PPGCL
PRAYAGRAJ POWER GENERATION COMPANY LTD.

CII-25th National Award for Excellence in Energy Management Sept-2024

PRAYAGRAJ POWER GENERATION COMPANY LIMITED

(3 * 660 MW)

Team Members

Balaram Saha-Head Performance & MIS
Nipun Garg-Lead Engineer
Kunwar Hitesh-Lead Engineer
Istuti Verma-Lead Engineer

Journey begins : PPGCL Takeover

PPGCL Overview

Establishment: Originally developed by Jaiprakash Associates Limited (JAL)
Location: Bara, District Allahabad, Uttar Pradesh
Capacity: 1980 MW Thermal Power Plant with three 660 MW units

Ownership

Acquisition: Acquired by Renascent Power Ventures (RPV) on December 4, 2019, through a competitive bidding process by SBI
Current Ownership: 75.01% stake held by RPV
Parent Company: 100% subsidiary of Resurgent Power Ventures
Resurgent Power Ventures: A joint venture of Tata Power (via Tata Power International Pte. Ltd), ICICI Bank, and international investors

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PPGCL – Overall Business Value Chain

IOCL & BPCL

(ISO 9001, 14001, 45001, 27001)

Commercial Date of Operation		
Unit 1	Unit 2	Unit 3
29-02-2016	10-09-2016	26-05-2017

Coal

FSA – 6.95 MTPA NCL

Merchant – Market Coal and Shakti Scheme

3 X 660 MW

Tata Power – OMSA & PDMSA

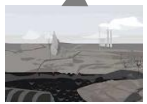
PowerMech BTG & CHP | **MBPL** AHP

S E U P P T C L

PPA UPPCL (90%) 1648 MW

Merchant 10% 183 MW

Fly Ash	Ultratech CGU
	Nearby Cement Industries , Brick
Bottom Ash	Road construction
	Abandoned Mines



275 Workforce

Community 5 Villages

Lenders & Investors

Yamuna River

Regulatory & Governing Bodies
Central Electricity Authority
Uttar Pradesh Electricity Regulatory Commission
Ministry of Power
Ministry of Coal
Ministry of Environment & Forests
Central Pollution Control Board
Uttar Pradesh State Pollution Control Board
Govt Of Uttar Pradesh
UP State Load Despatch Centre
Northern Region Load Dispatch Centre
Indian Railways

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PPGCL PERFORMANCE FY23-24

Annual Generation
12699 MU

Auxilary Power
5.71%

Gross Heat Rate
2218 Kcal/Kwh

SOC
0.16 ml/Kwh

Boiler Efficiency
86.25%

Plant Availability
90.26%

Plant Load Factor
73.08 %

DM Water Consumption
0.70 %

Raw water consumption
2.04 m3/MW

Turbine Heat rate
1865 Kcal/Kwh

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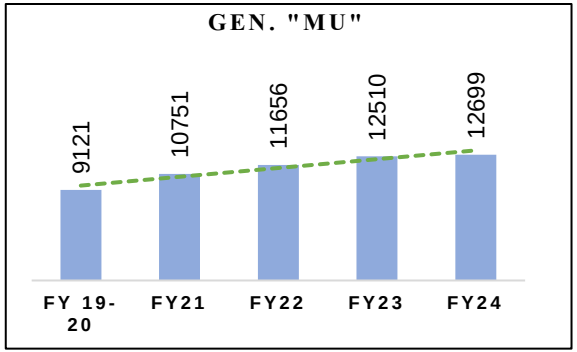
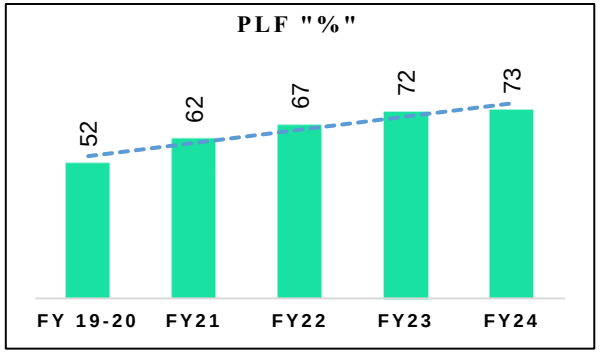
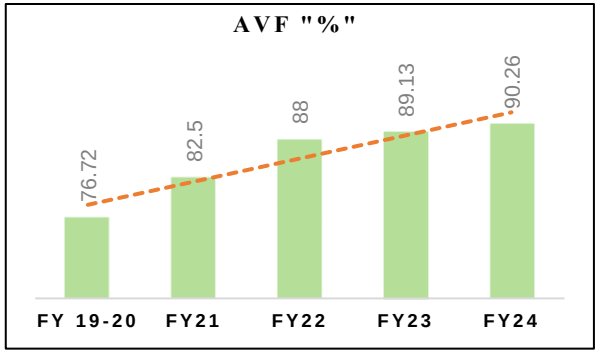
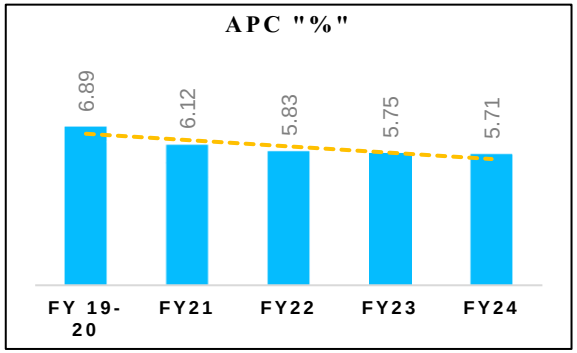
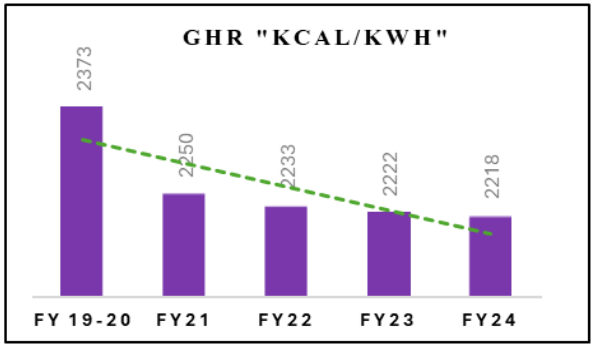
PERFORMANCE TREND (LAST 5 YEARS)..

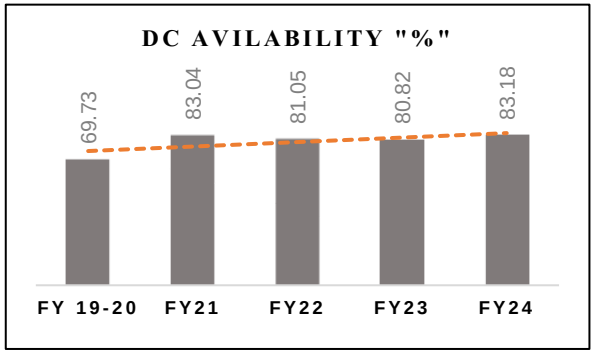












- ✓ PPGCL become MOD -1 , from MOD -4 under UP IPP plants , The PLF are continually Improving.
- ✓ There is continuous improvement in APC & Gross Heat rate Y-O-Y , PPGCL achieved lowest Gross Heat of 2218 in FY 24.
- ✓ PPGCL availability improved to 91% due to reduction of Forced outage mainly BTL.

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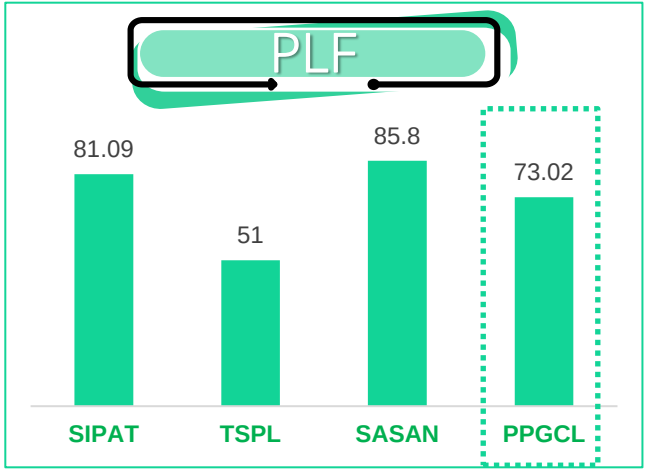
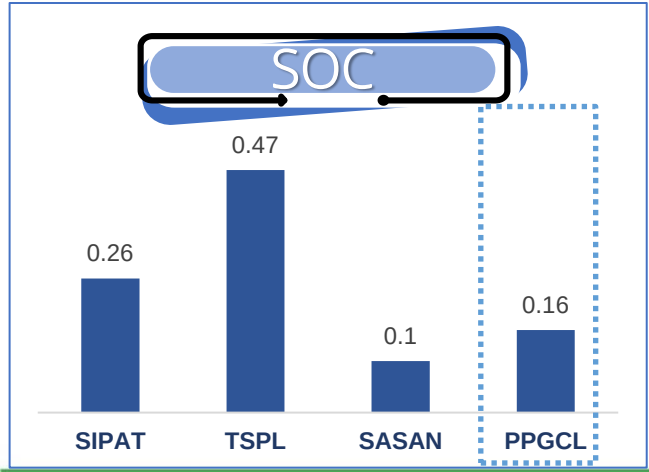
ENERGY BENCHMARKING





Benchmarking Performance

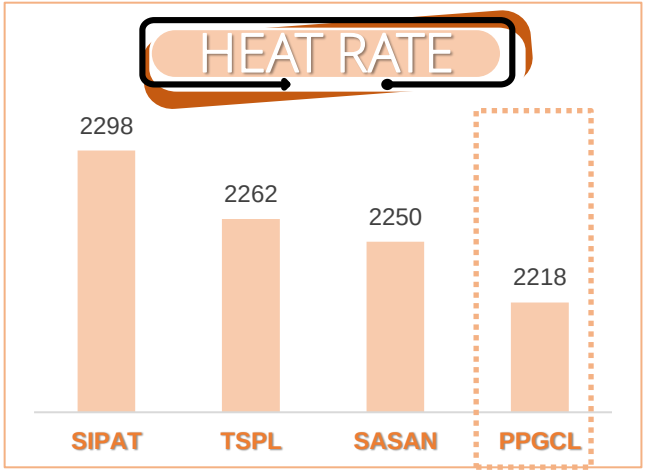
- PPGCL is the 1st Thermal stressed ,which is turn around within 1.5 Years of Take over. This has achieved through performance benchmark among peers .

