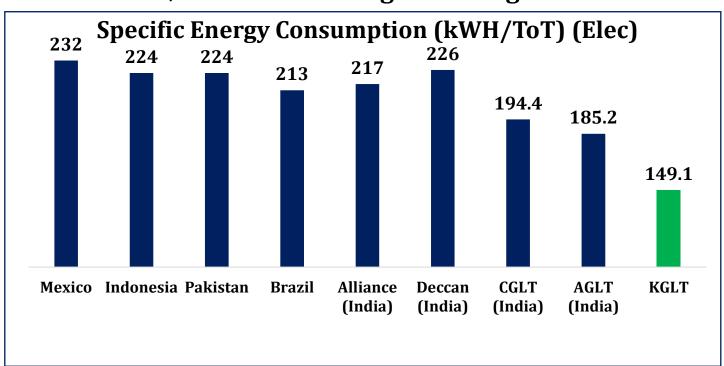
Learning from CII Energy Award or any other Award program

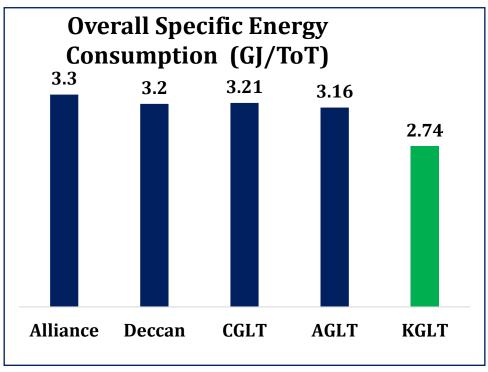
Renewable energy footprint

Global and National Benchmark



So, how do we fair against the global benchmark of Overall Energy Efficiency??



