GFL®

GUJARAT FLUOROCHEMICALS

VALUE THROUGH GREEN CHEMISTRY

An INOXGFL Group Company

DAHEJ-A GUJARAT INDIA

FLUONOX® FKM

FLUONOX® FKM

INOFLON® PTFE| FEP| PFA

INOLUB™ FLUOROPOLYMER ADDITIVES

1. *Mr. Nitin Chaudhary : GM (TS)*
2. *Mr. Hardik Barot : Sr. Manager (Power Plant)*
3. *Mr. Samir Parikh : Sr. Manager (HSEF)*

Company Profile & Product :

Headquartered in Noida, India, Gujarat Fluorochemicals Limited (GFL), is a part of the INOXGFL Group.

GFL is an Indian Chemicals Company with over 30 years of expertise in Fluorine Chemistry. GFL holds domain expertise in Fluoropolymers, Fluorospecialities, Refrigerants and Chemicals, catering to the material requirements of modern world

GFL's global footprints are represented by three manufacturing sites in **India**, a captive Fluorspar mine in **Morocco** and wholly-owned subsidiaries in **Europe** and **USA**.

ISO: 9K, 14K, 26K, 27K, 45K, 204, 35K, Certificate .
SA: 8000,

GFL holds domain expertise in four major product verticals: **Fluoropolymers, Fluorospecialities, Refrigerants and Chemicals**. Our steadfast focus and attained expertise in Fluorine Chemistry enable us to develop, manufacture and commercialese Fluorine based products in record time complying to most regulatory requirements

Manufacturing Process

GFL is a major manufacturer of PTFE and other TFE and VDF based polymers (namely PVDF, FKM, FEP, PFA, PVDF etc.)

The process starts with manufacturing of Chlorine in Chloroalkyl plant, which reacts with Methanol in Chloromethane plant to generate Chloroform.

In AHF plant, Fluorspar is reacted with Sulphuric Acid and Oleum to generate Hydrogen Fluoride.

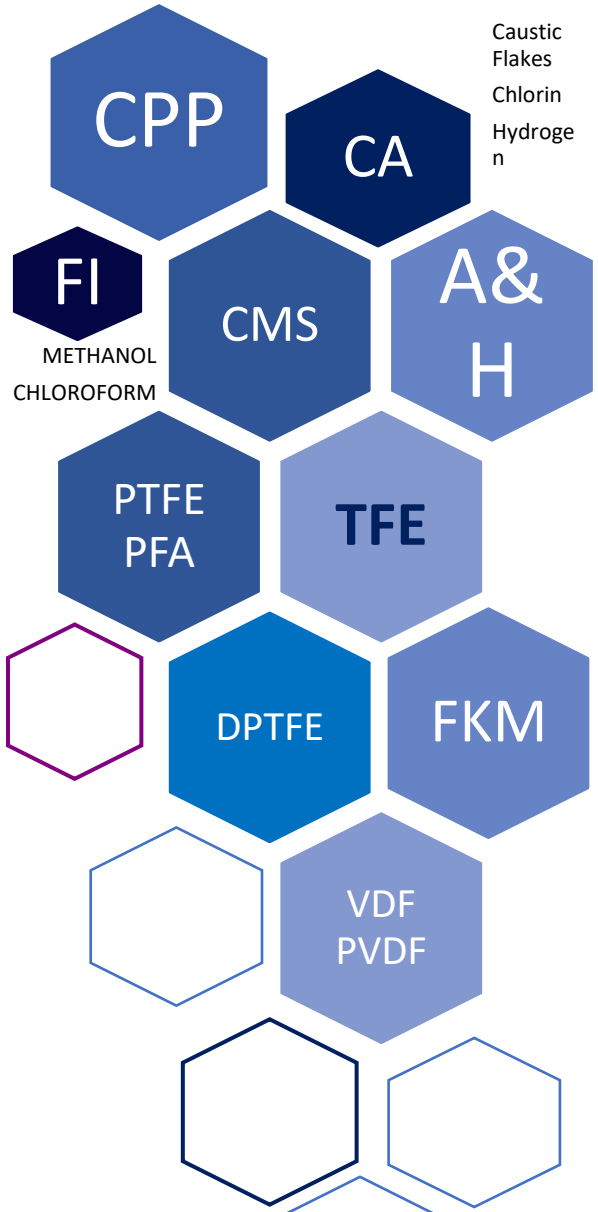
Hydrogen Fluoride reacts with Chloroform to generate R-22.

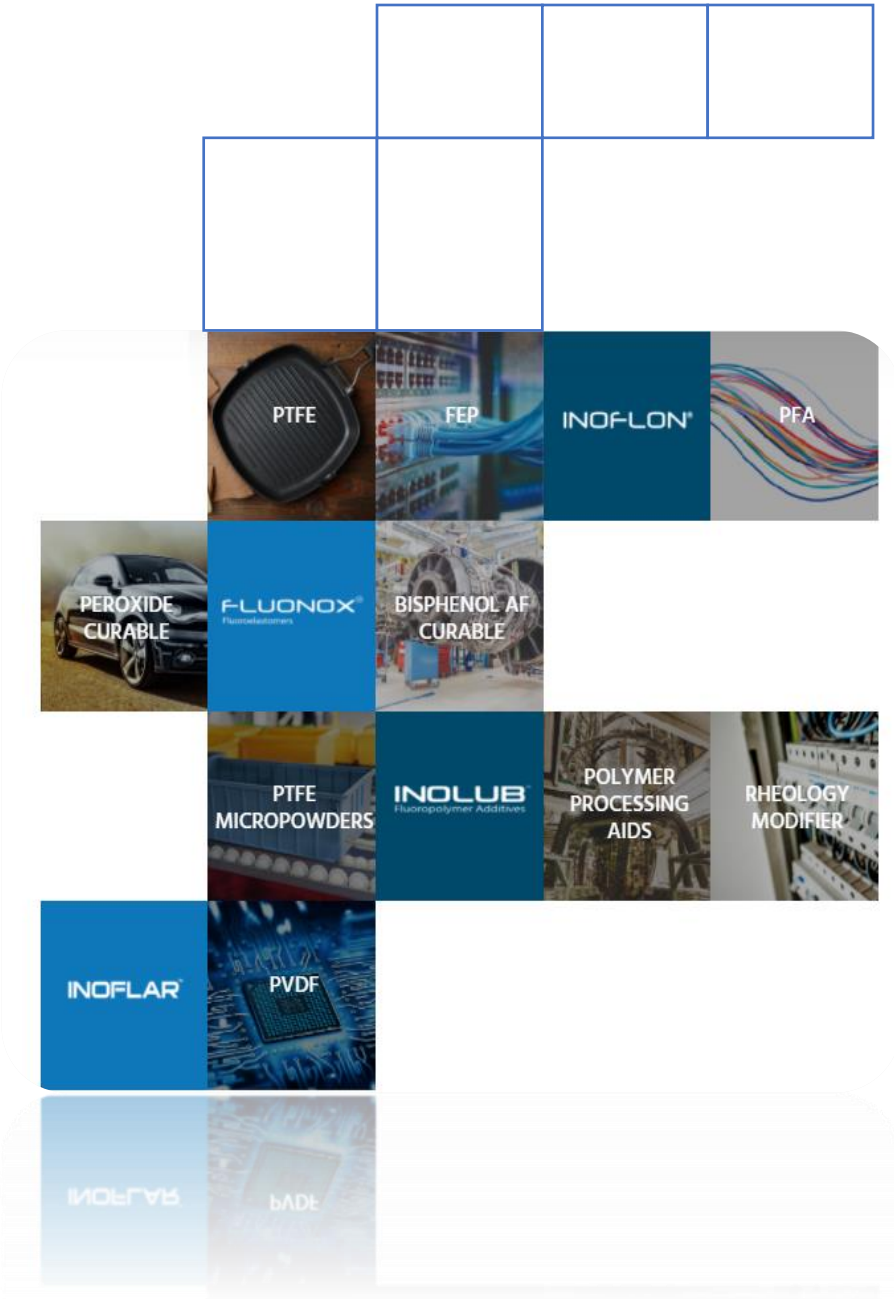
R-22 is cracked under high temperature to form TFE, which is the base monomer for further Polymerization processes.

Also, R-142b is cracked under high temperature to form VDF, which is also a monomer for our Polymerization processes.

Monomers at different compositions reacts in the Polymerization Reactors to generate different grades of Polymers

Our one of the product PVDF, is being used for renewable energy through solar panel film as well as in Lithium battery for **EV segment**.





Specifications of Major sections: Captive Power Plant

Power / Steam Generating Installations with capacity

STG-1
18 MW Condensing Turbine
(Siemens Make)

STG-3&4
4.5 MW Each
(Condensing Turbine, Triveni Make)

GT-1
5.5 MW Gas Pressure Turbine
(Solar Turbine Make)

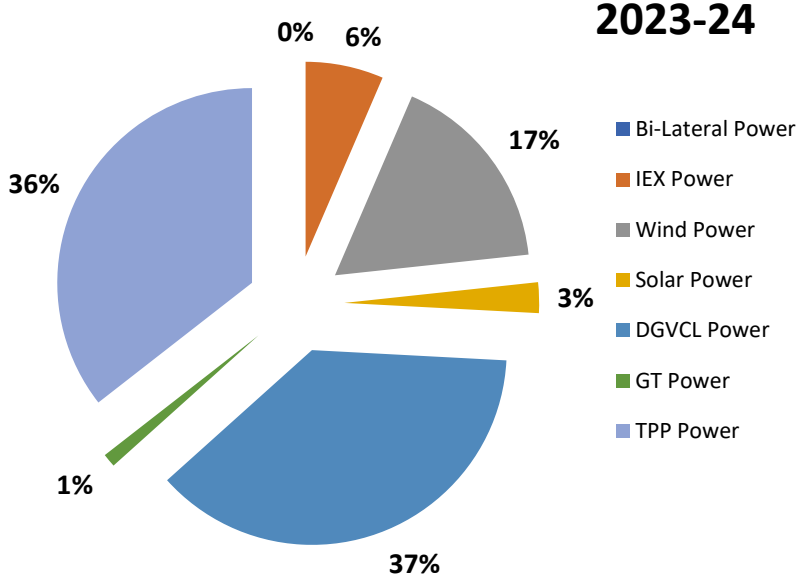
STG-2
8 MW Back Pressure Turbine
(Siemens Make)

STG-5
3.95 MW Back Pressure Turbine
(Siemens Make)

GT-4&5
13.5 MW Each Gas Pressure Turbine
(Solar Turbine Make)

71.45 MW

Power Mix 2023-24



75% : Import + IEX + Wind Power

+

25% : Self Power Generation

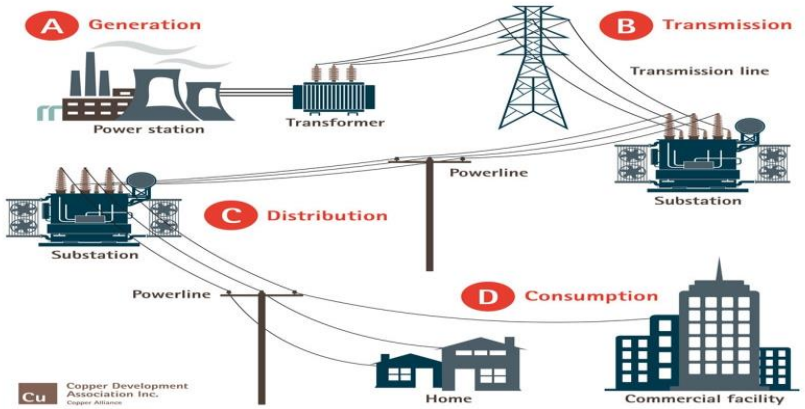
→ Complex Demand : **80 MW**

2 X 100 TPH AFBC Boilers (ISGEC Make)

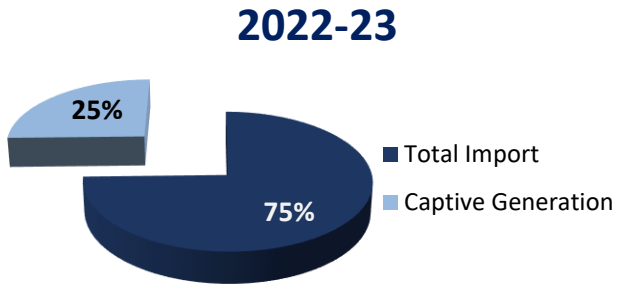
→ 2 X 20 TPH HRSG Boilers (ME Make), Associated with GT-4 & GT-5