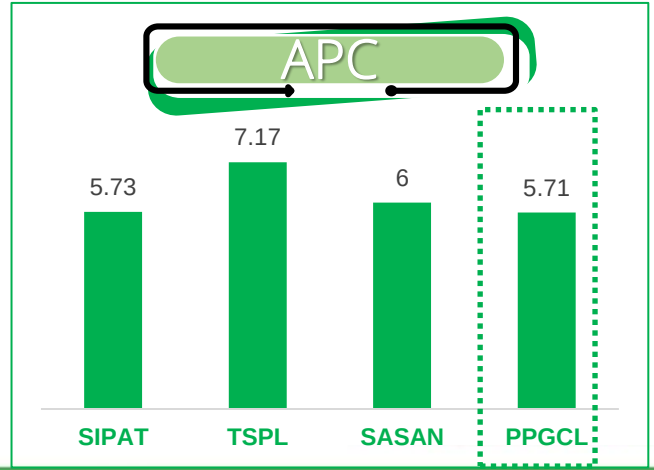
Our Short Term Plan:

- Improvement of reliability & efficiency through Digitalization & AI based project .
- Real Time Energy Monitoring and immediate action .
- Implementation of ENCON Projects.
- Capability Development of New Engineer.

Our Long Term Plan:

- Implementation of Capex project for energy efficiency Improvement .
- Flexi Ready – Flexible Operation Readiness
- Capital Overhaul of unit for major Heat rate Gain .
- Implementation of Digital Twin with TCS-Adex .





Steps for Energy Efficiency Benchmarking :

STEP 01

HR/APC GAP ANALYSIS

1. Analysis of HR and APC gaps w.r.t. Design.

STEP 02

Plan to Mitigate the gaps

1. Parameters improvement by operational practice
2. Modified SOP as per requirement
3. Major Deviation in the measurement is corrected

STEP 03

Maintenance and AOH activities

1. Change of various valves with new modified valves
2. Adoption of ORI , OPI of OOI

STEP 04

Time bound improvement project for action points implementation

1. Sankalp Project
2. FMEA
3. SPS

STEP 05

Sustenance of performance

1. Daily Tracking of Performance parameters
2. Daily Discussion in CCR for further improvement
3. Time motion study and implementation of maintenance practices

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Major Encon Projects Planned for FY 24-25

LED fittings at all major plant areas

Benefit: APC Improvement, Better illumination, Less Maintenance (0.391 Million KWH)

₹ 0.9775 Million/Yr

₹ 64.20 Million/Yr

Annual overhauling of Boiler, Duct, FAN System, APH & High drain valve of BTG.

Benefit: HR & APC Improvement (~ 60829.5 M Kcal/annum)

Implementation of VFD in CEP

Benefit: Saving in APC of 2.928 KWH

₹ 7.32 Million/Yr

₹ 1.31 Million/Yr

Implementation of Rooftop solar in colony

Benefit: Saving in APC of ~0.525 MU/Year

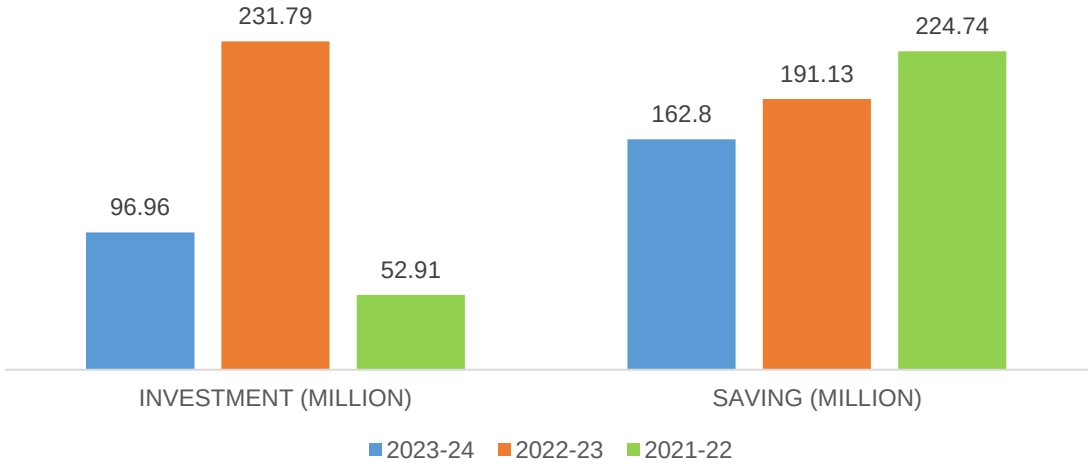
Optimization of CW running hours ACW Inter Connection

Benefit: Estimated Energy Saving ~37.96 MU/Year

₹ 94.9 Million/Yr

ENCON Projects Summary (Last 3 years):

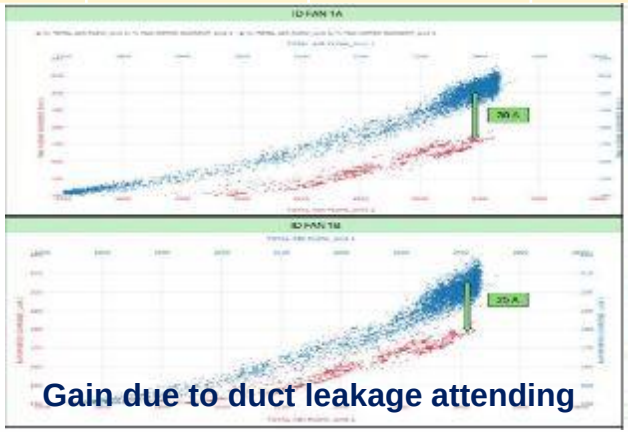
Year	No. of Energy Saving Projects	Investments (INR Million)	Electrical Saving (Million kWh)	Saving (INR Million)
2023-24	7	96.96	63.80	162.81
2022-23	5	231.79	10.78	191.13
2021-22	5	52.92	0.79	224.75



ENCON Project Details.. FY 23-24

S.No.	Title of the Project	Investment (in Million)	Electrical Savings (Million KWH)	Thermal Savings (Million Kcal)	Annual Savings (Rs. In millions)	Payback Period (Months)
1	U#2 TDBFP R/C Valve passing attending	6	7.88	17490	20.11	3.58
2	Stopping of 1CW pump for 16 Days across all three units	0	1.68	0	4.28	0
3	Implementation of Energy management system for Proper monitoring of APC Consumption of Major Drives and areas like CHP, AHP, DM plant etc.	0	0.3	0	0.7657	0
4	LED fittings inside plant area	0.3638	0.39	0	0.999	4.37

Condenser tube cleaning



Gain due to duct leakage attending

RH Bent Replacement

ENCON Project Details.. FY 23-24

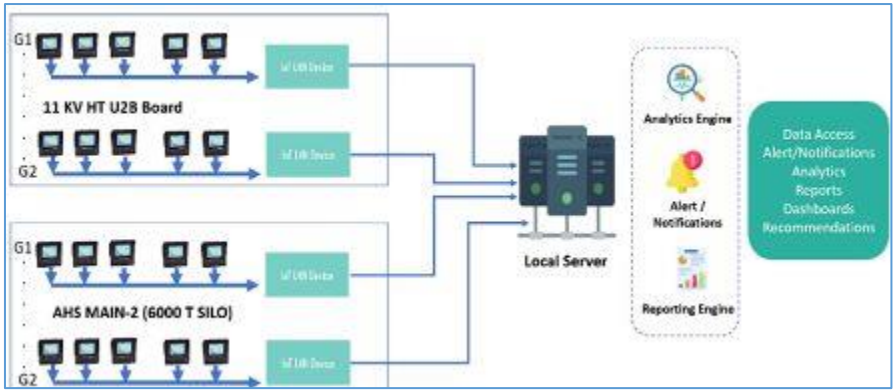
S.No.	Title of the Project	Investment (in Million)	Electrical Savings (Million KWH)	Thermal Savings (Million Kcal)	Annual Savings (Rs. In millions)	Payback Period (Months)
5	Heat Rate improvement after U#3 AOH	66.2	29.06	0	74.162	10.71
6	DM makeup improvement	4.4	23.56	0	60.11	0.88
7	Improvement in APC due to U#2 Short shutdown	20	4.26	0	10.65	22.53

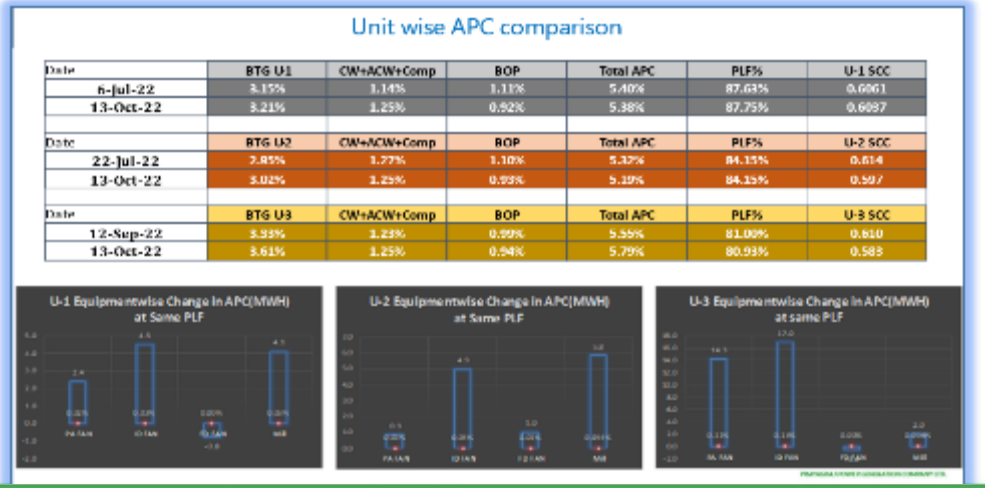
Figure 33 - PA FAN Overhauling

Innovation Project-1

Implementation of ENMS system for APC tracking:

- PPGCL team jointly with Tata Power Trading Co. Ltd. has developed Smart Energy Management System. This IoT application of energy management system helped to track individual equipment level energy consumption on Real-Time basis & gives the operator a Dashboard with comparison of energy consumption data among other unit & equipment's.
- It connects a total of 314 energy meters with 32 IoT gateways. The system monitors 34 parameters and creates energy management analytics to improve APC management
- This has helped the Engineers to optimize the equipment running , take overhauling decisions by seeing specific energy consumption of individual equipment