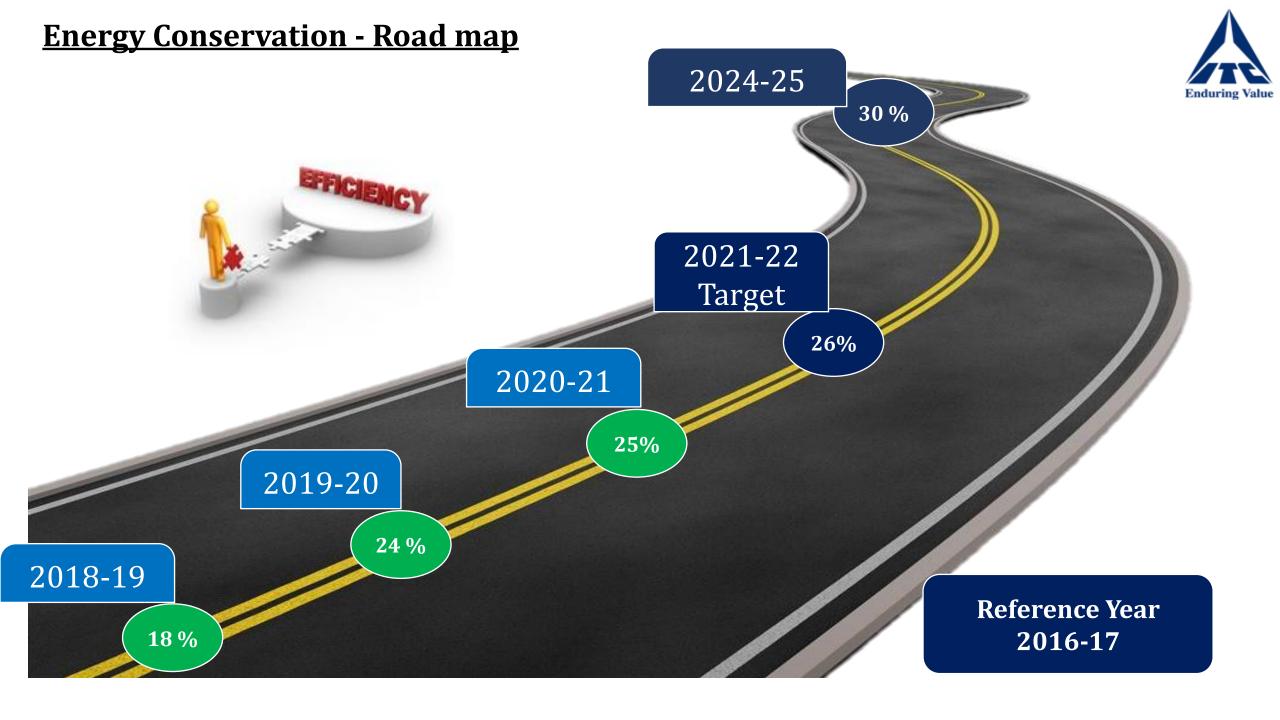


"GLOBAL BENCHMARK in Energy efficiency

ITC- KGLT is the most energy efficient unit amongst the competition

- Energy Efficiency built into the design and layout
- Energy management committee to oversee the unit's energy performance and drive innovation
- Continual improvement in the organizational DNA

Source : Global threshing team



Major Energy Conservation Plan 2021-22





• LED lighting

200 units / day



• Layout and Drive rating optimization – 4 initiatives

150 units / day



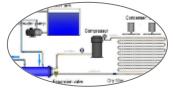
• VFD for identified drives

100 units / day



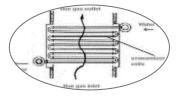
• IE3 / IE4 drives – 3 identified drives

90 units / day



• Chiller – Upgrading to Energy efficient chiller

10 units / day



• Explore use of briquettes at Boiler

100 Kgs of coal / day



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Energy Conservation Projects - Last 3 years



Year	No of initiatives	Investments (Rs Lakhs)	Savings (Rs Lakhs)
2018-19	6	Rs. 14.20 L [Rs. 25.76 L incl of WTG – Quick Sense]	Rs. 10.8 L
2019-20	12	Rs. 12.29 L	Rs. 11.22 L
2020-21	14	Rs. 15.9 L	Rs. 11.43 L

2018-19 Energy Saving – 146056 kWH

2019-20 Energy Saving – 149762 kWH

Energy Saving – 141548 kWH

2020-21

LED Lighting – 93855 kWH

LED lighting – 72348 kWH

LED lighting – 58581 kWH

Layout & Drive optimization
- 31755 kWH

Layout & Drive Optimization
- 56548 kWH

Layout & Drive Optimization
- 14718 kWH

Compressor pressure optimization – 20446 kWH

Energy Efficient drives
- 20886 kWH

Energy Efficient drives
- 68249 kWH

Energy Conservation Projects: 2018-19



2018-19

Energy Saving – 146056 kWH

Energy Saving Initiatives	Energy savings (kWh/day)	Energy savings (kWh)	Savings (Rs. Lakhs)
LED Lighting	432	93855	6.95
Butts Picking Conveyors - Modification	133	17241	1.28
CFC 5 & 6 Lamina VOVs - Rating Optimization	92	11983	0.89
Desander Airlock Fan - Removal	16	1955	0.14
Training Center - Washroom Exhaust Fan replacement	5	576	0.04
Compressed Air - Pressure Optimization	249	20446	1.52
Total	927	146057	10.8

Energy Conservation Projects: 2019-20

2019-20

Energy Saving – 149762 kWH



Energy Saving Initiatives	Energy savings (kWh/day)	Energy savings (kWh)	Savings (Rs. Lakhs)
LED Lighting	421	72348	5.36
IE3 drive for 1st Stage HAL Fans	109	20866	1.55
FE - Tip Slow moving conveyor-2 Removal	14	1755	0.13
Mini Sorter conveyors - 3 Nos. Removal	45	5797	0.43
Stem Dryer conveyor - 3 Nos. Removal	58	7410	0.55
CFC5 Lights Discharge Conveyor – Removal	15	1966	0.15
Stem Comp - VOV made Non-operational	114	14492	1.07
Stem Comp - Conveyor – Removal	8	1016	0.08
4th Stage Search Conveyor – Removal	11	1417	0.10
Desander Air - Lift fan made Non-operational	163	20825	1.54
Removal of Spillage conveyor at Decaking conveyor	7	839	0.06
Temperature based operation of Cooling Tower fans	26	1032	0.08
Total	991	149762	11.22