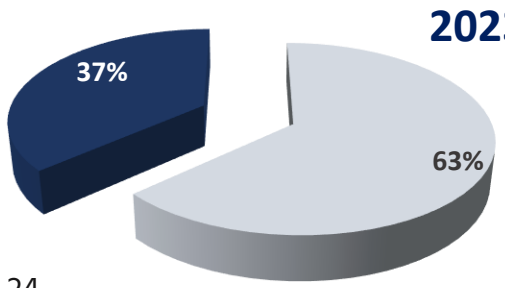
→ 1 X 10 TPH H2 Boiler (Chinese Make)

Energy Contribution



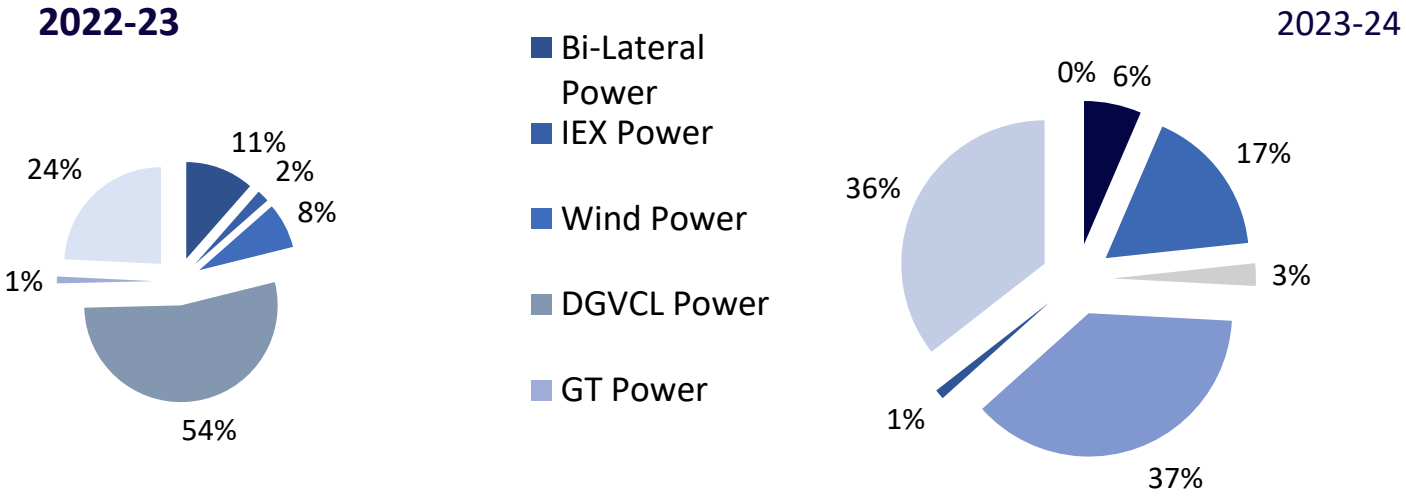
Captive Generation Mix in Total Power Demand





- Captive Generation contribution Increased from 25% to 37% in FY 23-24.

Power Mix at Dahej Site :

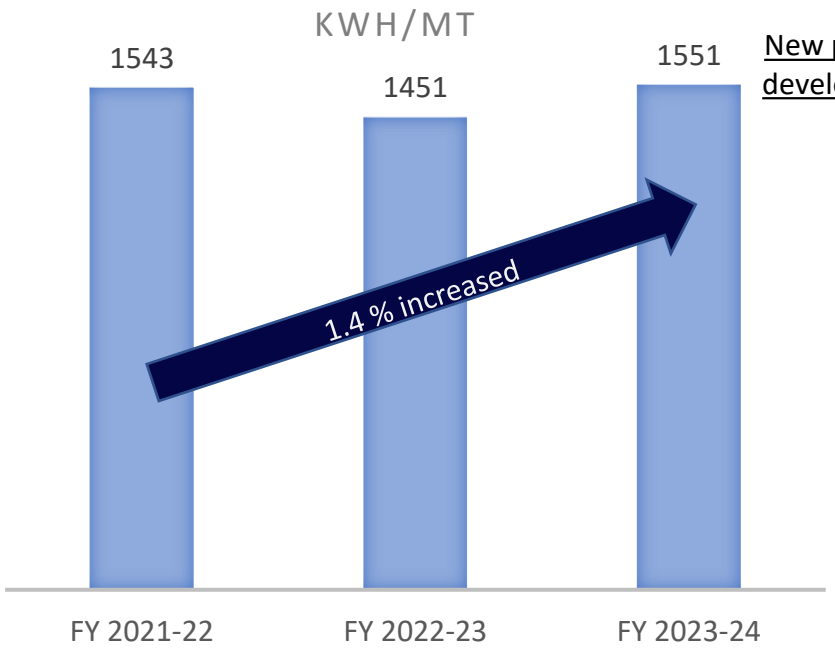


- Total Power consumption has been decreased by 4.8% (From 79.72 MW in FY 23 to 75.87 MW in FY 24)
- Total import power has been decreased by 19.2% (From 59.49 MW in FY 23 to 48.06 MW in FY 24)

Specific Energy Consumption last 3 years

Electrical Energy

Items	FY 2021-22	FY 2022-23	FY 2023-24
Overall Energy Cons (Kwh)	664181317	698405079	664632580
Total Prod (Mt)	430490	481276	428393
Kwh /Mt	1543	1451	1551

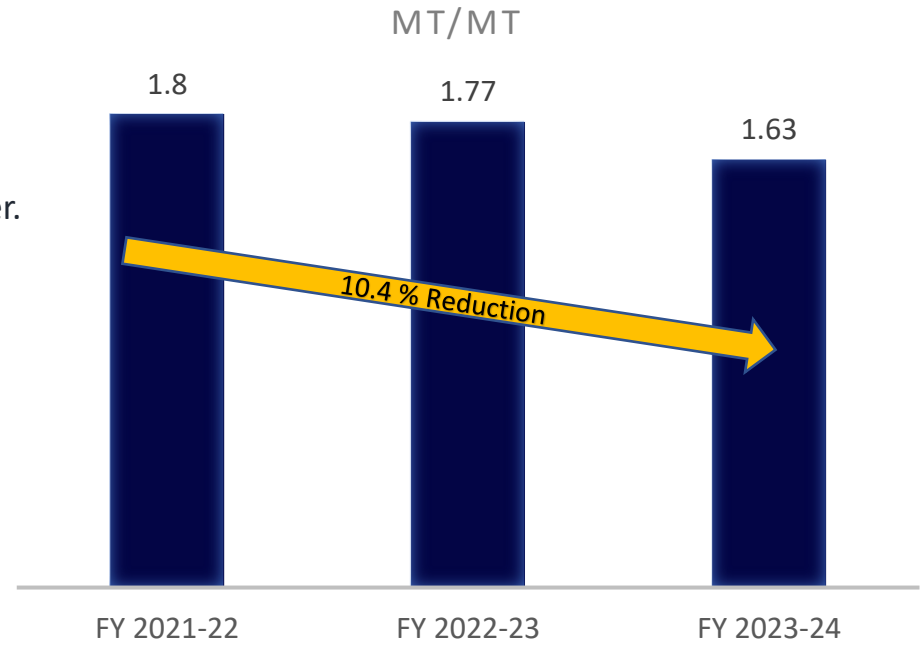


New product development

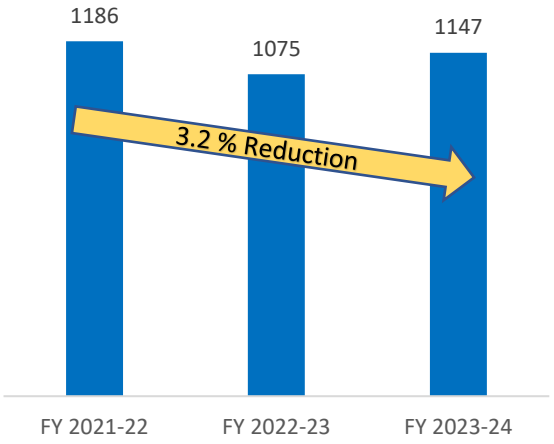
-Steam Based VAM converted in chiller.
-Steam loss survey
-Steam trap audit

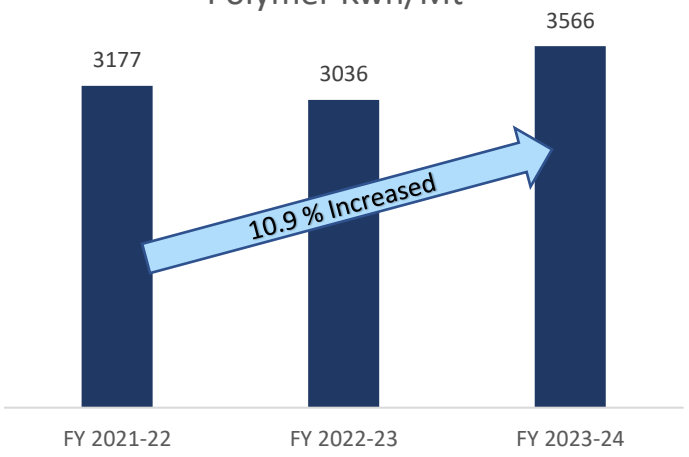
Thermal Energy

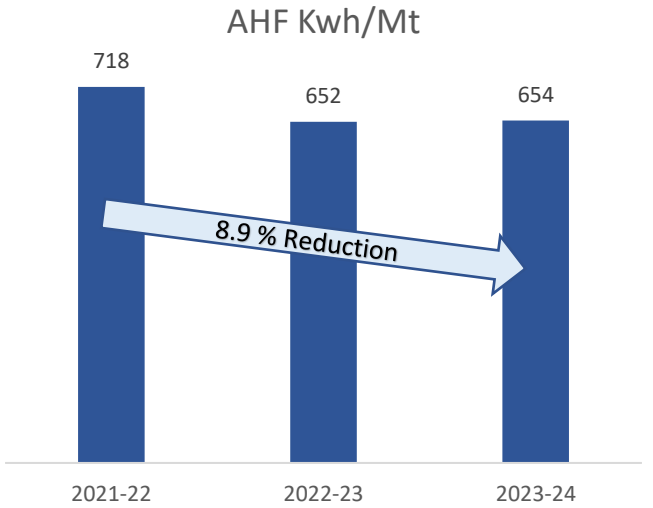
Items	FY 2021-22	FY 2022-23	FY 2023-24
Overall Energy Cons (Mt)	775006	853427	696517
Total Prod (Mt)	430490	481276	428393
Mt/Mt	1.8	1.77	1.63