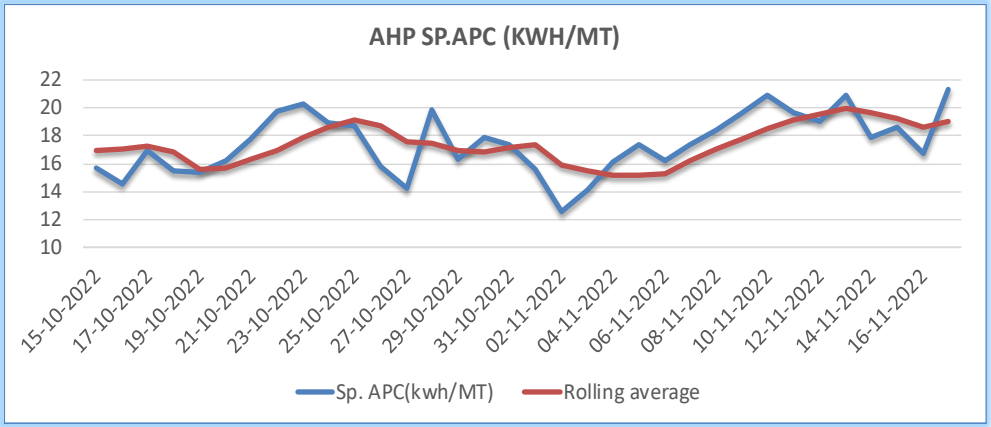


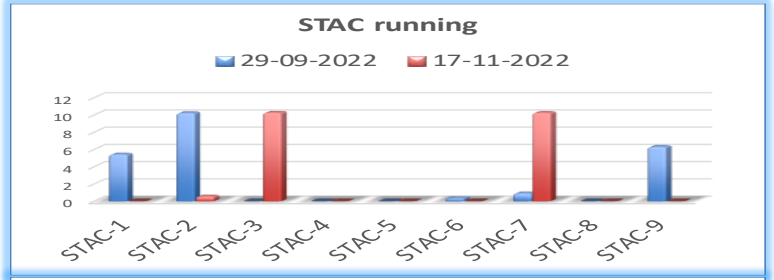


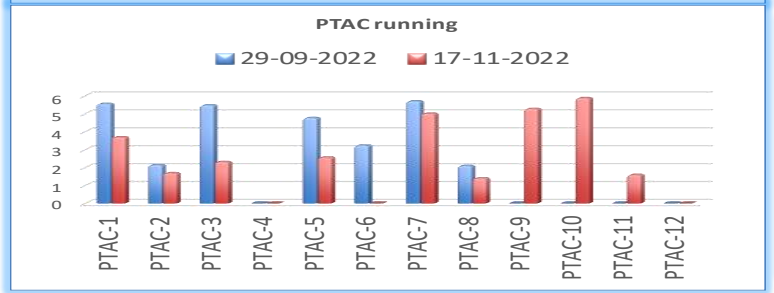
Date	BTG U1	CW+ACW+Comp	BOP	Total APC	PLF%	U-1 SCC
6-Jul-22	3.35%	1.14%	1.11%	5.40%	87.63%	0.6061
13-Oct-22	3.21%	1.25%	0.92%	5.38%	87.75%	0.6087
Date	BTG U2	CW+ACW+Comp	BOP	Total APC	PLF%	U-2 SCC
22-Jul-22	3.85%	1.77%	1.10%	5.32%	84.15%	0.614
13-Oct-22	3.02%	1.25%	0.93%	5.19%	84.15%	0.597
Date	BTG U3	CW+ACW+Comp	BOP	Total APC	PLF%	U-3 SCC
12-Sep-22	3.33%	1.23%	0.99%	5.55%	81.00%	0.610
13-Oct-22	3.61%	1.25%	0.94%	5.79%	80.93%	0.588

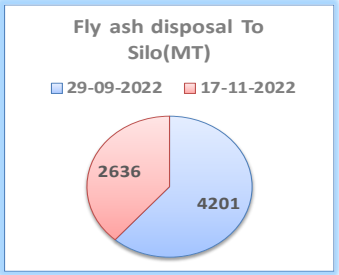
AHP APC Dashboard:

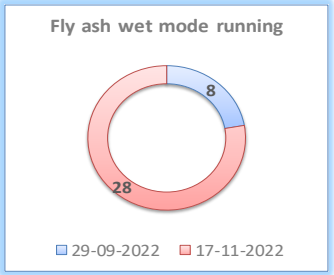
AHP (APC)				
Equipment	UOM	Consumption 29-09-2022	Consumption 17-11-2022	Difference
50K Ton Silo	MWh	14.97	9.23	-5.73
Total AHP BAHP APC	MWh	6.78	6.19	-0.59
Total AHP HT Panel PMCC APC	MWh	47.75	56.36	8.61
Total AHP PTAC APC	MWh	29.01	29.47	0.46
Total AHP STAC APC	MWh	23.26	21.10	-2.16
Total	MWh	121.77	122.35	0.58

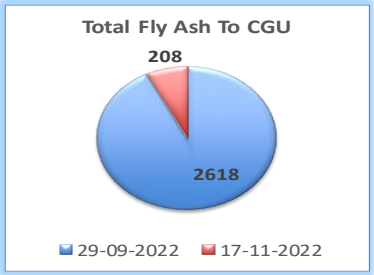


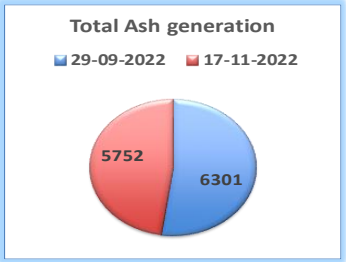


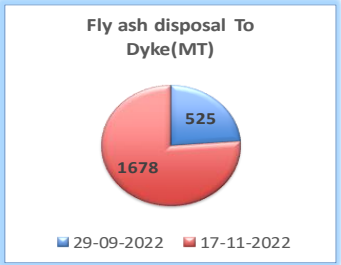


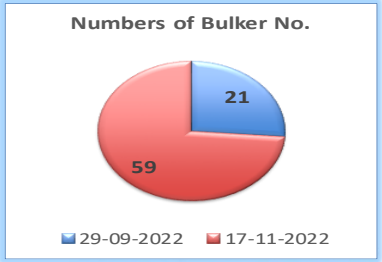






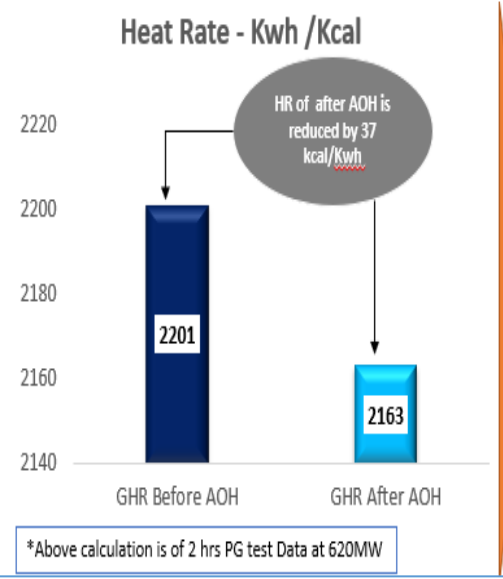






Innovation Project-2 (Improvement in Overhauling)

		Load	620MW		
		Design	Before	After	Gain
THR calculation	Kcal/kwh	1849.57	1880.82	1865.75	-15.07
Boiler efficency	%	87.56	85.47	86.25	0.78
GHR	Kcal/kwh	2112	2201	2163	-37.37



*Above calculation is of 2 hrs PG test Data at 620MW

Initiatives	Savings
U-1 SOFA/Tilt/SADC mechanism checking/rectification - HRH temperature improvement	2.5 kcal/kwh
U-1 HPBP passing arresting	8 kcal/kwh saved
U-1 TDBFP A R/C valve passing	3 kcal/kwh.
U-1 LPBP 2 passing to be arrest	4 kcal/kwh
U-1 Reduction in Spray	1 kcal/kwh
U-1 Reduction in DFG loss	10 kcal/kwh
U-1 Attending High energy Drain valve passing	4 kcal/kwh

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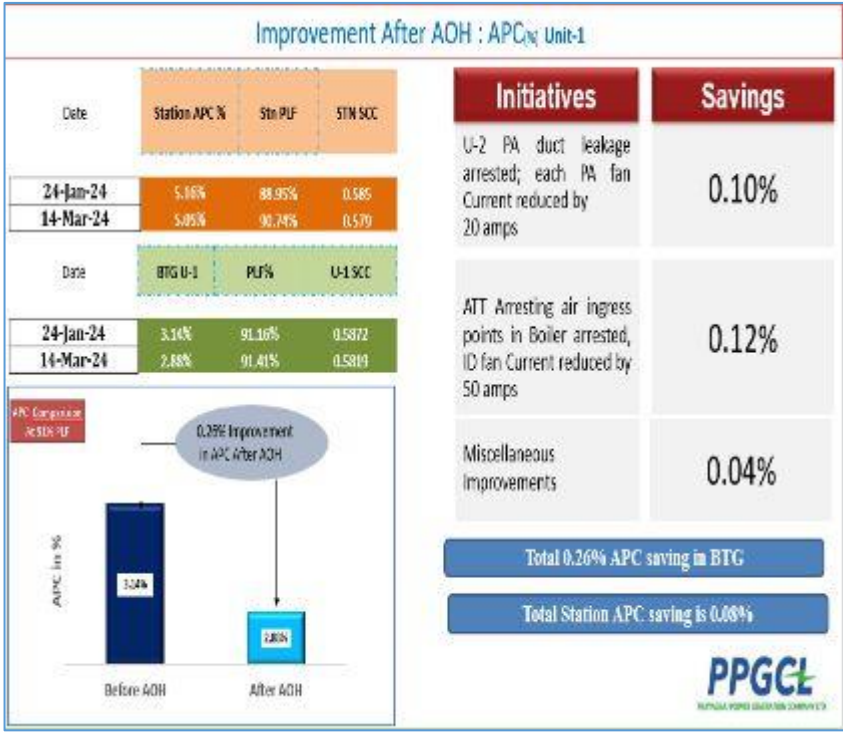

Initiatives	Savings
U-2 PA duct leakage arrested; each PA fan Current reduced by 20 amps	0.10%
ATT Arresting air ingress points in Boiler arrested, ID fan Current reduced by 50 amps	0.12%
Miscellaneous Improvements	0.04%