Energy Conservation Projects: 2020-21

2020-21

Energy Saving – 141548 kWH



Energy Saving Initiatives	Energy savings (kWh/day)	Energy savings (kWh)	Savings (Rs. Lakhs)
LED Lighting	308	58581	4.73
VFD for PA Fan and Timer based auto purging of Bagfilter	242	54800	4.42
Pre-conditioning cylinder discharge conveyor – Rating Optimization	2	440	0.04
Scrap collection conveyor -2 - Rating Optimization	2	451	0.04
Combining of Search Conv - 1 & 2	11	2144	0.17
Chiller - Reduction of Condenser fan operation	19	3589	0.29
VFD for RO Plant High Pressure Pump	38	4737	0.38
Combining of Main Lamina Conv - 1 & 2	13	1656	0.13
IE3 drive replacement - 2nd Stg HAL Fans	68	6981	0.56
Dried stem air recirculation fan - Rating Optimization	65	4768	0.38
CFC-10 secondary winnover made Non-operational	24	334	0.03
NTRM classifier-1 string remover – Rating Optimization	8	572	0.05
NTRM classifier Lights discharge conveyor – 1 – Rating Optimization	10	763	0.06
IE4 drive replacement - 1T2	24	1731	0.14
Total	835	141548	11.22



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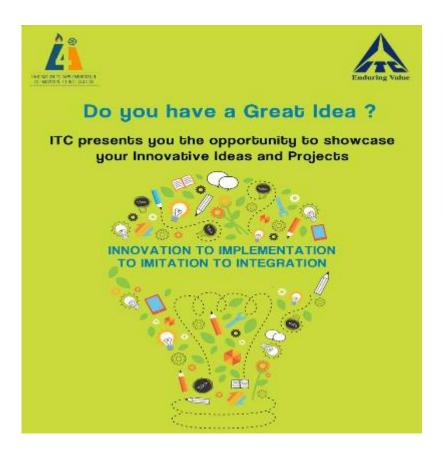
Innovation in Energy conservation

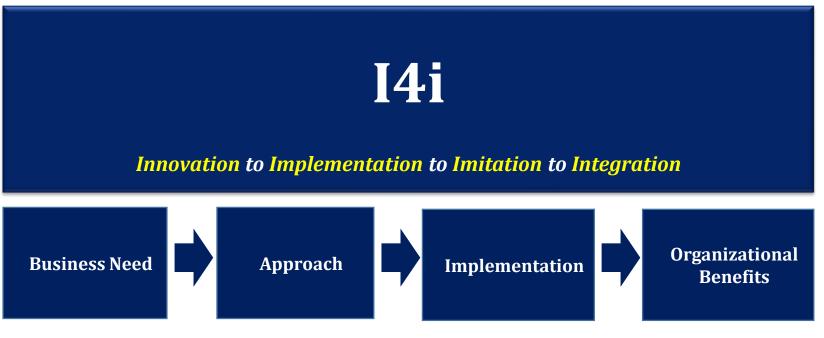
Learning from CII Energy Award or any other Award program

Renewable energy footprint

Innovation @ ITC







ITC organizes Organization level competition on Innovation projects across all its branches & awards the best innovation projects based on above said criteria.

Our Unit actively participated in such event involving all employees and participated in Divisional level competition.

Innovation Project - 1

Installation of Heat Recovery system in Stem dryer exhaust



Before



After



Business Need

Energy Conservation

Innovation Component

Process Change: Identification of Heat stream being not utilized and inhouse building of heat exchanger.