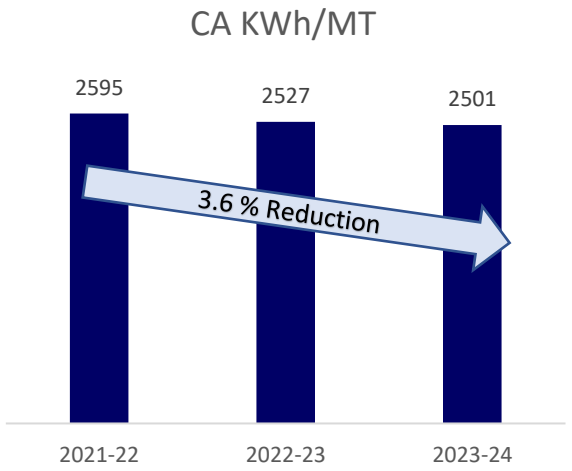


Specific Electrical & Thermal Energy Consumption -Product Specific



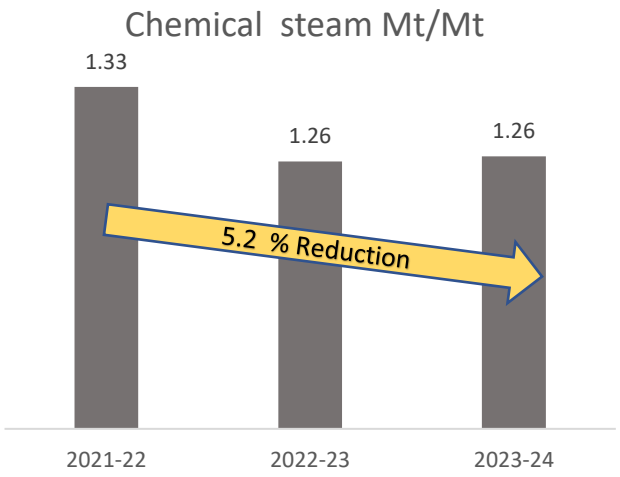


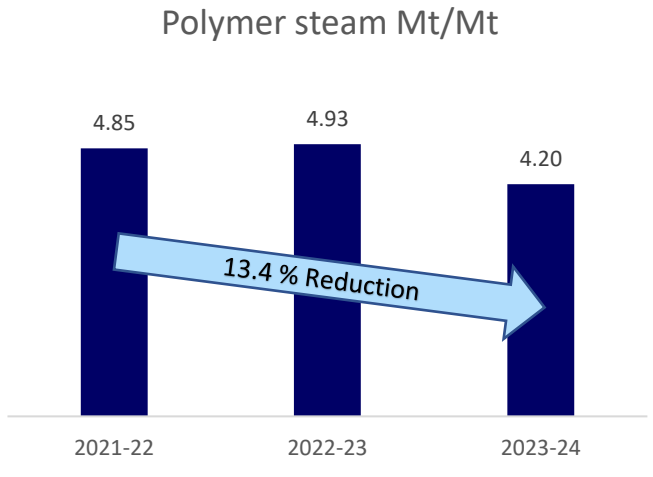


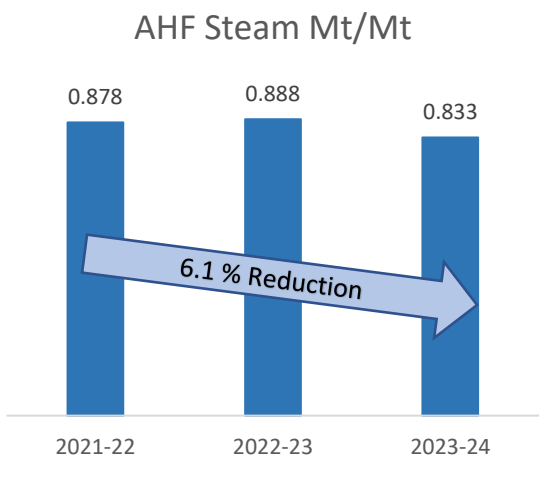


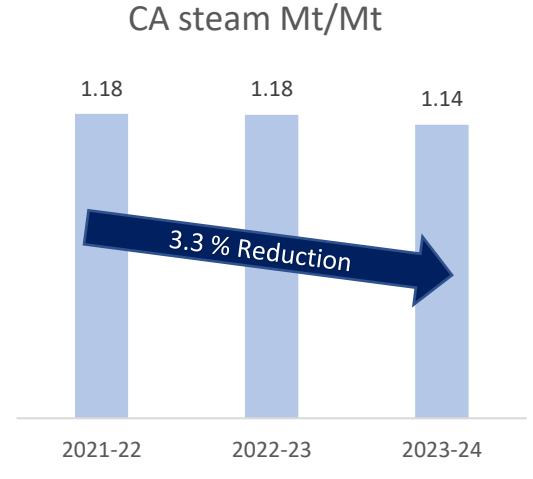
- Refrigeration system optimization
- Chiller load reduced by optimization and distribute in process
- DPTFE flash steam use in TFE process for preheat
- Heat recovery in Distillation section
- Improved Assets Utilization

Through Various ENCON Projects

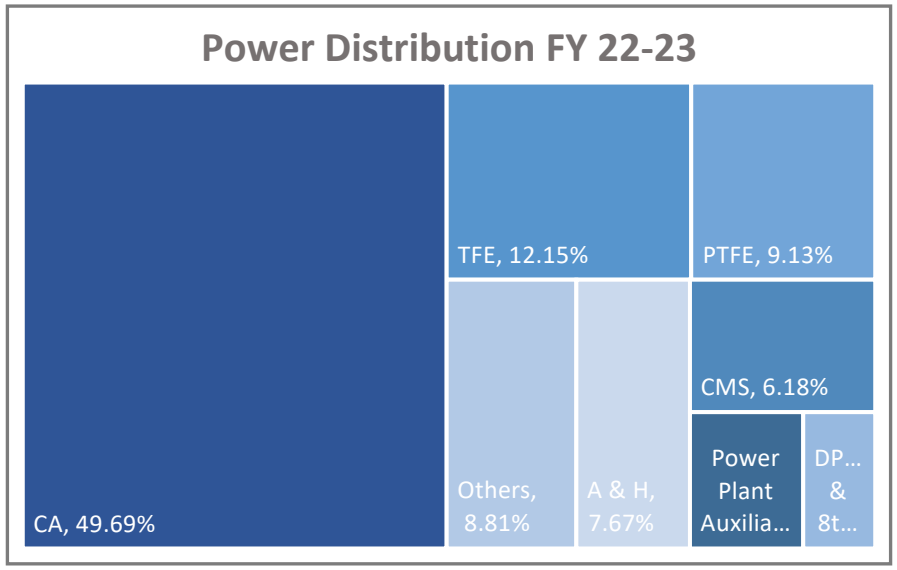


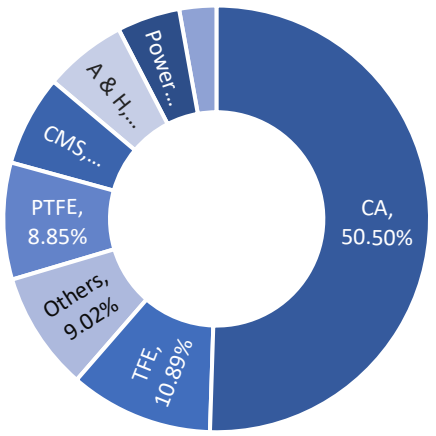


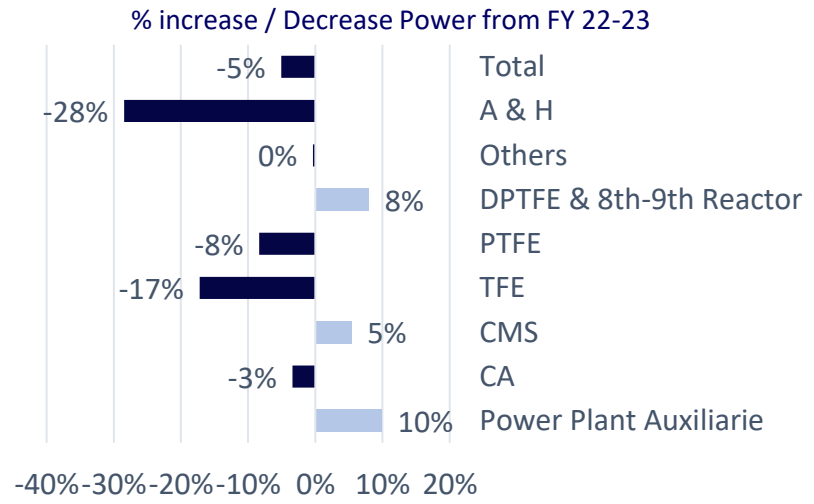




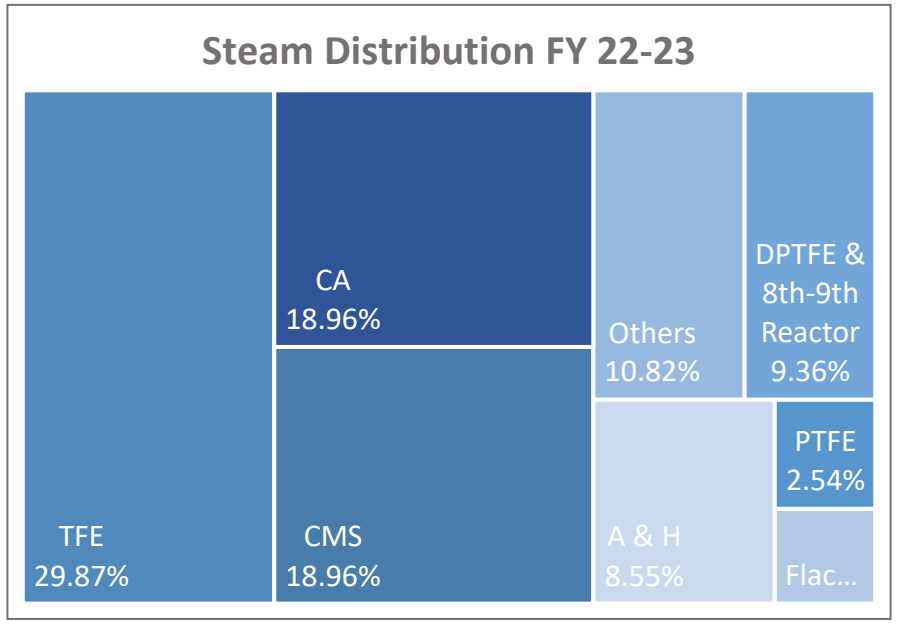
Power & Steam Distribution across complex

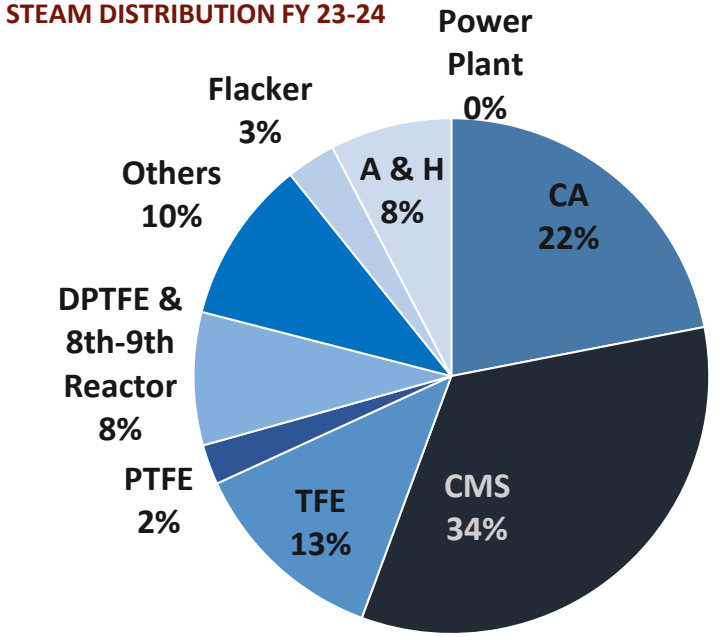


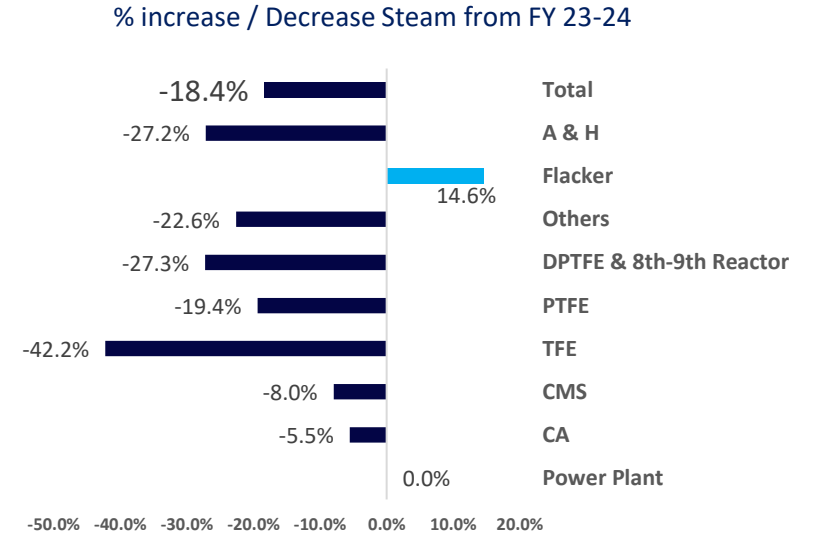




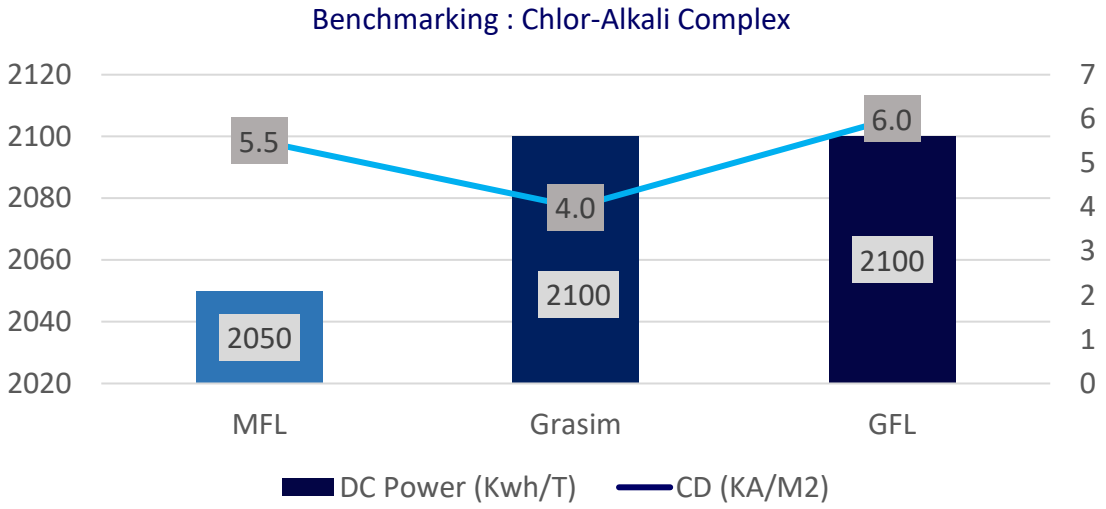
- Total Power consumption has been decreased by 4.8% (From 79.72 MW in FY 23 to 75.87 MW in FY 24).
- Back Pressure Turbine Power Generation has been decreased from 8.26 MW to 7.35 MW in FY 23-24.