Total 0.26% APC saving in BTG

Total Station APC saving is 0.08%

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Post U1 AOH improvement in Net Heat Rate = 42 Kcal/Kwh
Total Coal saved = 45,843 Tones
Total Co2 emission saved = 1,10,942 Tones

CO_2

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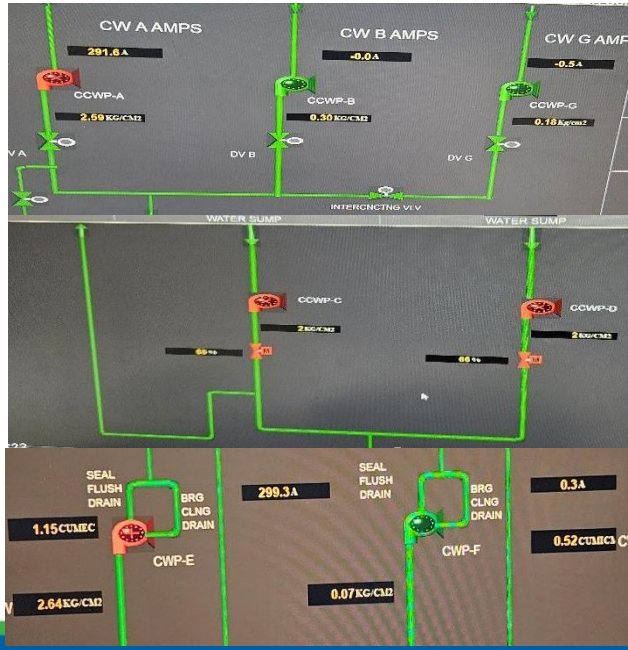
Innovation: Project-3 (Reduction of Make Up & APC)

1. U#2 stem plug & seat RC valve replaced by CCI make.
2. High energy drain angular valves replaced by ball valves.
3. Optimized running of CW pump from 5 pumps to 4 pumps to reduce Auxiliary power consumption.

TDBFP R/C valve overhauling and upgradation

High Energy Drain valves upgradation by ball valves

4 CW pumps being used in place of 5.

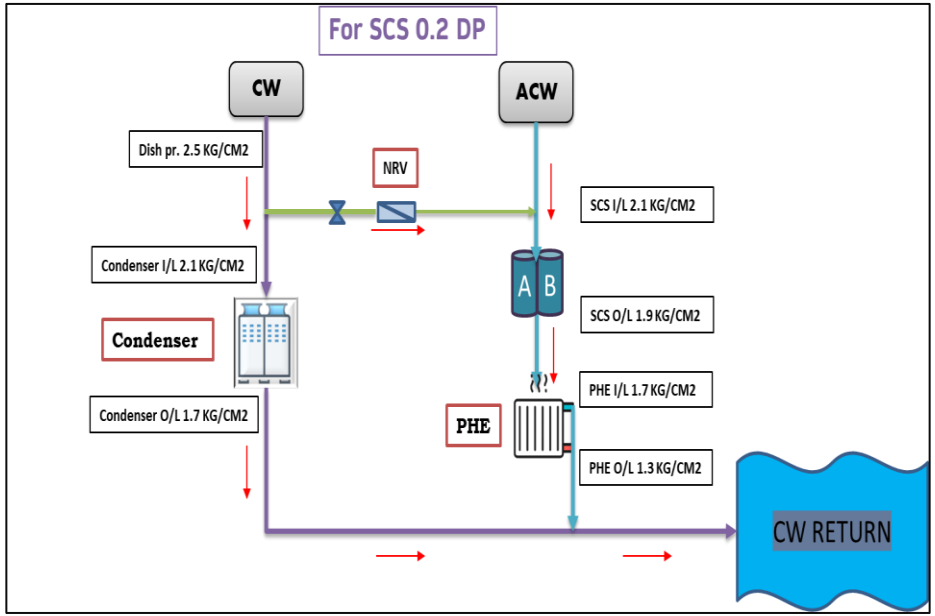


Pilot Technologies – CW & ACW Interconnection

For ACW water for TG/SG PHE tapping will be taken from condenser cooling water I/L line one MOV one NRV will be installed .

Benefit-

For All three No units in summer there is 01 no's ACW is running if the least pump also tripped by some reason units reliability increase. As CW to ACW interconnecting valve open in auto.



POWER SAVING (in winters All 04 ACW stop condition)			
	UNITS(KWH)	MWH	SAVING IN RUPEES
PER DAY	26640	26.640	1,81152 /-
PER MONTH	810921	810.920	55,14266 /-
For Half year	9730260	9730.260	3.31 Cr

POWER SAVING (in summers one ACW Running condition)			
	UNITS(KWH)	MWH	SAVING IN RUPEES
PER DAY	26640	26.640	90576 /-
PER MONTH	810921	810.920	27,57133 /-
For Half year	9730260	9730.260	1.65 Cr

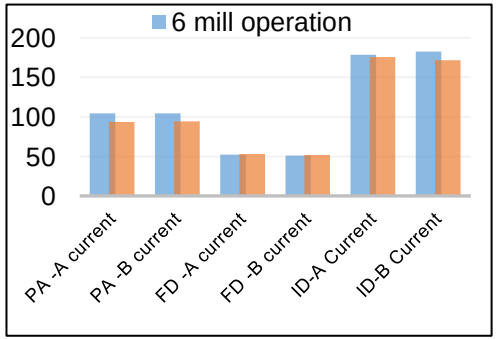
Total yearly savings= 4.96 Cr

PPGCL Improvement Convention

Implemented Intervention

APC Optimization

- ✓ Five mill operation
- ✓ Startup with TDBFP.
- ✓ Single CEP operation at minimum load
- ✓ O2 optimization



Saving of ₹ 66 Million/Year

Startup Oil optimization

- ✓ HPH charged before synchronization
- ✓ Mill introduced at 40 kg/cm2 MS pressure ,
- ✓ Oil gun replaced by16J in place of 24J.

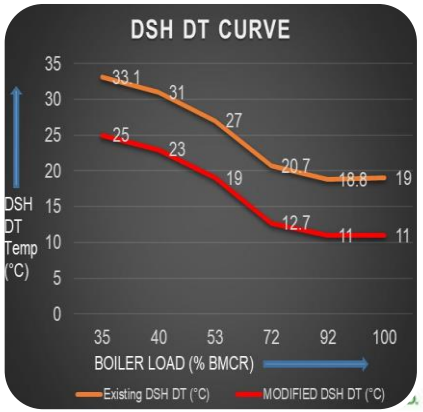
Relativity Improvement-

BTL reduction

- ✓ Extra shield plate provided in damaged porn area
- ✓ Extra SH MTM for complete evaporation monitoring during startup.

Inhouse autoloop commissioning

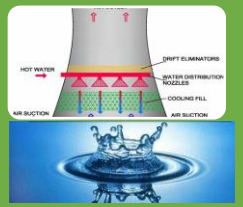
- ✓ DSH DT Curve modified to control Super Heater spray.
- ✓ Modified Sliding pressure curve incorporated in CMC to achieve fast ramp up.



Performance and Evaluation Test Schedule

✓ Turbine efficiency evaluation test	✓ Monthly
✓ Turbine Heat Rate Evaluation test	✓ Monthly
✓ Turbine pressure and temperature Survey	✓ Monthly
✓ Feedwater Heater performance test	✓ Monthly

✓ Boiler performance at high load and low load	✓ Monthly
✓ LOI /combustible	✓ Monthly
✓ Boiler Heat gain in coils and MTM Profile study	✓ Twice in Month
✓ Air preheater efficiency	✓ Monthly
✓ Fineness of coal through isokinetic sampling	✓ Monthly



✓ Cooling Tower performance evaluation	✓ Monthly
✓ Condenser Performance evaluation	✓ Monthly
✓ DM water loss Mapping	✓ Twice in Month
✓ High energy valve passing checking	✓ Monthly

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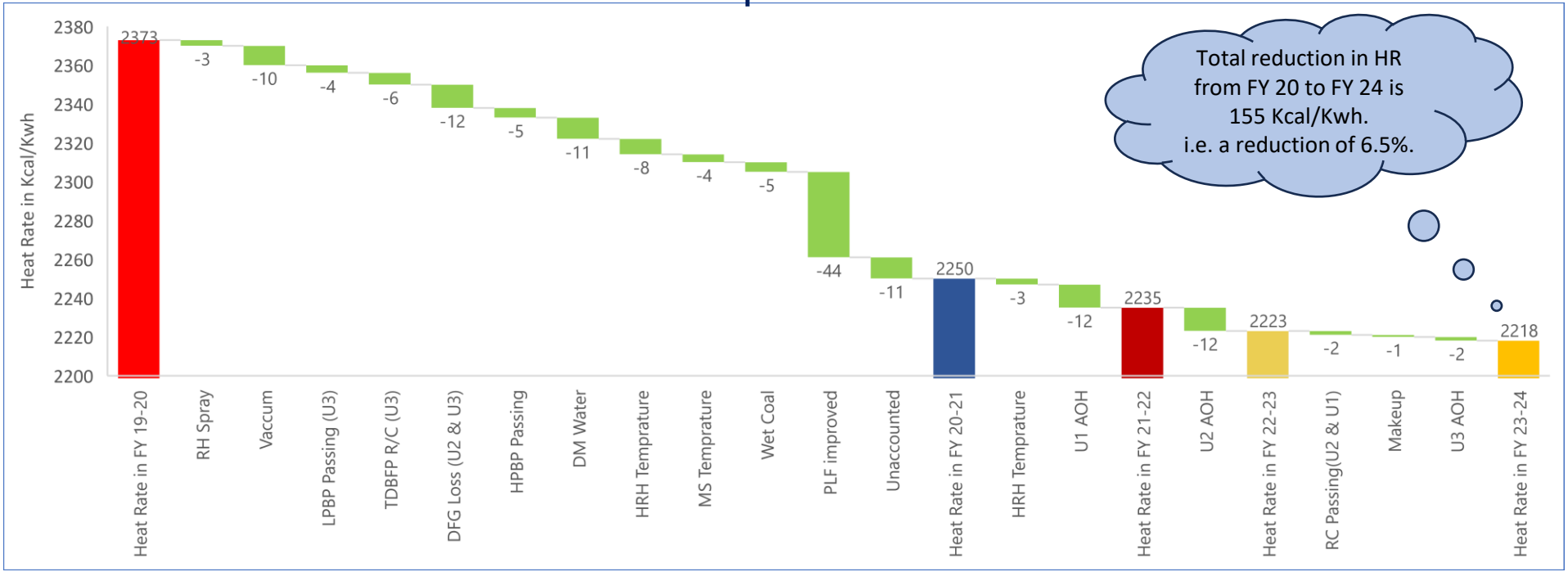
Heat Rate Improvement Y-O-Y