Project Outcome Energy Saving – 200 kg of steam per day Savings in Rs. – 0.5 Lakhs

Organization Benefit

Low operating Cost



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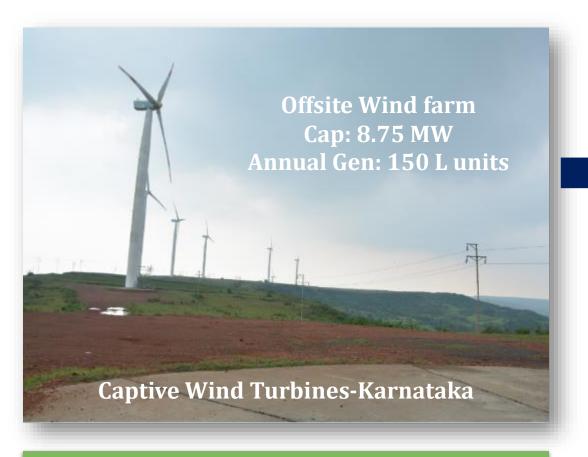
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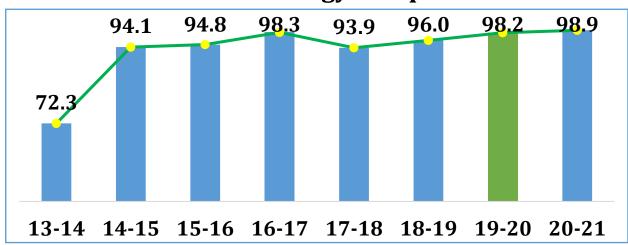
Renewable Energy Footprint (%)





The Captive Wind Farm generates three times the energy requirement. Surplus Energy is wheeled to other Units and Businesses

Renewable Energy Footprint %





150 Lakh Units



150 Lakh Units



98.2%



ITC – Agri Business Division: Introduction Waste utilizati	ITC – Agri Business Division: Introduction
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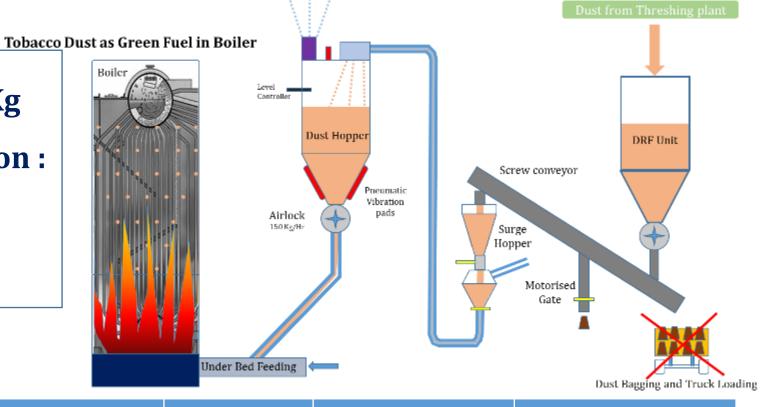
Waste Utilization and Management



Use of Tobacco Dust as co fuel in Boiler

- Dust has GCV of 3000 K Cal/Kg
- Reduction in Coal consumption :
 - > 5%
- Study conducted for 2 years

Waste Utilization from 18-19 to 20-21



Sl No	Year (2019- 20)	Waste Details	Quantity	GCV	Heat value	Waste as percentage of total fuel
1	2018-19	Tobacco Dust	292.7 MT	3340	977 million kcal	4.39 %
2	2019-20	Tobacco Dust	344.9 MT	2937	1013 million kcal	5.23 %
3	2020-21	Tobacco Dust	435.4 MT	2816	1226 million kcal	5.45 %

Waste Utilization and Management



Wet Tobacco is compost and used as Manure for Gardening





Fly Ash used at Brick manufacturing











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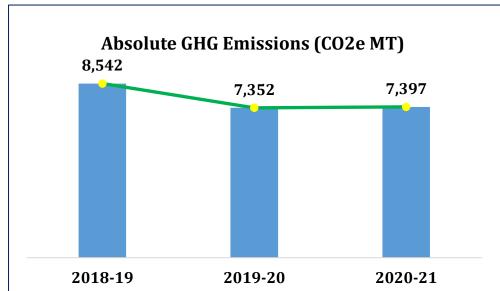
GHG Inventorizations