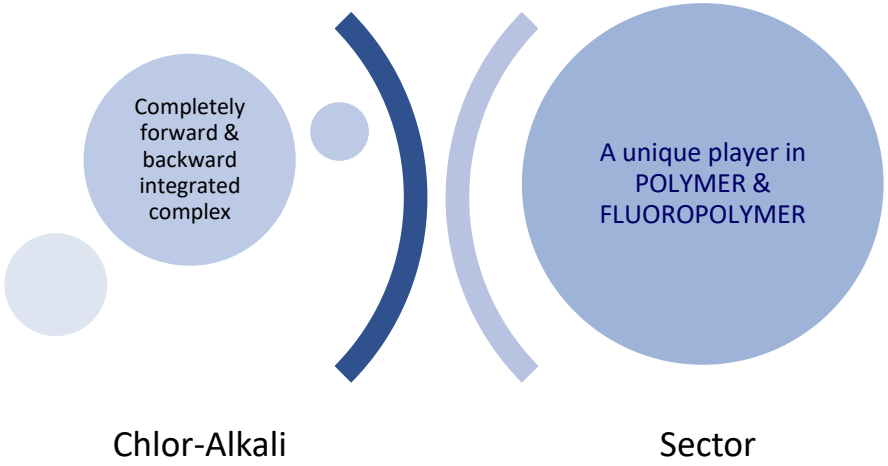




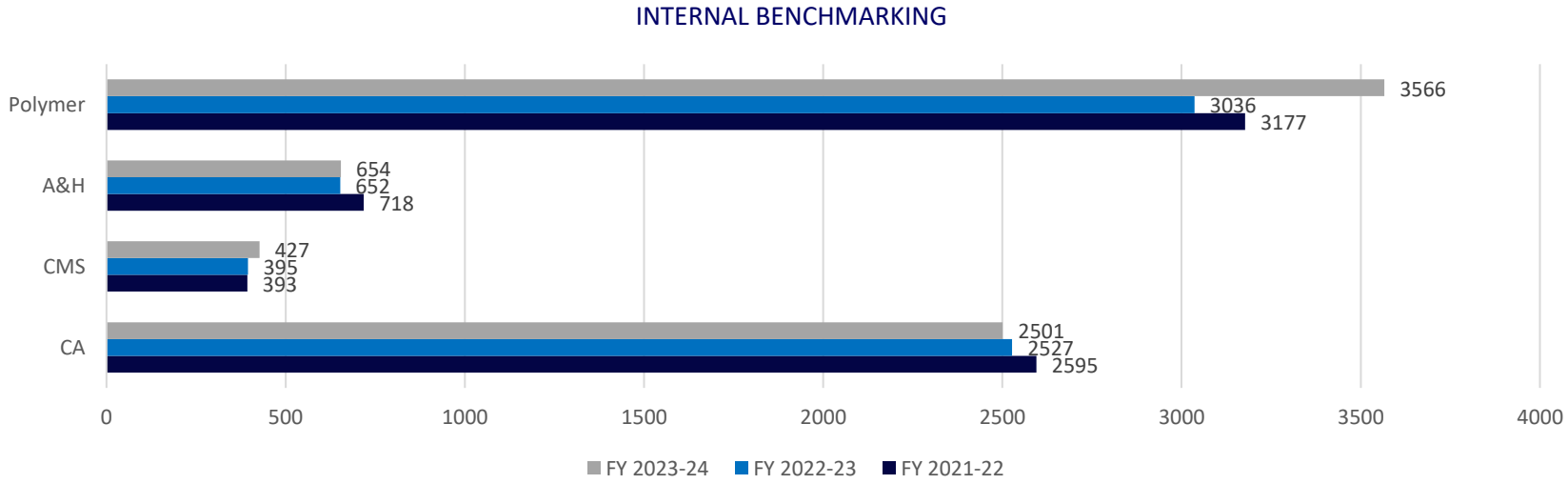


Information on Competitors , National & Global Benchmark





Internal Benchmarking



Roadmap – To Achieve Target –ENCON Projects Planned in FY 24-25

Steam condensate recovery to be improve from 71% to 80%
Energy Saving : 180KLD
Investment : 0.2 Cr ,Saving : 0.5 Cr

Installation of 900TR chiller in place of 600 TR VAM
Investment: 5.19Cr
Saving : 2.66 Cr/A

Installation of Zero Gap Membranes in Electrolyzer
Power Saving :7.8 M Kwh
Investment : 3 Cr , Saving : 2 Cr/A

FY 20-21	•1586 •Kwh/Mt	
FY 21-22	•1543 •Kwh/Mt	
FY 22-23	•1451 •Kwh/Mt	
FY 23-24	•1551 •Kwh/Mt	

1474 Kwh/mt

5 % Reduction

De-staging of Boilers Feed Pumps : Investment : 0.13 Cr, Expected Saving : 0.25 Cr

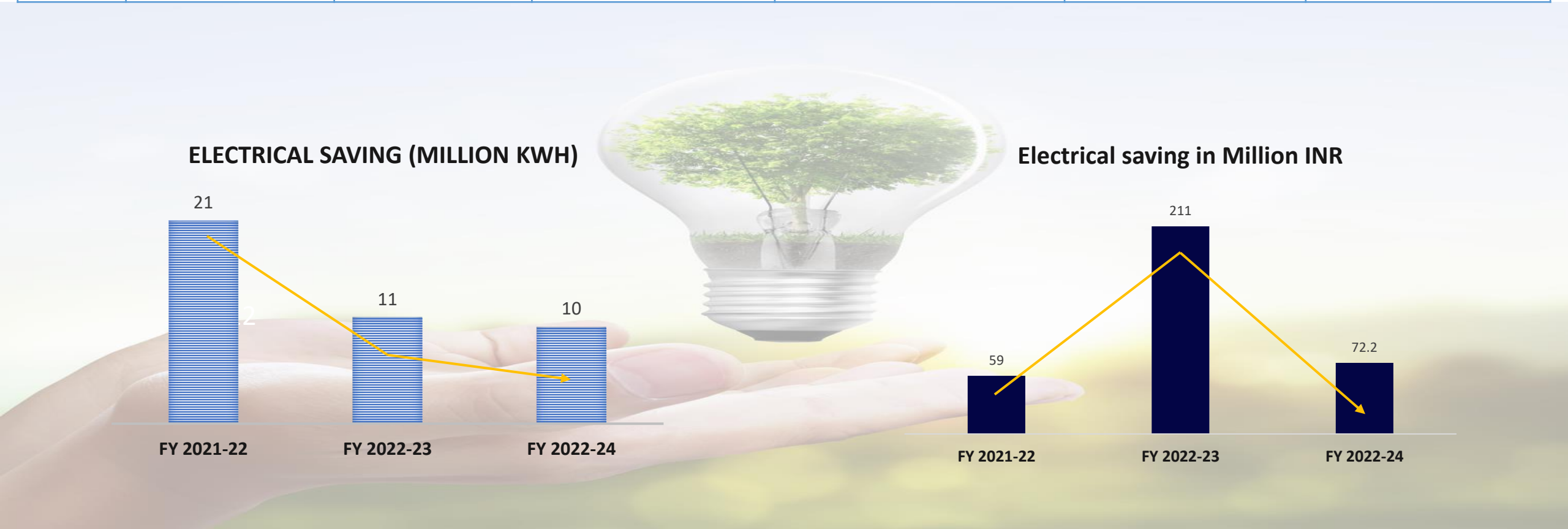
Installation 20 MVAR HT capacitor bank to improve overall Power Factor from 0.91 to 0.98 on 66kV grid. Investment : 8 Cr , Saving : 3.2 Cr

Ref System Losses Optimization, Power Saving : 6.5 M Kwh, Investment : 0.6 Cr, Saving : 0.5 Cr

STG-2 Turbine Steam Path clearances optimization through Overhauling. Expected Saving - 2 Cr

Energy Saving Projects Implemented in Last 3 Years

Year	No of Energy Saving Projects	Investment (INR-Million)	Electrical Saving (Million KWH)	Thermal Saving (Million Kcal/MTOE)	Savings (INR-Million)	Impact on SEC (Thermal, Electrical)
FY 2021-22	21	40	7.4	-	59	0.2%, 2%
FY 2022-23	11	127	10.4	7767	211	5.5%, 1.7%
FY 2023-24	11	168	9.3	11638	133	3.5%, 1.5%



Initiatives Taken For Energy Conservation

Condensate Polishing Unit with High Temp Resin	Steam consumption reduction by 0.5% in turbines	Conservation of natural resources, Water & Coal	Makeup water saving reduction by 1250 KLD	Reduction in carbon footprints	Investment :50 Lakh	Benefit : 291 Lakh/Annum
Reduction in Coal Consumption in Boilers	Conservation of natural resources	Reduction in coal consumption by 0.5%	Reduction in carbon footprint	Benefit : 51 Lakh/Annum		
Insulation Thickness Survey Across Complex of Refrigerant Lines	Reduction in power consumption across polymer complex by 0.4%	Reduction in carbon footprint	Investment : 120 Lakh	Benefit : 150 Lakh/Annum		
Energy Efficient FRP Blades in all Cooling Towers	Reduction in Power Consumption	Investment :50 Lakh	Benefit : 55 Lakh/Annum			
Conversion of Electrolyser to Zero Gap at Chlor-Alkali Plant	Power saving by approx 6.7 MW					
STG-1 Turbine Steam Path clearances optimization through Overhauling. Expected Saving - 2 Cr						

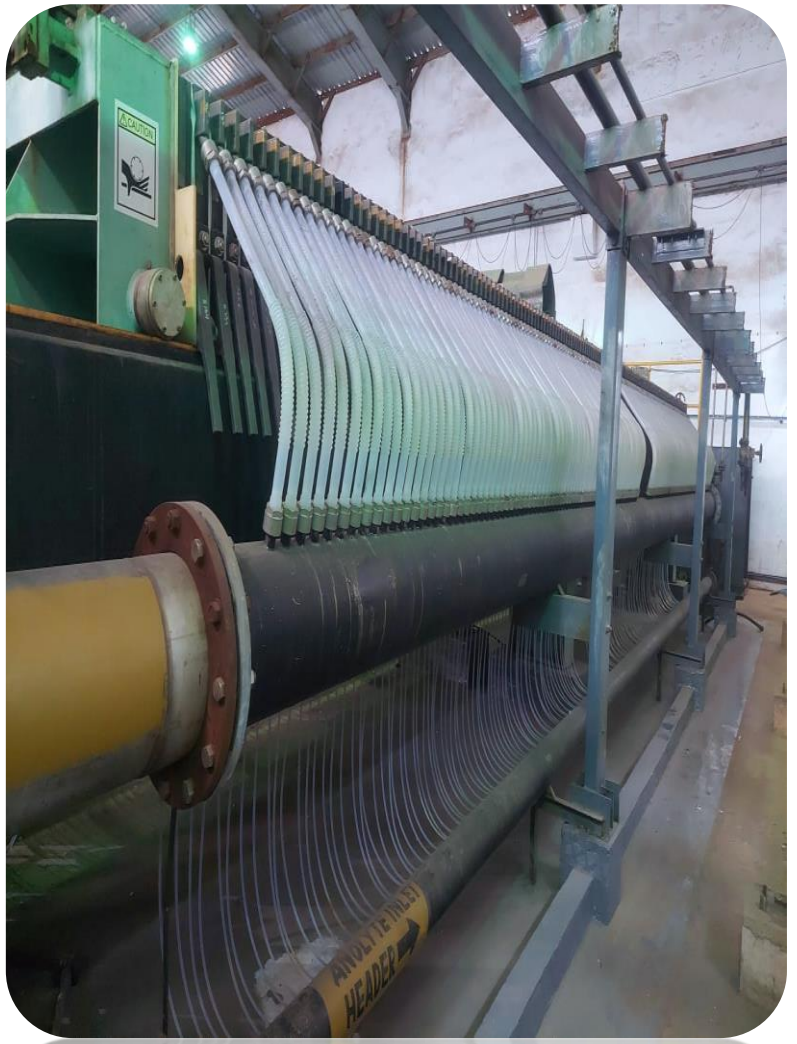
There are many other energy conservation recommendations , identified during audit, are under regular review for timely implementation.