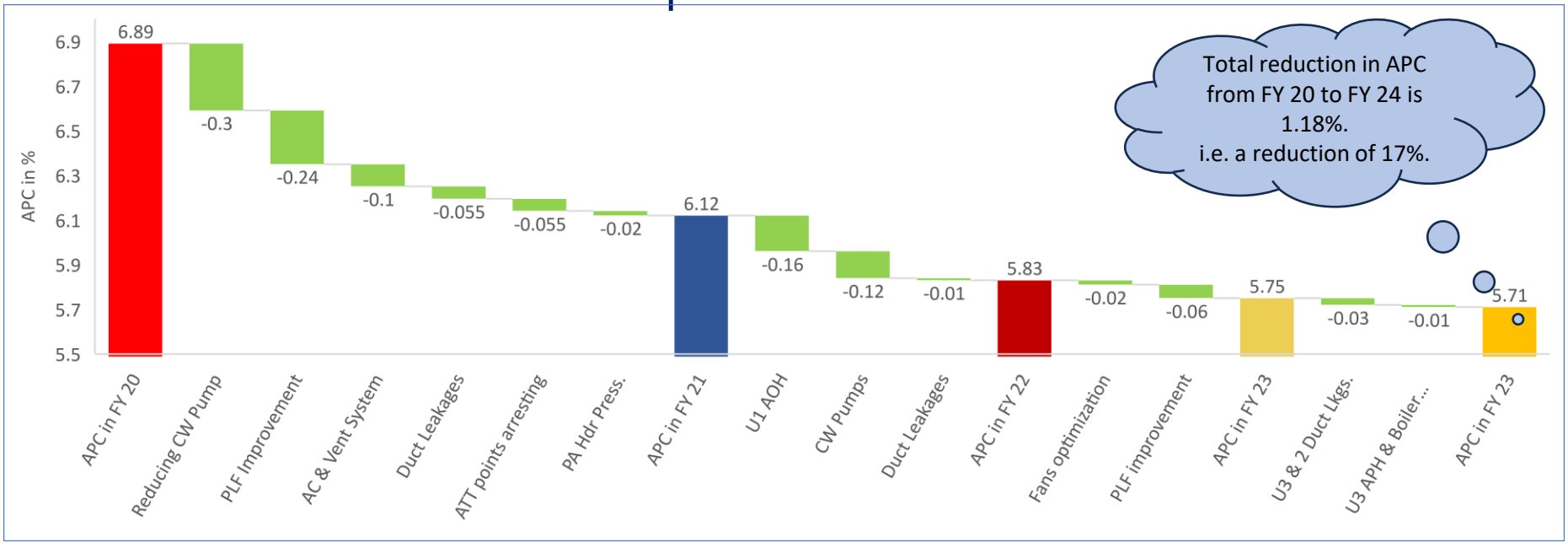


Total Savings on account of Heat Rate is 180 Cr +

Saving in Coal consumption : 4,55,986 MT

Reduction in CO_2 emission: 11,03,486 Tons

APC Improvement Y-O-Y



** Under PAT Cycle IV , M&V Audit PPGCL has recommended for 23000 + Ecerts

Total Savings on account of Heat Rate is 30 Cr +

Saving in Coal consumption : 79,265 MT

Reduction in CO_2 emission: 1,91,821 Tons

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PRAYAGRAJ POWER GENERATION COMPANY LTD.

Renewable Energy

Year	Source (Solar, wind, etc.,)	Installed capacity (in KW)	Capacity addition (MW) after FY 2021	Total Generation (million kWh)
FY 2023-24	Solar	204	-	0.234

- **PPGCL Green Initiatives:**
  - Roof top solar of 204 KW has been installed on the roof of school building.
  - Also, we have installed 50 Nos of solar streetlights in surrounding community of capacity 20 W.
  - The ECO park is equipped with solar lights. 15 solar lights of 20 W and 24 solar garden lights of 7W installed in township

❖ **Our Long-Term Plan:**

- In future all the rooftops of office area and open area will be covered with solar panels with a capacity of around 3MW.

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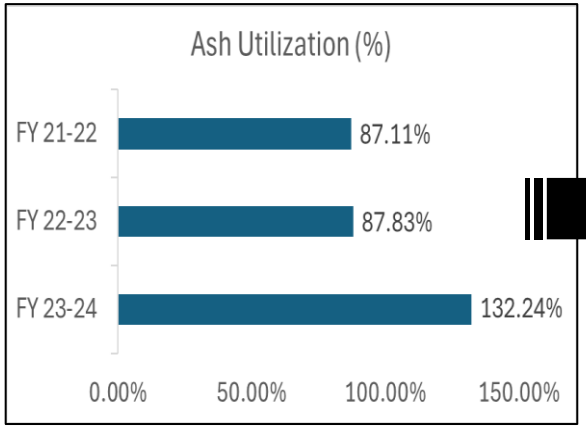
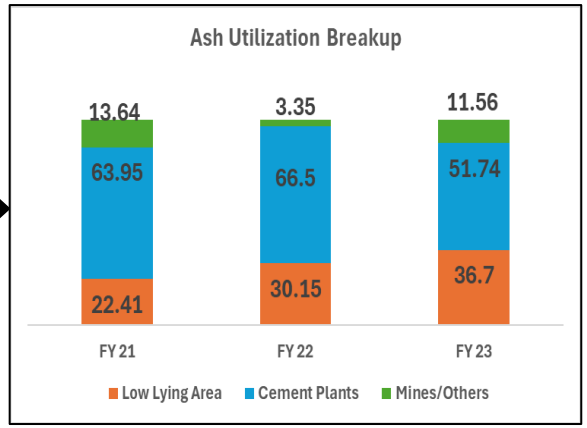
Environment Management: Ash Utilization

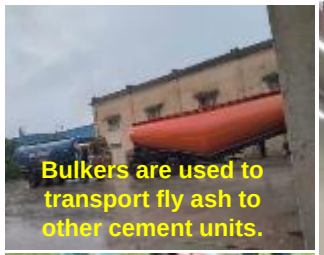




	UOM	FY 21	FY 23	FY 24
Ash Stock in Plant (Yard + Pond)	LMT	22.7	11.7	4.7
Ash Generated	LMT	20.0	24.2	26.1
Ash Utilization	%	87.1	87.8	132.4

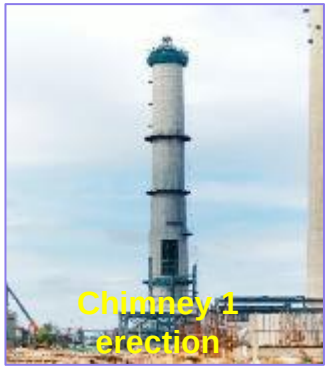
Best Practices in Ash Utilization

- We have a tie up with Ultratech CGU for supplying fly ash for cement production.
- We also supply fly ash to other cement units with bulkers. Previous FY we utilized 51.74% of total ash generated in cement units.
- We have tied up with Zaak Technologies to convert ash into cement.
- Fly ash bricks are being used for construction activities.
- Bottom Ash is being utilized in low lying land filling and mines filling.



Environment Management: Emissions

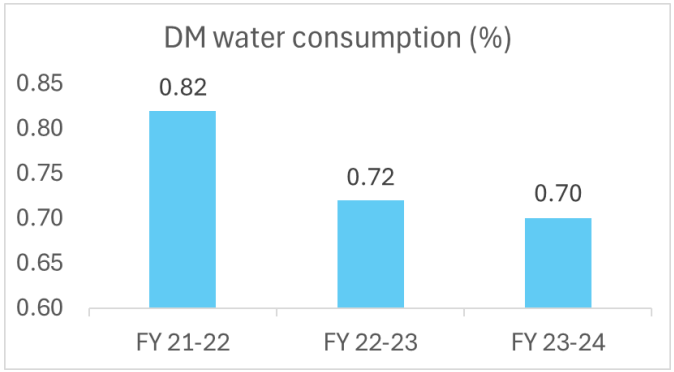
Retrofitting of FGD System

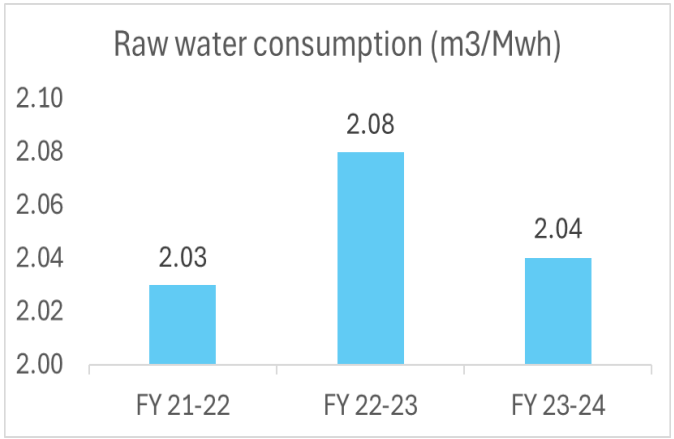


Public Disclosure :

1. GHG data is submitted to Central Electrical Authority (CEA) **(Scope-1).**
2. The data is displayed in front of plant gate and on company website for public interest.

Environment Management: Water





Site visit to learn about other best practices.

TG and boiler side drain Passing Attended

Cooling water COC optimization

Recycling of reservoir seepage water

Installation of flow meters to track area wise water usage.