GHG Inventorization & Public Disclosure

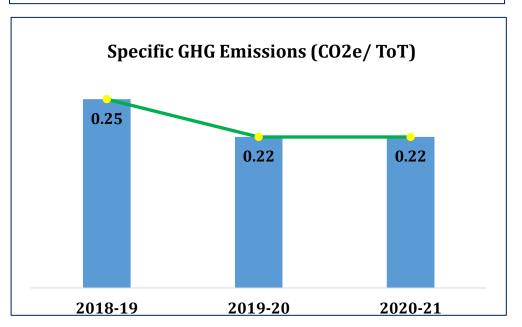
All Scope 1, 2 & 3 emissions being captured and disclosed to public on ITC Portal.

link: https://www.itcportal.com/sustainability/sustainability-reports.aspx



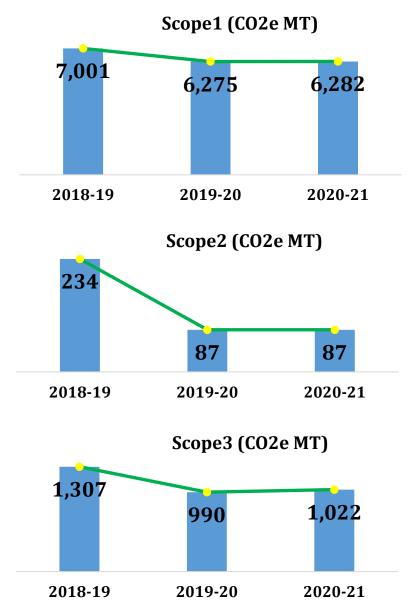
Target (short term/long term) for CO2 emission reduction

Target: 2% reduction of Specific emissions YoY



GHG Inventorizations

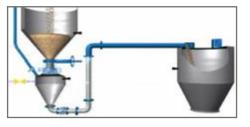




Initiatives towards GHG emission reduction



• Wind Energy Utilization of 98.9%



Improved Evaporation Ratio, condensate recovery & elimination of leakages



Energy conservation initiatives



Minimize DG operation thru increase in Grid availability



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Greening of Supply Chain

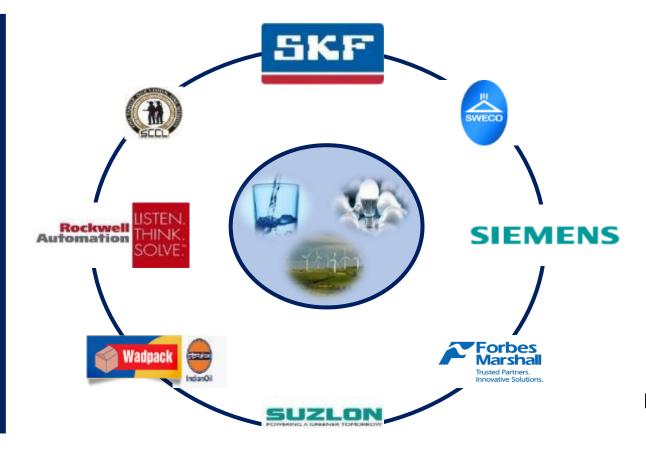


Supplier code of conduct - Environment

As a practice, we take a declaration "ITC-Code of Conduct" from all its key / major vendors on complying laws of all environment and adopt environment friendly technologies

Installation of Solar power in raw material warehouses during 19-20.

- Investment made to the tune of Rs 163 Lakhs
- Installed Capacity: 281 KWp
- Renewable Energy Footprint: 70%





Greening of Supply Chain: Environment Integrity



Ensuring environmental sustainability, ecological balance, protection of flora and fauna, conservation of natural resources and maintaining quality of soil, water and biodiversity in villages.

Social interventions are mainly focused on the programs which result in the eradication of poverty, improving education in Government schools, promotion of preventive health care, sanitation and providing access to safe drinking water.