Energy Saving Projects implemented in last 3 years

Sr.no	Year	Project	Investment (Million INR)	Electrical Saving (million KWH)	Thermal Saving (Million Kcal)	Total Saving (Million INR)	Payback (In Months)
1	2023-24	New open type highly efficient brine chiller (-5) DegC with HT motor installed / commissioned & 2 nos. package chillers & 1 no. obsolete vertical compressor with LT motors stopped	11.745	0.00016	0	10.91	13
2	2023-24	Munter's make high efficiency EC (electronically commutated) fan installation in FKM Plant AHU-1.	1.064	0.00002	0	1.05	12
3	2023-24	Revamping of S&A cooling tower (CT) to improve ove all effectiveness & reduce its power consumption	2.18	0.00001	0	0.47	56
4	2023-24	Integration of PTFE and S&A CT to save power when plant load minimum.	0.0	0.00003	0	0.59	0
5	2023-24	Interconnection of 6th and 7th DPTFE reactor cooling tower.	0.4	0.00004	0	2.80	2
6	2023-24	TFE-1 Augmentation cooling tower (1200M3PH) load to be diverted on R-125 new C.T (825 M#PH)during winter season for energy saving purpose.	3.3	0.00003	0	0.52	77
7	2023-24	2 Nos. old VAM machines and S&A old chiller were running to cater the chilled water load for S&A/FKM/PTFE/PT-PTFE plants	8.3	0.00060287	11637.5	36.659	2.7
8	2023-24	De-staging of Boiler feed water pump under ENCON project (BFP-1)	0.4	0.42	_	3.6	3.0
9	2023-24	De-staging of Boiler feed water pump under ENCON project (BFP-3)	0.4	0.42	_	3.6	3.0
10	2023-24	Installation of micro turbine	20	1.36	_	12	18.0

Energy Saving Projects implemented in last 3 years

#	Year	Project	Investment (Million INR)	Electrical Saving (million KWH)	Thermal Saving (Million Kcal)	Total Saving (Million INR)	Payback (In Months)
01	2022-23	Re-membraning and replacement of anode & cathode mesh towards zero gap technology	127	7.3	0	62	25
02	2022-23	Boiler feed pump ARC (Automatic Recirculating Valve) overhauling / repairing work was carried out resulted saving in terms power as daily power consumption	5	0.3	0	2	25
03	2022-23	VFD enabled New Air compressor installation	7	0.2	0	1	63
04	2022-23	Usage of Chillers instead of VAM during CPP annual shutdown	0	0	3192	8	0
05	2022-23	Blowdown Tank Flash Steam recovery system has been taken in line through Deaerator-1	0	0	1890	5	0
06	2022-23	Distillation column operation optimization through Aspen simulation	1	1.2	0	11	1
07	2022-23	Utilization of reactor heat recovery and optimization of distillation operation.	0.2	0	5531	13	0
08	2022-23	TFE#1 Utility Section (-)35'C Evaporator tube cleaning work taken in SD_Sept22	6	0.8	0	7	11
09	2022-23	TFE#1 Utility Section (-)15'C Evaporator tube cleaning work taken in SD_Sept22	1.6	0.20	0	2	11
10	2022-23	Usage of Chillers instead of VAM during CPP annual shutdown	0	0	3192	8	0



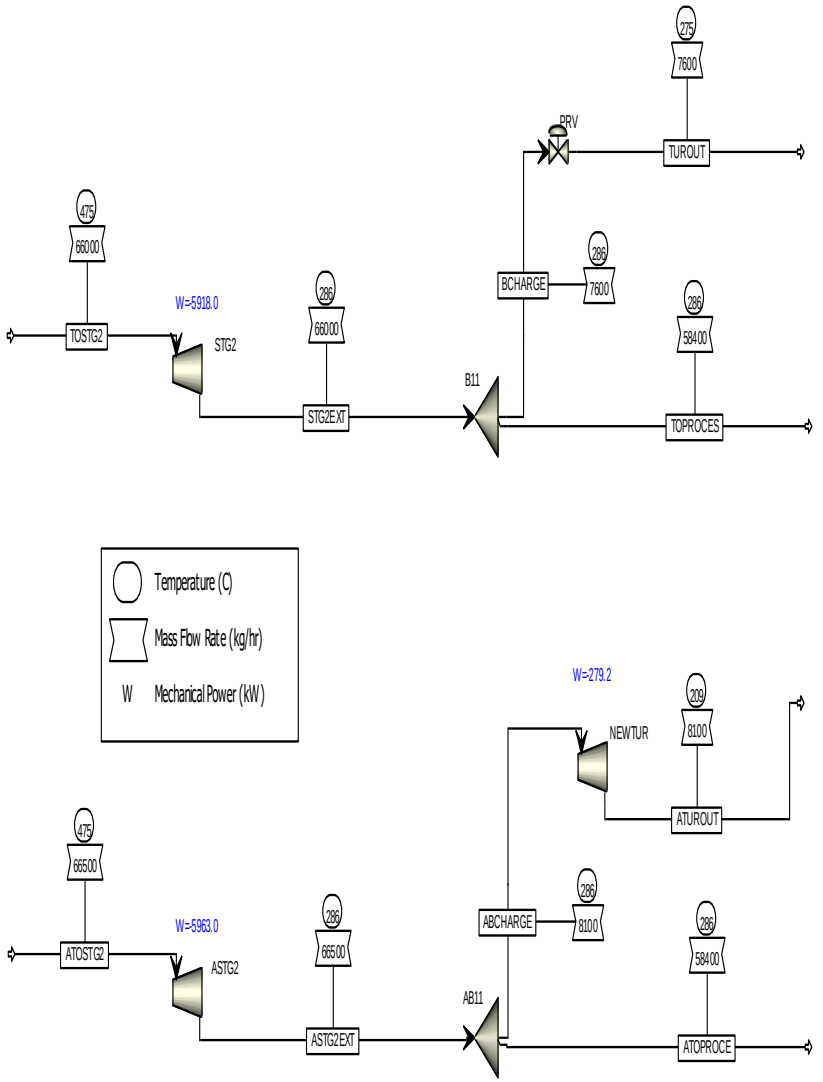
Energy Saving Projects implemented in last 3 years

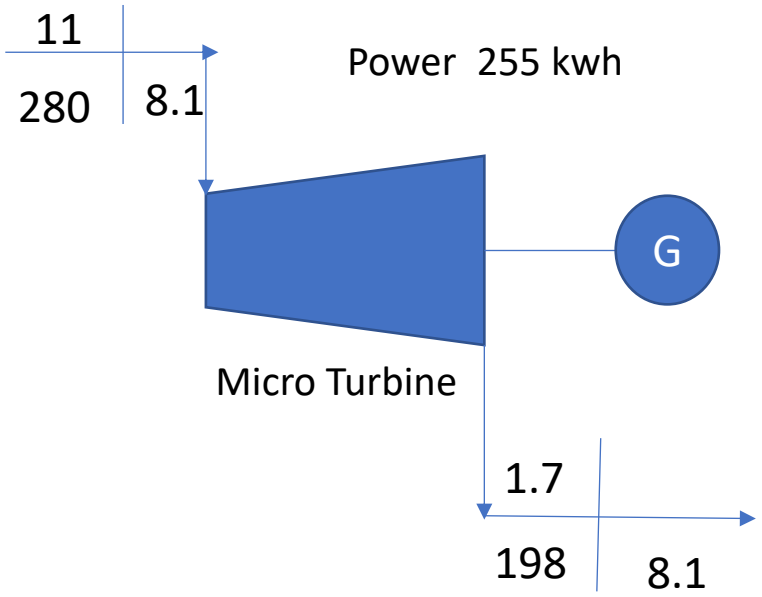
Sr. No.	Year	Project	Investment (Million INR)	Electrical Saving (million KWH)	Thermal Saving (Million Kcal)	Total Saving (Million INR)	Payback (In Months)
01	2021-22	Electrolyser E-Zero gap	55	2.85	0	24	27
02	2021-22	Utilities – TFE2: Installation & commissioning of efficient standby pump (-15) Deg C . BEFORE: with P804A: Amp was = 160 amp. AFTER: with P804C: Amp = 140 amp. Savings = 20 amp.	1	0.10	0	1	14
03	2021-22	VDF & TFE2 Utilities: Refrigeration systems & associated pipelines cold insulation losses reduction of VDF and TFE2 plant & Utilities.	3	1.12	0	10	4
04	2021-22	TFE2 Utilities: Refrigeration systems COP – Coefficient Of Performance improvement through execution of various identified jobs apart from CT: Cooling Tower's refurbishment / design changeover from cross to counter / 1 cell addition to improve CT efficiency to max possible extent as executed at TFE1 Utilities during last FY.	7	1.32	0	11	8
05	2021-22	At TFE-1 Utilities: Stoppage of 1 No. (-5) DegC refrigeration compressor (Old : 3# was in ops, Now: 2# are in ops) through integration of (-15) compressor suction header with (-5) compressor suction header by laying down additional 4" R22 refrigerant pipeline.	4	0.99	0	8	6

Expected Theoretical Performance

- Presently Deaerator steam (1.7 kg/cm2, 7.6 TPH) requirement is fulfilled by the MP steam (12 Kg/cm2) with two sets of PRV in line. It was proposed to installed micro turbine to conserve energy as per the CII recommendation. Detailed Simulation study of Power and Steam network done to evaluate the benefit of the scheme by Central Technical Services.

Actual Performance





Investment: Total Project Cost 200 Lacs

Installed capacity: 350 KW@ 10 TPH

Operation condition: 255 kw@ 8.1 TPH

Expected power in a year: 1744000

Power Cost: 8.5 Rs/Kwh

Operating hrs.: 8000

Project Frame:	Before	After
Steam to dearetor, kg/hr	7600	8100
Power recovery	0	255
Auxiliary consumption, power kw		5
STG2 steam, kg/hr	66000	66500
STG2 Power	5918	5963
STG2 power increase, Kwh		45
Auxiliary Power consumption, kwh		5
Net Power Increase		295
Net steam increase at Boiler, kg/hr.		500
Power cost, Rs/kwh		8.5
Steam cost, Rs/kg (Rs 2100 per ton)		2.1
Power saving Rs. Lacs		200.6
Steam generation cost		84
Net Saving Rs. Lacs		116.6

- Auxiliary power consumption (AOP, cooling water, lighting ,UPS): 40000 kw/year
- Additional steam consumption 500 kg/hr. at deaerator.
- PAYBACK= 18 Months

It is an ENCON project suggested by CII. In CPP, we have two Boilers. For the purpose of feed water supply , 3 BFPs are installed (One Stand-by &Two running) . As per internal discussion after receipt of VFD proposal, it was decided to explore de staging For this is cost effective solution. Accordingly offer was invited from OEM M/S KSB for de staging of BFPs.

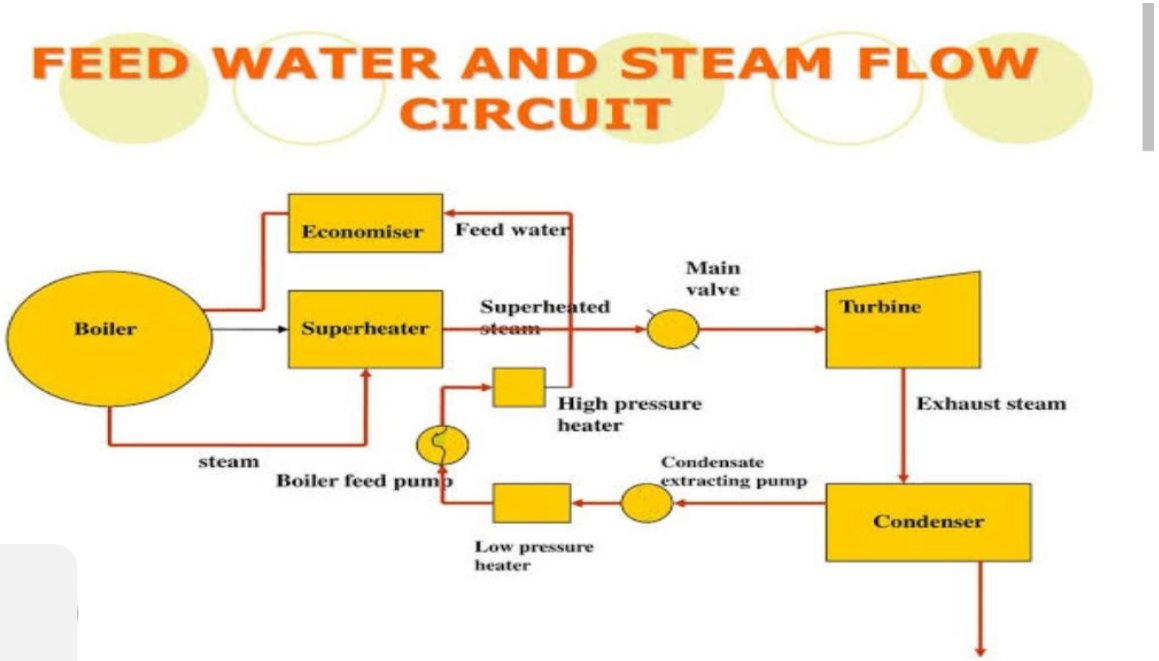
pump is operating with low (80 to 100 m3/hr.) flow than design (136 m3/hr), there is re-circulation occurred in pump stage casing impact on stage wear rings resulting in increased clearances of wear rings.