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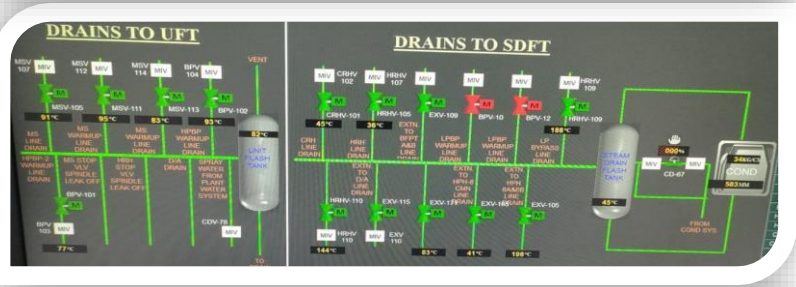
Best Practices : Digitization

Digitization

- **OSI Soft PI**
  Historian & Real Time Monitoring system
- Real Time DCS dashboard
- **DSM Software (In House)**
  Real Time Export, Sch, ACP & Deviation Monitoring
- **ENMS System**
  Energy Management System for HT Drives Cons tracking
- **Online High Energy Drain Temp & Coal Pipe temp Monitoring**



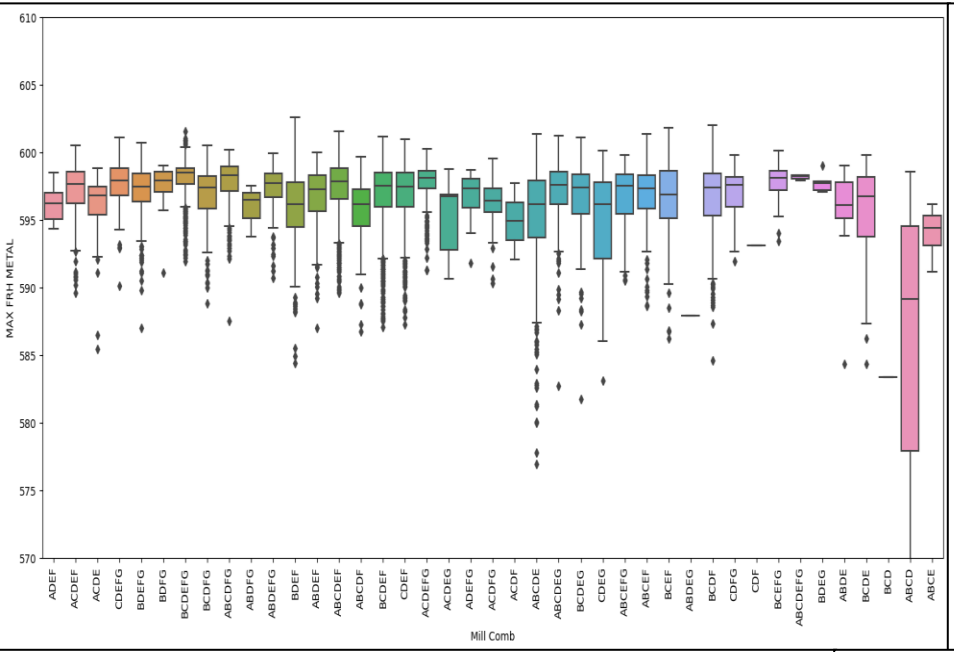
PRAYAGRAJ POWER GENERATION COMPANY LIMITED

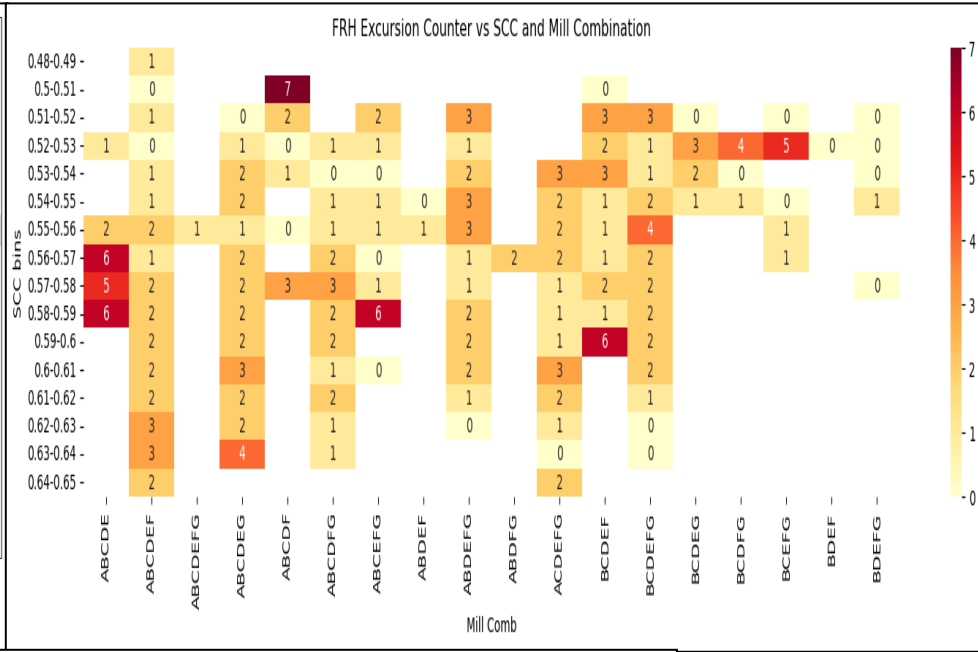
ONLINE CONDENSER PERFORMANCE FOR 3X660 MW

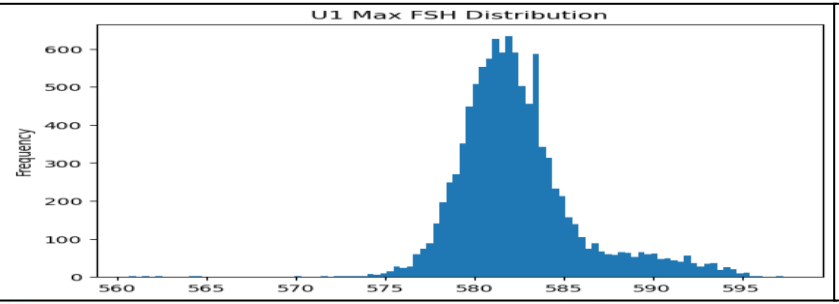
Date 02-Nov-23 15:18:56

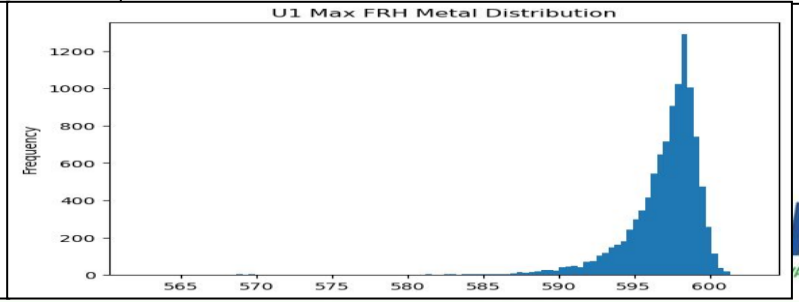
Sl.No.	PARAMETER	UOM	DESIGN	U#1		U#2		U#3	
				PASS-A	PASS-B	PASS-A	PASS-B	PASS-A	PASS-B
1	Load	MW	660.00	607.06		599.67		554.61	
2	Condenser back pressure	bar	0.1095	0.0925		0.0873		0.0992	
3	Optimum back pressure	mbar	302.46	267.68		263.00		235.43	
4	Corresponding Saturation Steam Temperature	°C	47.59	44.30		43.17		45.65	
5	CW inlet Temperature	°C	33.00	29.74	29.74	29.71	29.88	30.02	29.78
6	CW outlet Temperature	°C	42.28	40.91	40.04	40.42	40.35	40.32	40.28
7	Optimum CW rise	°C	9.28	9.28	9.28	9.28	9.28	9.28	9.28
8	Actual CW Rise	°C	9.28	11.16	10.29	10.71	10.47	10.29	10.50
9	Optimum TTD	°C	5.31	5.31	5.31	5.31	5.31	5.31	5.31
10	Actual TTD	°C	5.31	3.39	4.26	2.75	2.82	5.34	5.37
11	Maximum possible cooling water temp rise = (Tsat.- Tcwi)	°C	14.59	14.55	14.55	13.46	13.29	15.63	15.87
12	Condensor effectiveness = (Tcwo-Tcwi)/ (Tsat.- Tcwi)	%	63.59	76.69	70.73	79.57	78.79	65.86	66.16

Digital Intervention for Metal Temperature Excursion control









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PRAYAGRAJ POWER GENERATION COMPANY LTD.

Best Practices : New Technology Initiatives

Implementation of Uptime AI for predictive reliability & performance monitoring :

New Technology

Real time heat rate and performance monitoring

Monitoring of heat rate & other major equipment performance based on real time dashboards to take smart and data-based decisions.

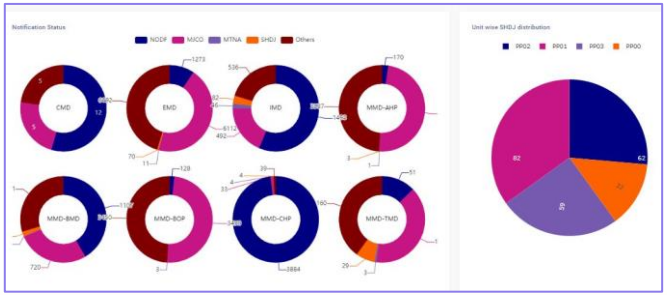
Reliability Monitoring through alerts

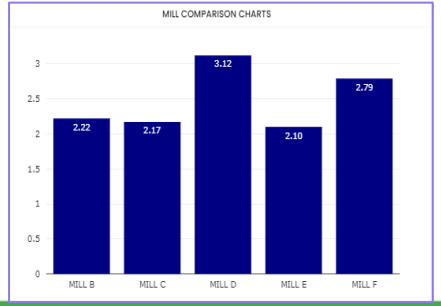
Reliability of major equipment and their health monitoring through alerts and various models.

AI Integration with SAP

Integration of reliability model with SAP for both alert and defect tracking . Also, many maintenance dashboards being used to identify area of focus.