170,000 households benefited with clean drinking water (135+ RO Units)



Solid Waste Management Covering 25,000+ Households in AP & Karnataka



2.35 lakhs artificial inseminations performed leading to over 82,000 live births



5200+ youth covered under various skill development program



> 100,000 school children benefitted class room, toilets, benches



5000+ households covered through sanitation program



1500+ Water Bodies: Tanks & Farm Ponds



35,465 Barns covered with energy conservation measures



Improvement in soil health: 60,000+ hectares under soil & moisture conservation



Safe disposal of pesticide containers – 100+ Villages



Social & Farm Forestry 40,000+ Hectares



Biodiversity Parks & Green Cover to protect natural flora & fauna in villages - 500 Hectares



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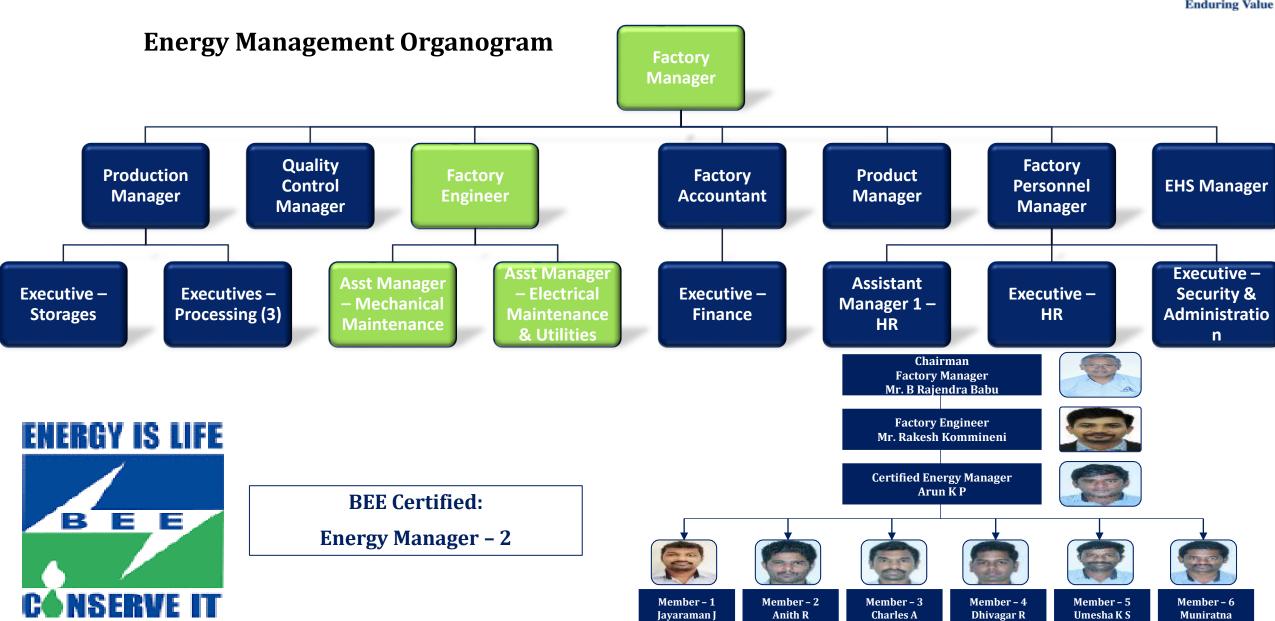
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Teamwork, Employee Involvement & Monitoring





Energy Monitoring Format

KGLT Daily Energy Dashboard

- A dashboard with details of MCC wise consumption is analyzed daily
- o Also Specific Energy is monitored
- o Process & Utility units are monitored.
- o Dashboard is mailed daily to all the stake holders

| NGLT Cherry Dushboard 22.07.2014 | RC narry Dushboard 22.07.