If Boiler Steam demand is high say 120TPH, pump can deliver the same with 920m head against rated Drum Pressure 75Kg/cm2. per recent performance, Boiler Feed pump(s) is/are not delivering desired reliability due to frequent high vibrations.

One of the actionable which is contributing high vibration is higher capacity of Boiler feed pump which can be optimized by stage reduction in the pump.

Payback = (21.7*2/40.32*2)*12 i.e.6 Months.

S. No.	Description	Unit	
1	Installed Capacity of BFP	KW	500
2	Present Operating Power (Pump)	KW	445
3	Operating Power (Pump)- After De staging	KW	382
4	Net Saving	KW	63
5	Considering Hours in a Year	Hrs	8000
6	Considering Power Cost	INR / KWH	8.0
7	Net Saving per annum @ one Boiler Feed Pump	INR	40,32,000

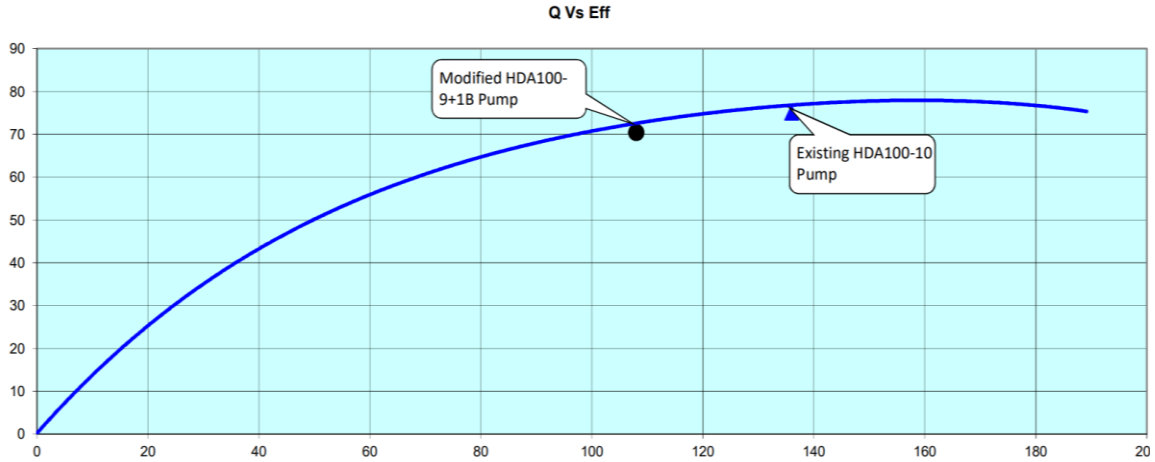


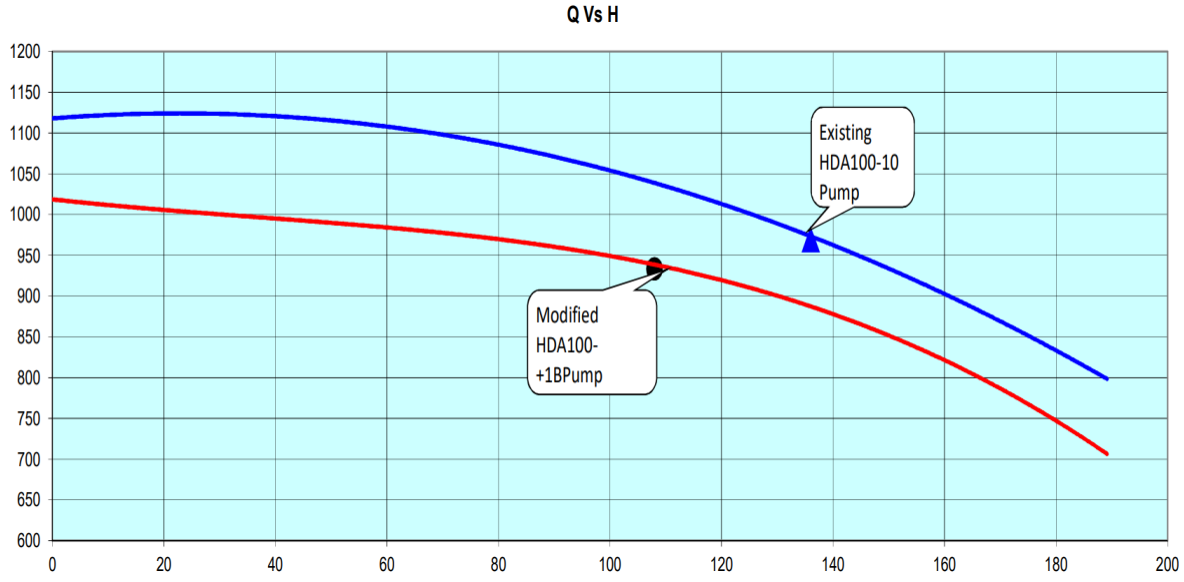
Innovative Project and implemented : De-stagging of Boiler feed water Pump

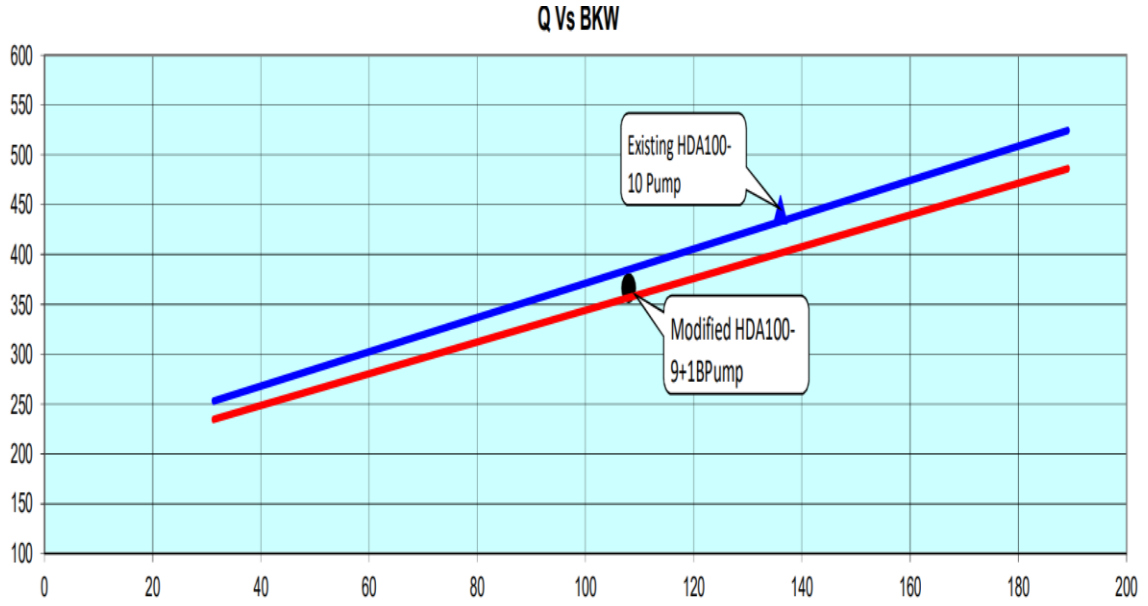
PERFORMANCE CURVE

Customer/Project	Gujarat Fluorochemicals Limited
Pump type	HDA100-10
Pump S.O No	5111014106
SQ No.	SQ:20217842

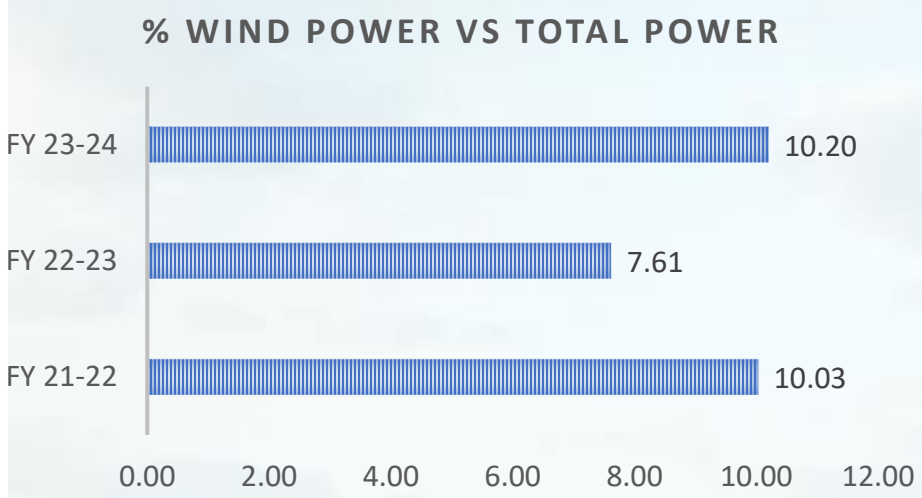
Parameters	Capacity	Head	BKW	Efficiency	Speed	Conditions
	(Q) m3/hr	(m)	KW	%	RPM	
As Per Datasheet	136.00	970.0	445.0	75.0	2980	Existing Pump - HDA100-10
Modified Pump	108.00	933.0	366	70	2980	Modified Pump - HDA100-09+1B



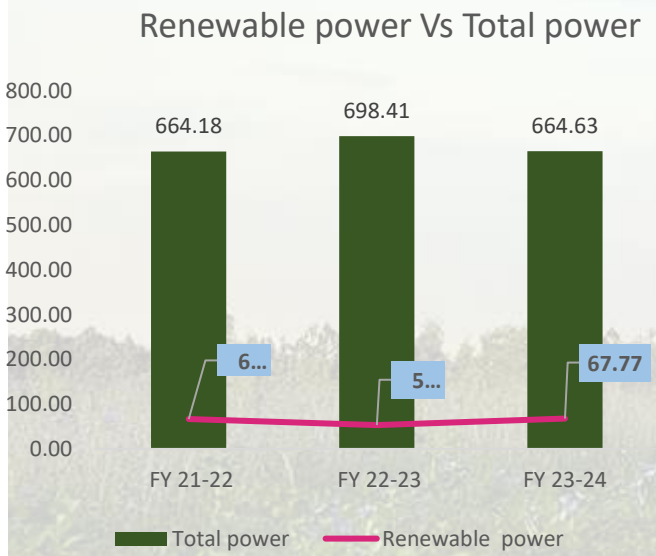




Utilization of Total Renewable Energy Sources (Wind, Hybrid Solar and Wind) - Offsite

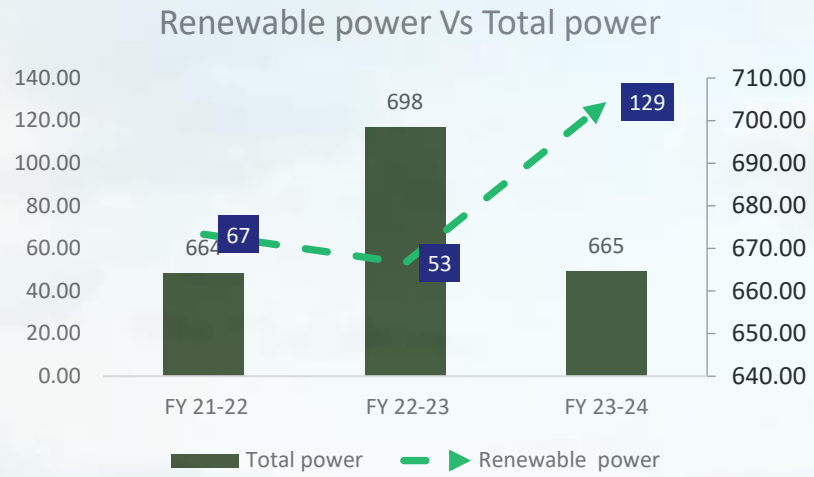


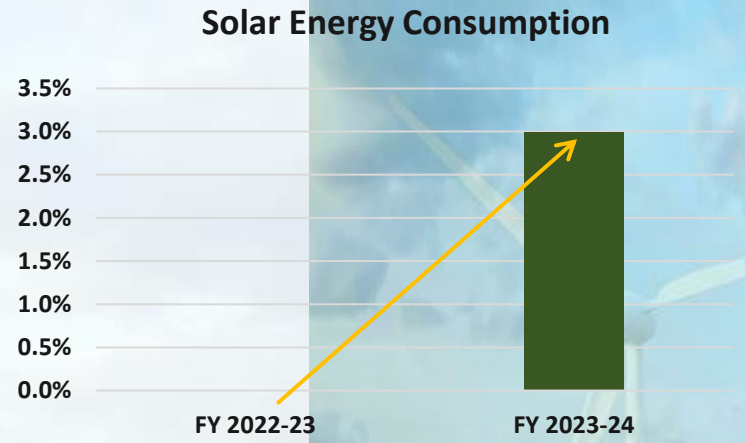
To increase % of RENEWABLE POWER--8 MW + 12 MW : 20 MW : Solar-Wind Hybrid Tied Up Done (50% PLF considered)