SL. NO.	ALERT ID	DATE	STATE	STATUS	SEVERITY
1.	PPGCLP-U3-20240807-30QO DMCW PMP B • Unit 3 • Prayagraj	Aug 7, 2024	Active	Unacknowleged	Low
2.	PPGCLP-U1-20240807-YBD3 MILL D • Unit 1 • Prayagraj	Aug 7, 2024	Active	Unacknowleged	Low
3.	PPGCLP-U1-20240806-GCST BOILER FUEL & FIRING SYSTEM • Unit 1 • Prayagraj	Aug 7, 2024	Active	Unacknowleged	High
4.	PPGCLP-U3-20240806-OMNN FD Fan B • Unit 3 • Prayagraj	Aug 6, 2024	Active	Unacknowleged	Low
5.	PPGCLP-U1-20240806-THGF DMCW PMP A • Unit 1 • Prayagraj	Aug 6, 2024	Active	Unacknowleged	Low
6.	PPGCLP-U1-20240805-0CPI CEP A • Unit 1 • Prayagraj	Aug 5, 2024	Active	Unacknowleged	Low
7.	PPGCLP-U1-20240805-6SG4 STEAM TURBINE-LO & CO MODELS • Unit 1 • Prayagraj	Aug 5, 2024	Active	Unacknowleged	Medium





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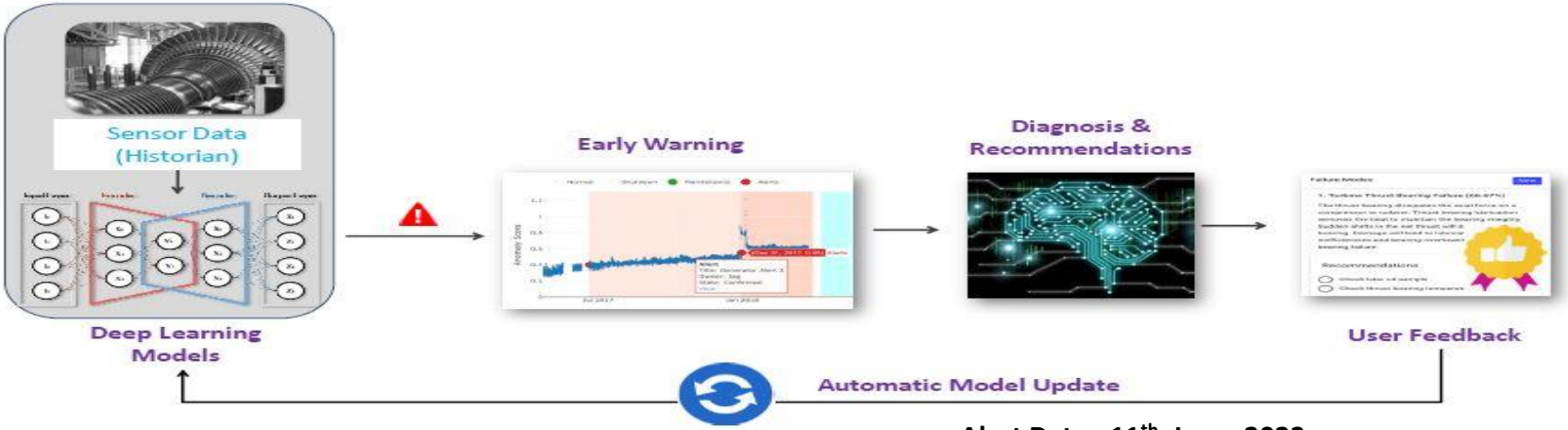
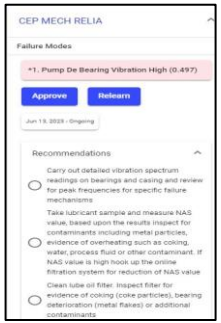
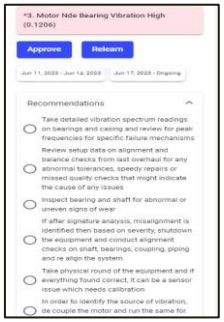
Combine Domain Expertise & AI



Unit 2 CEP A





Alert Date: 11th June 2023
Early indication by 15 days

Issue:

CEP Motor and pump vibrations are running on the higher side.
Spike observed in vibrations signals since 13th June

Potential Impact:

- Bearing Damage
- Equipment tripping

UPTIME AI

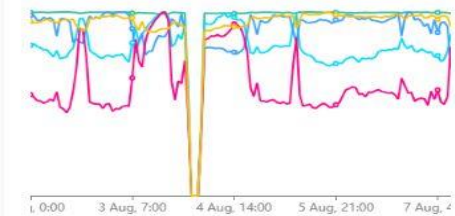
Uptime AI Performance Dashboard

BOILER EFFICIENCY
86.47%
Hourly Average

AIR TO FUEL RATIO
7.83
Hourly Average

TOTAL AIR : EXCESS AIR
1,685 Ton/hr : 56.15%
Hourly Average

FLUE GAS EXIT TEMPERATURE
130 °C
Hourly Average

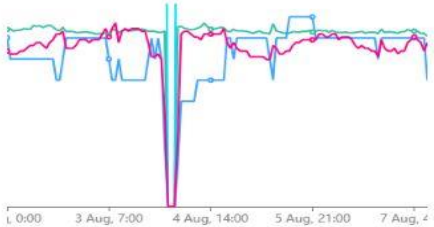


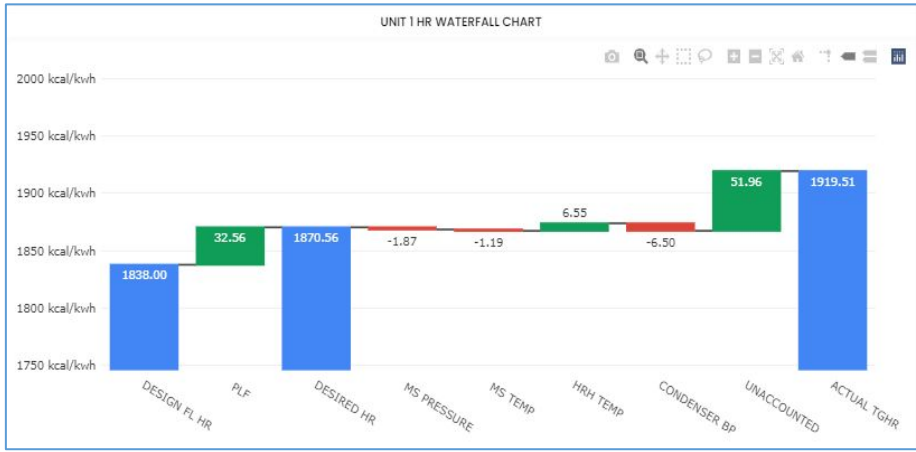
TURBINE HEAT RATE
1,830 kCal/kWh
Hourly Average

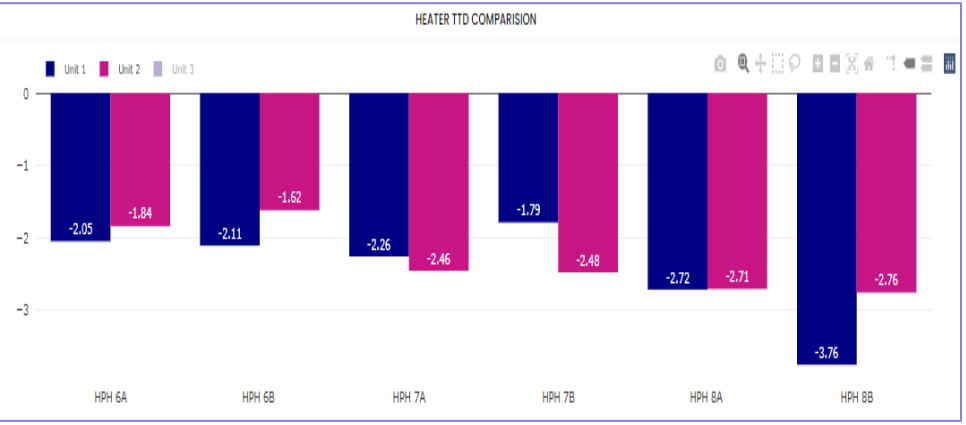
SPECIFIC STEAM CONSUMPTION
2.76 t/mWh
Hourly Average

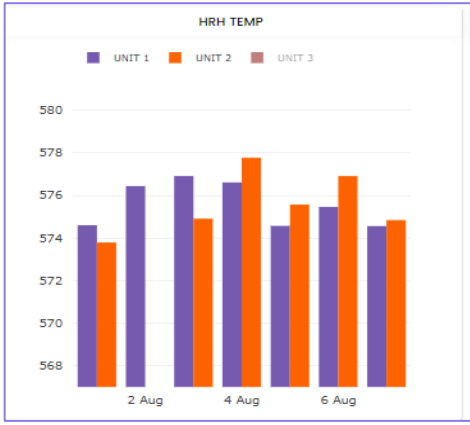
CONDENSER VACUUM
0.06 Bar
Hourly Average

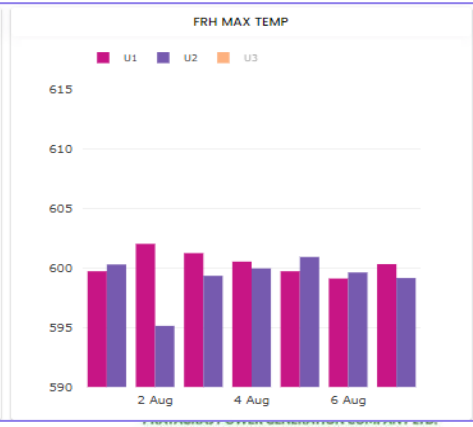
SPECIFIC FUEL CONSUMPTION
0.5838 t/mWh
Hourly Average











Best Practices : Analytics & Industry 4.0

SMILE : Smart Monitoring & Integrating Logic Expert

(Operational Excellence Next Level)

1st Time Implementation @ PPGCL

SMILE : 1st Time implemented after Ideation workshops at PPGCL

Dynamic Correction

Realtime Data collected at various load & all curve fine tuned

All Auto Loops are dynamically corrected based on Load -60%,80% & 100% live operation data

Integrated Solution for Market

SMILE Project is very successful at PPGCL & Plant is running very smooth with these changes

It is a Real Time Performance Management Solution with dynamic correction of variables changing with boundary operating conditions.

Next Level : Pro- SMILE

Pro –SMILE is an Integrated operational excellence with flexibilization & Equipment fingerprint enhancing Reliability Improvement solutions.

This will be offered other Power Plants & Heavy industry like chemical, Steal etc as a Performance improvement service.

PPGCL is under discussion to tie up with AI-MI solution company for making Pro-SMILE more intelligent and data driven solution.

Pro-SMILE is unique ,as it Gives solution based on Real Time data with Variable Load Condition. This intergraded service solution package will be ready for product offering in market. **We are in discussion with UPTIME-AI & TCS for collaboration for preparing a integrated AI based next level solution –Pro SMILE.**

This type of Digital system offered by many OEM's SIEMENS, GE & THOSIBA as a standalone software & does not integrate with Real Time Operating decision making. Also SMILE tool comes with Real O&M experience integrating equipment Health/Reliability in consideration

PRAYAGRAJ POWER GENERATION COMPANY LTD.