Monthly Energy Dashboard

- Divisional level dashboard data review on monthly basis
- All GLTS energy performance will be compiled and reviewed for both for processing & Non-Processing days

Energy Conservation	KGLT	E	nergy Processing Days Lac Units	1.4031	-	-	-
	KGLT	E	nergy Non Processing Days Lac Units	1.0233	1.0359	0.8622	0.6924
	KGLT	E	nergy Additions Lac KWH Processing	-	-	-	-
	KGLT	E	nergy Reduction Lac KWH other than E	-	-	-	-
Water conservation	KGLT	v	Nater Consumption KL Actual Processin	0			-
	KGLT	v	Nater Consumption KL Actual Non Proc	3630			423
·							
Karnataka Wind Turbine	Karnataka	1	Net Gen Actual Lac units Month	7.07	10.48	23.83	34.32
	Karnataka	P.	Machine Uptime Actual	80.0%	97.3%	99.4%	99.15%
	Karnataka	6	Grid Uptime Actual	98.1%	77.3%	99.7%	99.97%
	Karnataka	E	Banked Energy Lac units Cum	0.04	7.62	19.74	41.74
	Karnataka	c	Other ITC Units	4.70	1.9	10.85	11.59
	Karnataka	т	hird party sale Lac Units Month	0.00	0.00	0.00	0.00
	Karnataka	S	ite Visits Plan	0	0.00	1.00	0.00
	Karnataka	S	ite Visits Actual	0	1.00	1.00	0.00
	Karnataka	S	submission of Scheduling and forecastir	No	No	Yes	Yes
	Karnataka	v	Vind Power Available days AGLT				
	Karnataka	v	Wind Power KGLT Lac units Month	2.33	1.01	0.85	0.69
	Karnataka		Grid - IEX/APGPCL KGLT Lac Units month	0.11	0.03	0.00	0.00
	Karnataka		OG KGLT Lac Units Month	0.06	0.02	0.01	0.00

Quarterly Energy Dashboard

- Energy consumption & generation data is monitored on Quarterly basis at Corporate level
- All energy consumption data is uploaded in a portal and analyzed

Renewable energy consumption (generated by ITC)

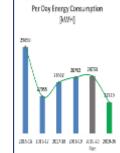
Electricity from wind

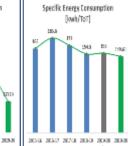
	Value Unit	Comment
1st quarter	460.5 MWh	Less processing days
2nd quarter	275 MWh	Plant was under shut down
3rd quarter	1659 MWh	Processing Re-started
4th quarter	2196 MWh	Full fledged Processing



Annual Energy Review Mechanism

- Full year energy performance will be presented to DMC members.
- In the same forum, Target for next year will be presented.







Energy Conservation - Awareness & Training Program



Energy conservation month organized to create awareness on energy and its importance among all the employees.

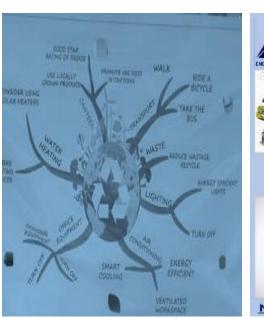
Brief Statistical note about Energy month:

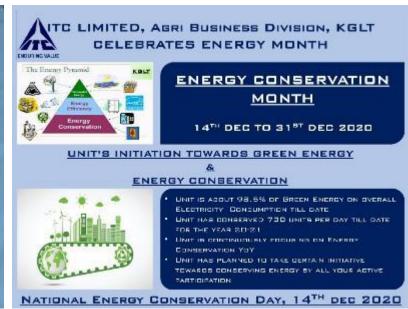
Organized a virtual awareness session on Energy conservation to the unit team and obtained energy conservation idea generation competition:

- **↓** 100% Participation
- ♣ No. of Ideas Generated: 54
- ♣ No. of Ideas Implemented: 23

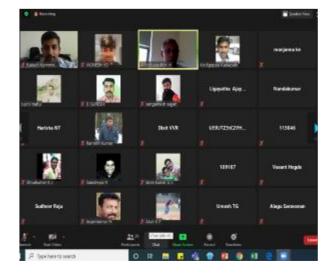
Unit organizes competition on:

- Slogans on Energy Conservation
- Awareness session on Energy Conservation to employees.