Year	Technology (Electrical)	Type of Energy	Onsite/Offsite	Installed Capacity (MW)	Generation (Million KWH)	% Overall Energy
2021-22	ELECTRICAL	WIND POWER	OFFSITE	50 MW	66.60	10.03
2022-22	ELECTRICAL	WIND POWER	OFFSITE	50 MW	53.16	7.61
2023-24	ELECTRICAL	WIND POWER	OFFSITE	50 MW	67.77	10.20

Utilization of Total Renewable Energy Sources (Wind, Hybrid Solar and Wind) -offside





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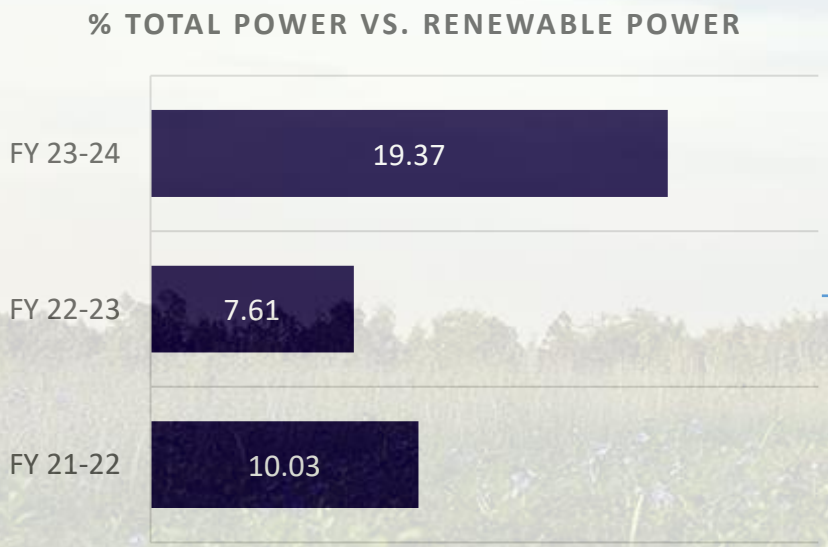

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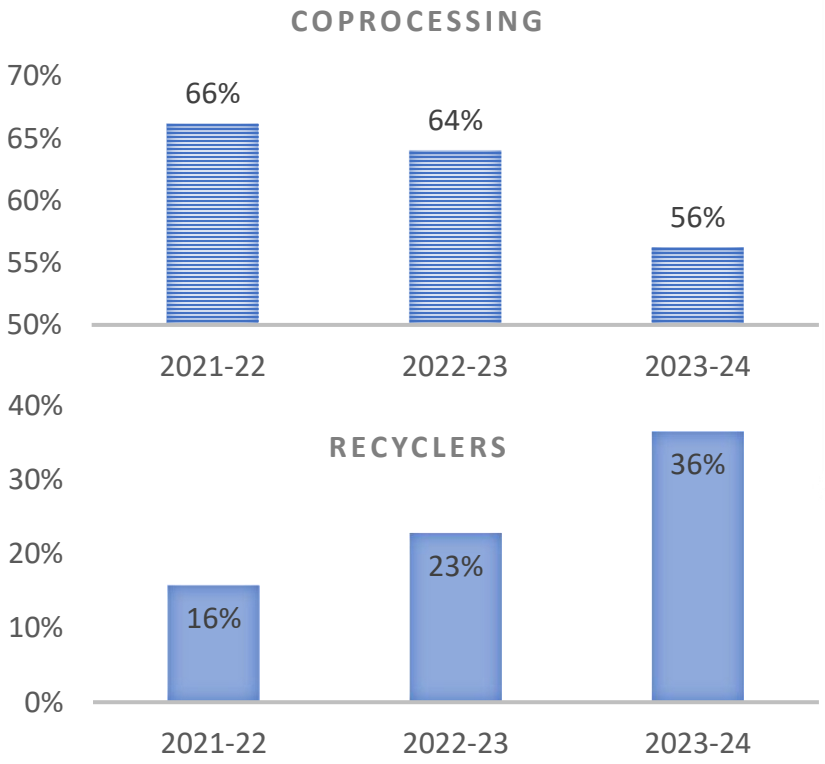
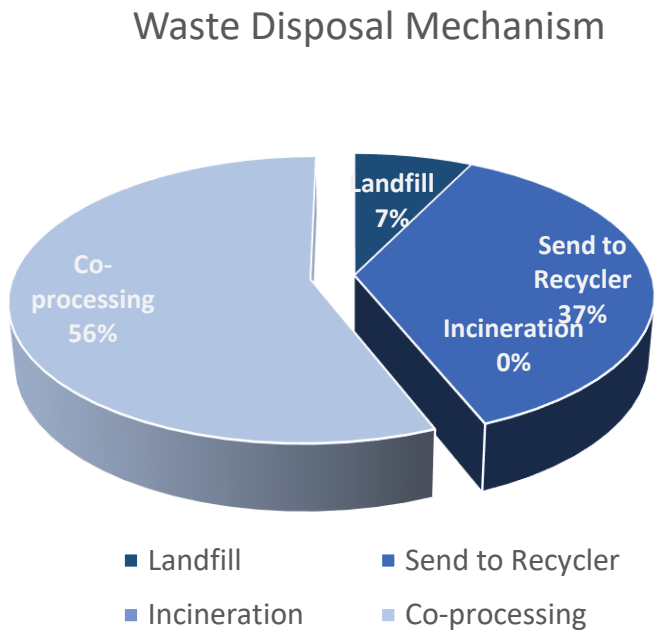
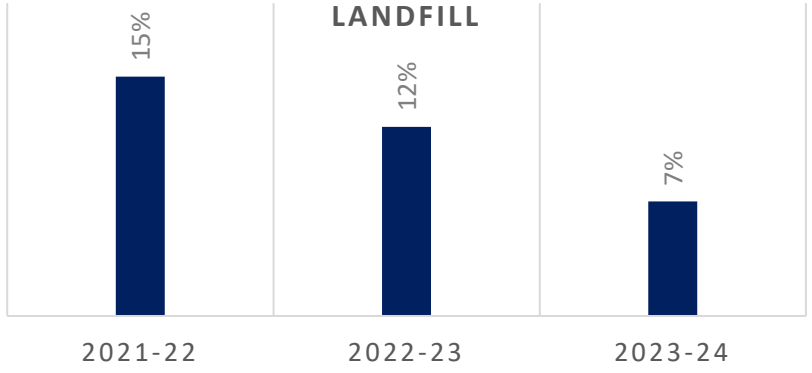
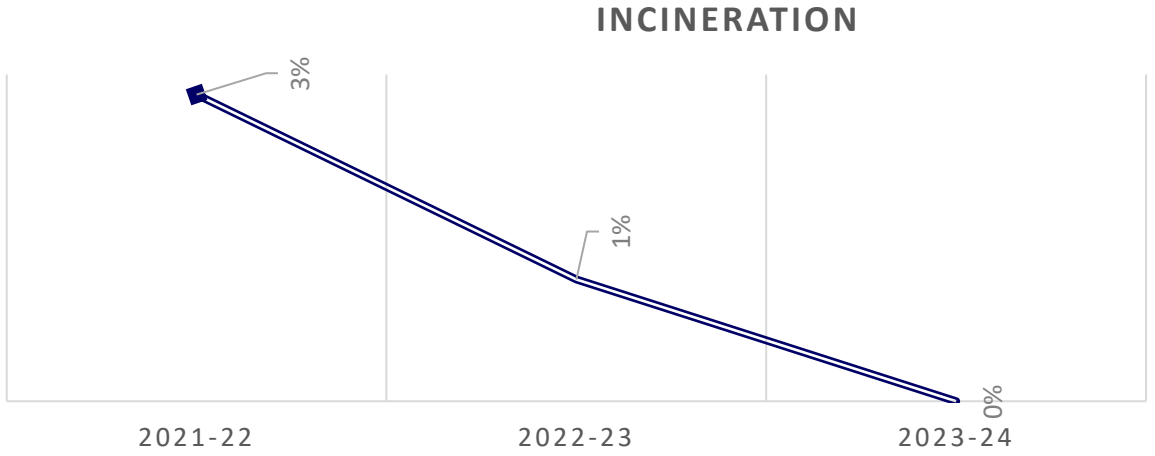
2023-24	ELECTRICAL	WIND POWER	OFFSITE	50 MW	128.73	19.37

Process Waste Utilization & Management









GREENHOUSE GAS INVENTORIZATION AND CHANGES IN LAST 3 YEARS

GHG Scope & Boundary :

Scope 1: High Speed Diesel (HSD), Natural Gas, Coal

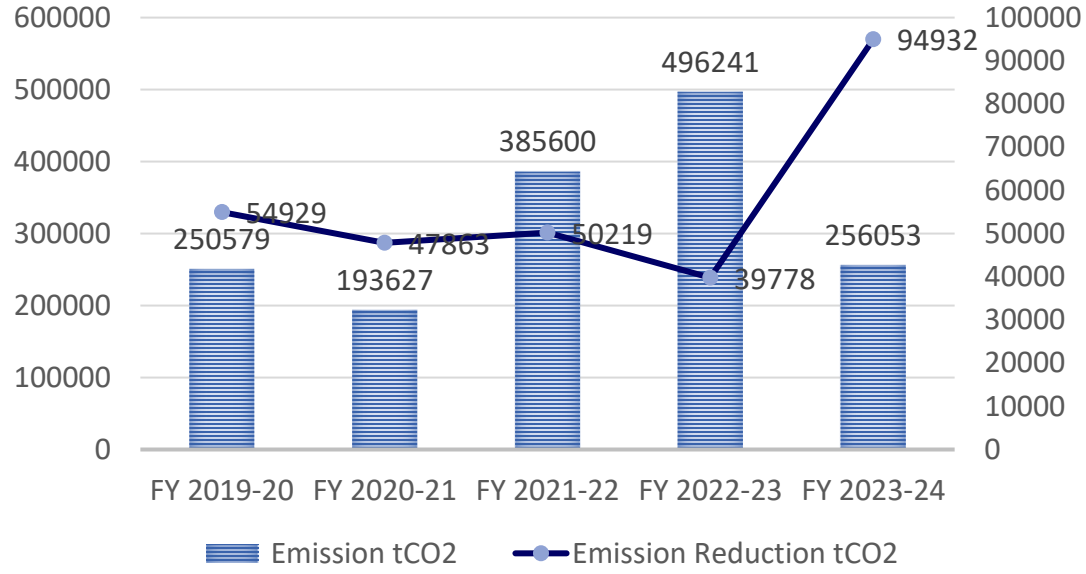
Scope 2: Purchased (Grid) Electricity, Bilateral and IEX (Non-RE)

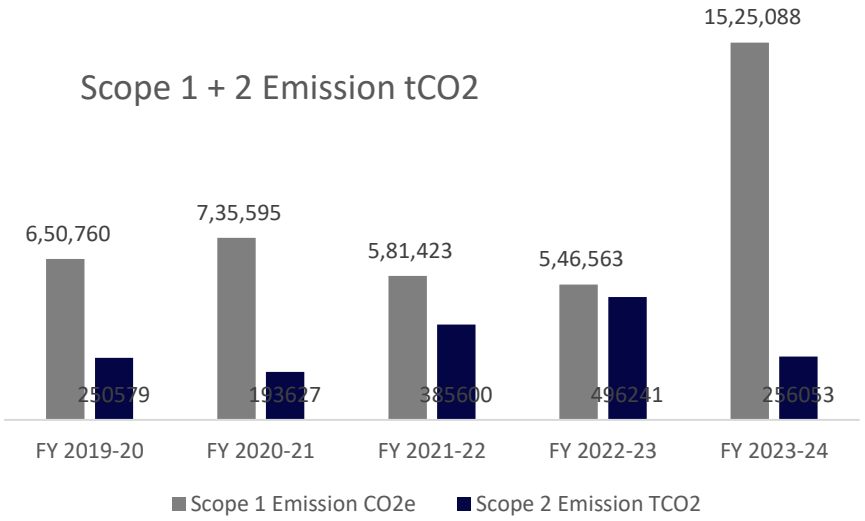
Sustainability Achievements, Goals & Targets