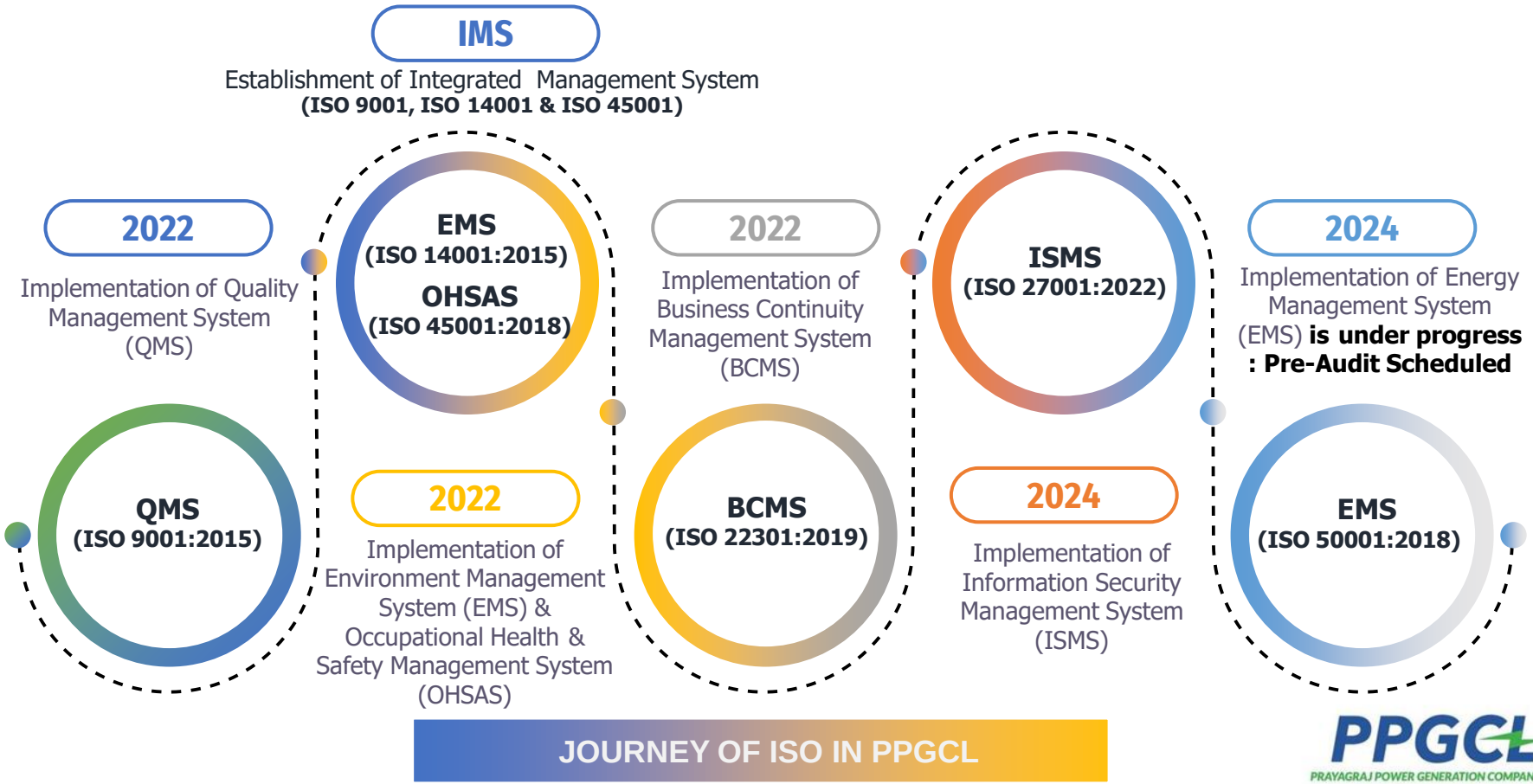
Best Practices: Afforestation

- The Green belt covers Aprox. 30 % & we have planted about 3.49 lakh saplings.
- We have done during FY 23-24, 14,288 saplings and FY 24-25 .
- PPGCL has developed over 396.9 acres of green belt .
- Strategically chosen species like Neem, Pipal, Jamun, arjun, Sesam, Kadamb, Karanja Mango, Guava, Amaltash, Kachnar, Mahua, etc. for plantation.
- PPGCL also distributes ~500+ hybrid Mango, Guava, Kadamb, saplings per year for developing afforestation in the community.

GREEN TOWNSHIP

PPGCL
PRAYAGRAJ POWER GENERATION COMPANY LTD.

IMPLEMENTATION OF ISO



JOURNEY OF ISO IN PPGCL

PPGCL
PRAYAGRAJ POWER GENERATION COMPANY LTD.

KSS:- Energy Savings

Energy Conservation Week

Awards & Accolades

Energy Efficiency Award from Mission Energy

Environment Excellence Award – 2022

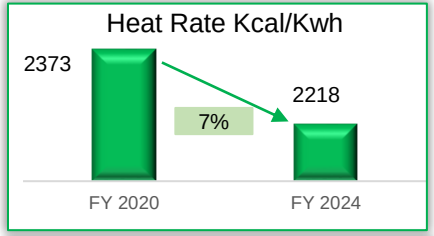
Water Optimization Award 2022

Best Energy Efficient Unit above 500 MW from CEE

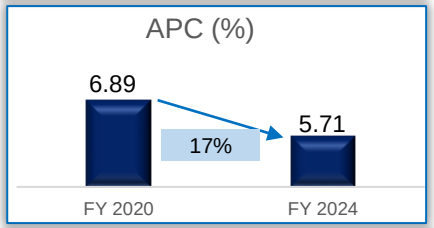
Quality Innovation Award 2022

Turn Around of Operational Performance

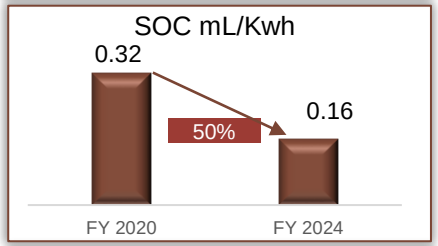
Heat Rate saving — 182 Cr



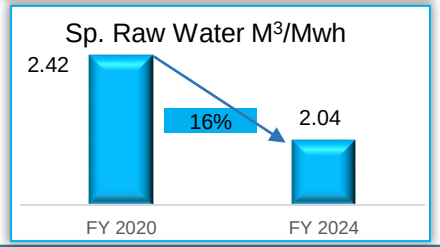
APC Saving — 32 Cr



LDO Saving — 20 Cr



SPC Water saving — 1.4 Cr



A Stressed assets become turnaround within 1.5 Years of Operation !!

At PPGCL saving of Heat rate of About 1 Kcal/Kwh, gives monitory saving of 1.2 Cr in a Year.

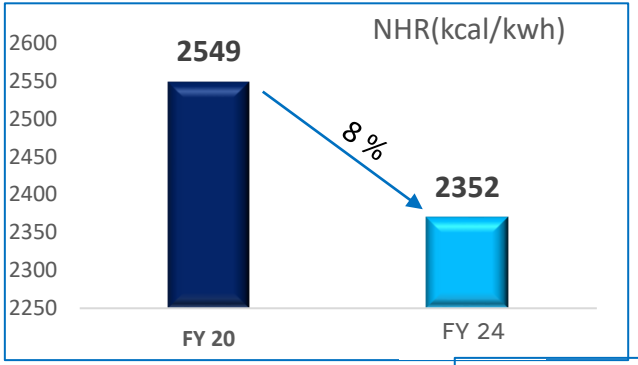
By taking these initiatives of Real Time Heat rate monitoring, Auto Loop Tuning by team PPGCL able to reduce more than 155 Kcal/Kwh.

So, improving the operational efficiency by improving the operational parameter, PPGCL Improved the Heat rate & reduce the Energy cost by approx. 20 Paisa/Kwh.

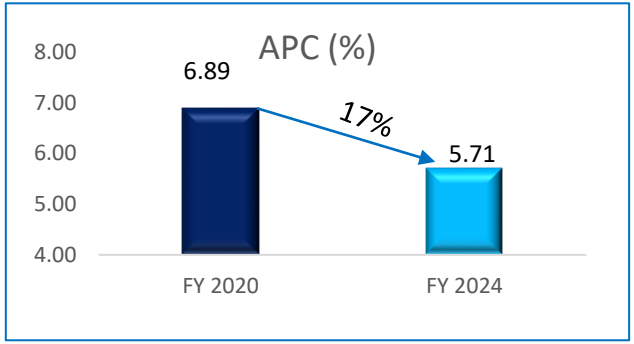
PPGCL adopted Industry 4.0 practices for sustainable practice.

Benefit To Customer :

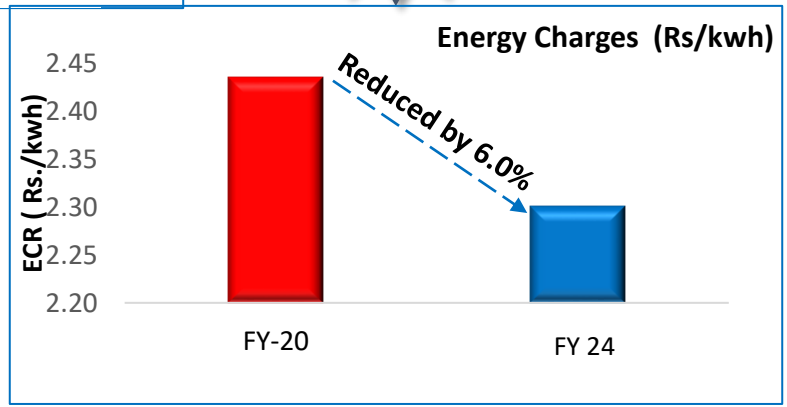
- ✓ PPGCL Supplying 90% of Its Power to UPPCL & For the 1st Time UPPCL getting most Reliable & cheap power from PPGCL.
- ✓ PPGCL become MOD rank 2nd from its 4th Position in IPP (1st non pit head).



Achieving Operational Excellance



UPPCL Reduced their Power Purchase Cost by 150+ Cr / Year



PPGCL
PRAYAGRAJ POWER GENERATION COMPANY LTD.

Thank you !!

Registered Office :
Shatabdi Bhawan, B 12 & 13, Sector 4, Gautam Budh Nagar, Noida, Uttar Pradesh – 201301.
Phone: +91-120-6102000/ 6102208 | **CIN:** U40101UP2007SGC032835

Plant Address:
P.O. – Lohgara, Tehsil – Bara, Prayagraj (Allahabad), Uttar Pradesh – 212107.
Phone: 7525006400/ 8528846666