ENERGY CONSERVATION -Campaign & Awareness Program



SCHEME



ITC – Agri Business Division : Introduction	n : Introduction
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Waste utilization & Management

Impact of Covid-19

Green House Gases - Inventorization

Specific Energy trends

Greening the Supply chain

Global & National benchmarking

Employee involvement & Energy monitoring

Energy Saving initiatives

Energy management system & IGBC

Innovation in Energy conservation

Learning from CII Energy Award or any other Award program

Renewable energy footprint

Awards and Accolades

Energy management systems & IGBC





Energy Savings



Implementation of ISO 50001

% investment of energy saving projects on total turnover of the company

Energy Budget:

- o Prepared road map for ISO 50001.
- Target for obtaining ISO50001 certification by 2021-22.
- Thorough understanding of standard requirements.

% investment on Energy Conservation:

- o Company turnover (20-21): Rs. 821 Cr.
- Investment on Energy Conservation: Rs. 90
 Lakhs
- **% investment over Turnover: 0.11%**

"IGBC GOLD" rating

SCHEME



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Key Learning from CCI Energy Award



Key Learnings

- ✓ Exposure to latest technology in market towards energy conservation
- ✓ Pick up suitable Energy Conservation initiative like Godrej's Control Air, Intelligent Flow Control of Air compressor, Solar VFDs for pump sets etc.
- ✓ Exposure to vendors like ESCOs, RE players, auditors etc.
- ✓ Development towards soft skills in preparing presentation and presenting skills.

SCHEME



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Awards and Accolades

Awards & Accolades









ISO 9001 2015



ISO 14001 2015



ISO 17025 2017



UNIT RECOGNIZED WITH

"SHRESHTA SURAKSHA
PURASKARA" (SILVER
TROPHY) AT NATIONAL LEVEL
BY NATIONAL SAFETY
COUNCIL







Best Paper Finalist at Engineering Lean Six Sigma Conference (Institute of Industrial Engineers (Florida, USA)).



CICAL CONTROL OF CONTR

Karnataka State Level Safety Award - 2015
Large Scale Industry category.

2nd Best Project in CII's National Level Competition **Puraskara"** Award by National Safety Council, Karnataka Chapter

"Prashamsa Suraksha

3rd Best Safe Boiler at State Level

Awards & Accolades



2018-19

Six teams participated in the Zonal level QCC and Won "Silver" and "Bronze" awards











2019-20

Two teams participated in the National level QCC and Won "Excellent" and "Distinguish" award for **KGLT**



Eight teams participated in the Zonal level QCC and Seven teams Won "GOLD" and one team won "SILVER" awards





SHRESHTA SURAKSHA PURASKARA FROM NATIONAL SAFETY COUNCIL -**KARNATAKA**













National Award for Excellence in Energy Management, 2017 organized by CII





Overall 154 Indian Companies/Units from various sectors like Automobiles, Buildings, Metals and General category competed for the coveted award, out of which 66 Companies/Units were awarded the "Excellence Energy Efficient Unit Award"

KGLT recognized with "Excellent Energy Efficient Unit Award"

National Award for Excellence in Energy Management, 2020 organized by CII



ITC LIMITED, AGRI BUSINESS DIVISION, NANJANAGUDU



Team Members

DKCELLENT ENERGY EFFICIENT UNIT





BRAJENDRA

FACTORY MANAGER

CII's National Award always inspires us to surpass our past achievements & continue our journey on Energy Excellence,

This made us to come for 2nd time in last 3 years.

UNIQUE ACHIEVEMENTS

- Renewable Energy Footprint at 98.3% [Electrical Energy]
- Benchmarked performance in Energy Efficiency
- Surpassed the target energy conservation over last 5 years
 - Reduction Specific energy consumption from 189 kWH/ToT (2017-18) to 149.9 kWH/ToT



Confederation of Indian Industry 125 Years - Since 1895

21st National Energy Award for Excellence in Energy Management 🚄









Most Energy Efficient Unit across the globe [GJ/T]

Renewable Energy Footprint at 98.9% [Electrical Energy]

GHG Inventorization - National Benchmark across other Green Leaf Processing Units

STP Audit for Sustainable Tobacco Programme Highest STP score of 92% in India (next best is 62%)



THANK YOU



Saving of One Unit of Energy is equal to Generation of Two units of Energy

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