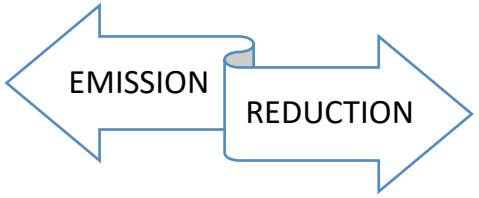
- To increase the % of Clean energy in our overall ENERGY CONSUMPTION
- 20 MW Solar-Wind Hybrid Tied Up Done
- As per roadmap of FY 23-24
- This contract reduces 5-7 % of Carbon foot print
- Enhances overall sustainability efforts

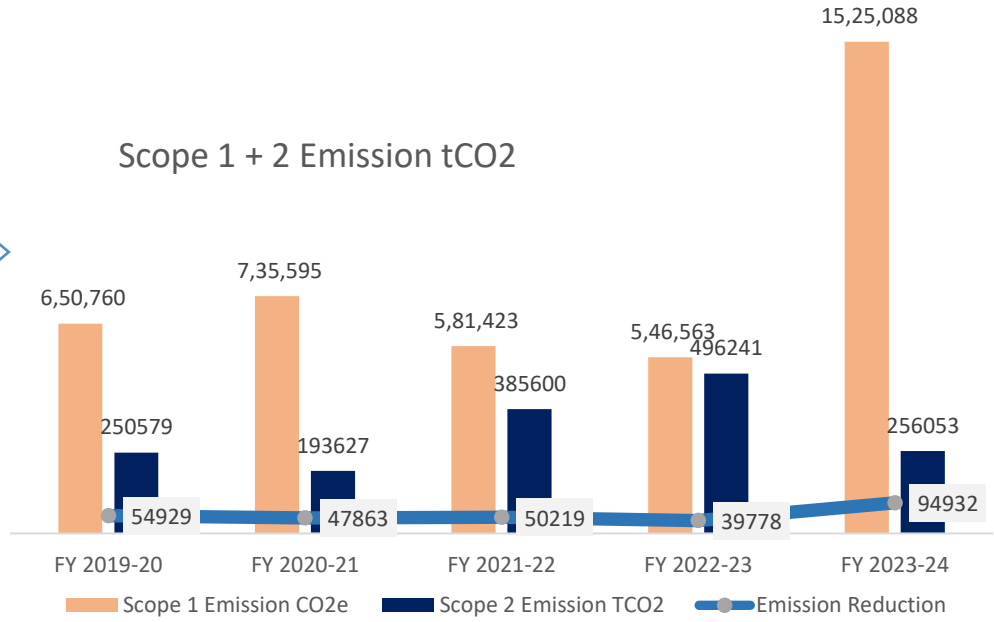
GREENHOUSE GAS INVENTORIZATION AND CHANGES IN LAST 3 YEARS

S. No.	Source of Direct energy consumed by the reporting organisation	Units (Kg/Liters /SCM)	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
1	Diesel for DG sets	tCO2 eq.	144.19	310.57	138.03	142.15	197
3	Natural Gas	tCO2 eq.	92,367.54	122,537.23	97,974.62	46,945.33	53707
4	Coal	tCO2 eq.	558,248.48	612,747.05	483,310.44	499,475.12	1471185
5	Total	tCO2 eq.	650,760.22	735,594.86	581,423.09	546,562.60	1525088





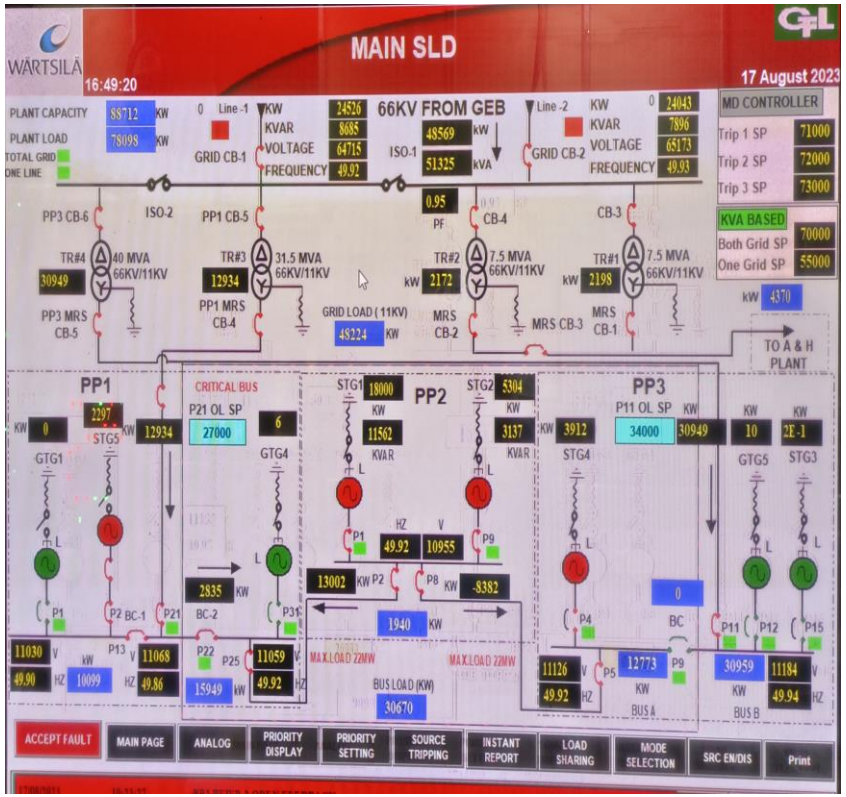




Green Supply Chain Management

- Buying major Raw Material like Sulphuric Acid & Salt from nearby location Dahej and thereby have been saving on diesel cost used in transportation
- Similarly we have been buying coal from Adani which is getting landed in nearby Dahej port thereby have been saving on diesel cost used in transportation
- We have stopped using Asbestos Cement Sheet, all our new projects are done with metal sheets
- For bulky packaging material like HM HDPE Drums we have developed nearby Dahej based sources and hence started saving on diesel cost used in transportation
- Forward Path : To monitor CO_2 emission of RMs suppliers & Transporters -Giving the priority , those having lowest norms
- Flash steam recovery, use for process 3.5 T/hr.
- Reduction in usage of hazardous RMs in Polymer

SLD for PMS



✓ ISO-50001 Energy management system certification under progress

Software & Database : GaBi Ver 10.6	Time Coverage: 2023 – 24	Geographical Coverage: Raw Materials acquisition and inbound transportation
LCA Boundary: Cradle to Gate; ISO 14040:2006; ISO 14044:2006		

Impact Category	PCF Value
GWP 100 Years [kg CO2 eq./kg of PTFE]	20.05
Scope 1 (Direct Emission)	13.99
Scope 2 (Indirect Emission)	5.36
Scope 3 (Upstream)	0.70

- ¥ ENCON Review Meeting
- ¥ Thorough utility loss survey
- ¥ Daily variance report

EMS Main page – Dahej-A

All plants are covered to view live consumption, Electrical parameters & history trends

Plants

Gujarat Fluorochemicals Limited (GFL,

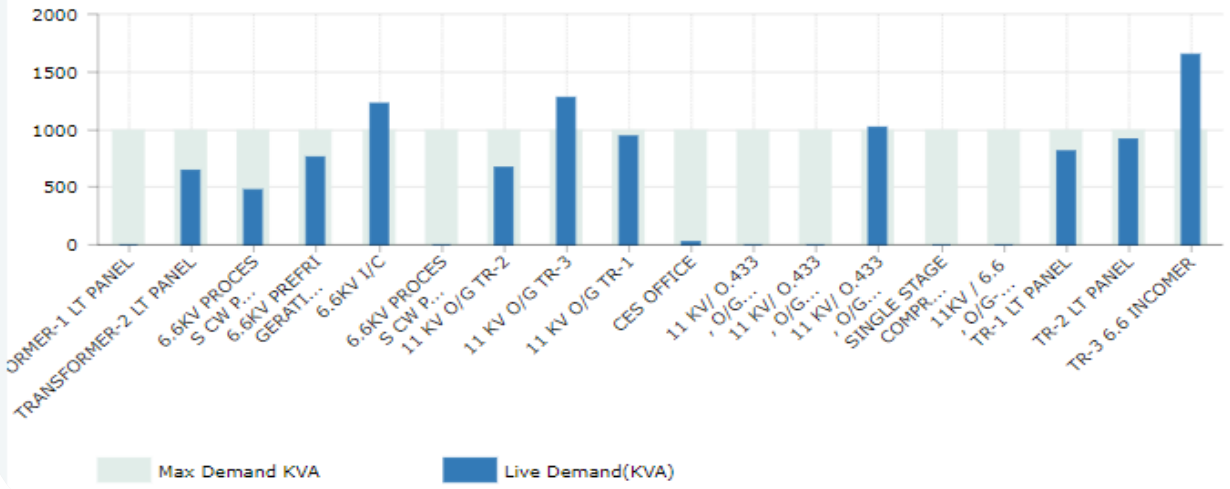
CMS S/S | CA S/S | VDF UTILITY S/S | CPP S/S | DPTFE S/S | UTILITY S/S | FI CaCl2 S/S | TFE-1 S/S | PTPTFE S/S | TFE-3 S/S | A & H S/S | TFE-2 S/S

Off

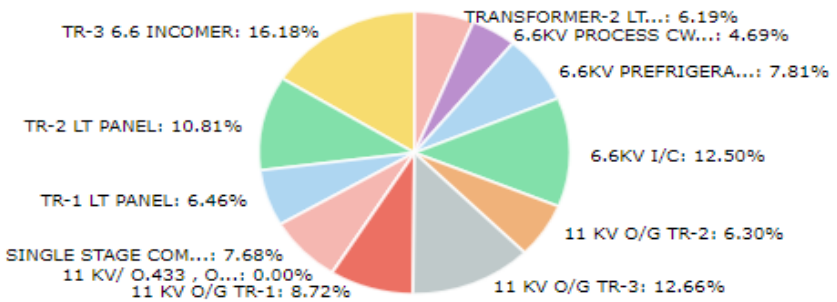
11 KV O/G TR-3				11 KV O/G TR-1				CES OFFICE				11 KV/ 0.433 , O/G- TR-1			
1086.80	1281.30	0.848		753.10	940.20	0.800		-21.90	22.10	-0.988		0.33	0.40	0.832	
KW	KVA	PF		KW	KVA	PF		KW	KVA	PF		KW	KVA	PF	
	Unit(KWH)	Rs.			Unit(KWH)	Rs.			Unit(KWH)	Rs.			Unit(KWH)	Rs.	
Today	8k	80k		Today	5k	55k		Today	0.00	0.00		Today	2.20	22.00	
Yesterday	26k	264k		Yesterday	18k	183k		Yesterday	0.00	0.00		Yesterday	6.50	65.00	

Analyze » | Summary

Max vs Actual Demand



Consumption Overview



Yesterday | This Week | Last Week | This Month | Last Month | Holiday

Net Zero Commitment

GFL Group have plan for GHG emission reduction which will be implemented in short, medium & long term.

Invested in 64 MW of wind turbine installation & Hybrid (solar + Wind) power as renewable energy set-off resulting in to 73.7 MW of renewable energy power (258863 GJ) resulting in 51485 tCO_2 emission reduction.

Plan to improve Renewable energy use up to 70% by 2030 a Step toward become a NET ZERO company in future.

Awards, Certificates & Member's

Energy Saving Certificates :
FY 2018-19 : PAT Cycle 2 : 336 ECerts
FY 2014-15 : PAT Cycle 1 : 437 ECerts

Year 2018-19
IMC RBNQA MQH Best Practice Award for **TFE Vent Gas**

Year 2019-20
IMC RBNQA MQH Best Practice Award for **Effluent Recovery System**

Year 2020-21
IMC RBNQA MQH Best Practice Award for **Condensate Polishing Unit**

Nov 2021
Par Excellence Award in the International Convention on Quality Control Circle 2021

Dec 2021
CII-15th National Water Excellence Award 2021

Aug 2022
CII-22nd National Energy Efficient Award 2022

Sep 2023
CII-24nd National Energy Efficient Award 2023

BRITISH SAFETY COUNCIL Member

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

United Nations Global Compact

Photo Gallery - Achievements

CPP Team won "PLATINUM" award at National level in QC competition at Dhaka, Bangladesh FY 2020

CPP Team won "Excellent" award at National level in QC competition at Aurangabad FY 2021

National award
"GFL as Energy Efficient Unit" from CII -FY 2022

Head Office

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Manufacturing

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INDIA

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Thank you