UltraTech Cement Limited
Unit: Vikram Cement Works

Team Leader		Team Member/ Presenter's			
Name	Jasmin Bhavsar	Rina Shinde		Vivek Sharma	
Designation	General Manager- Process	General Manager- Quality Control		Asst. Manager (TS)	
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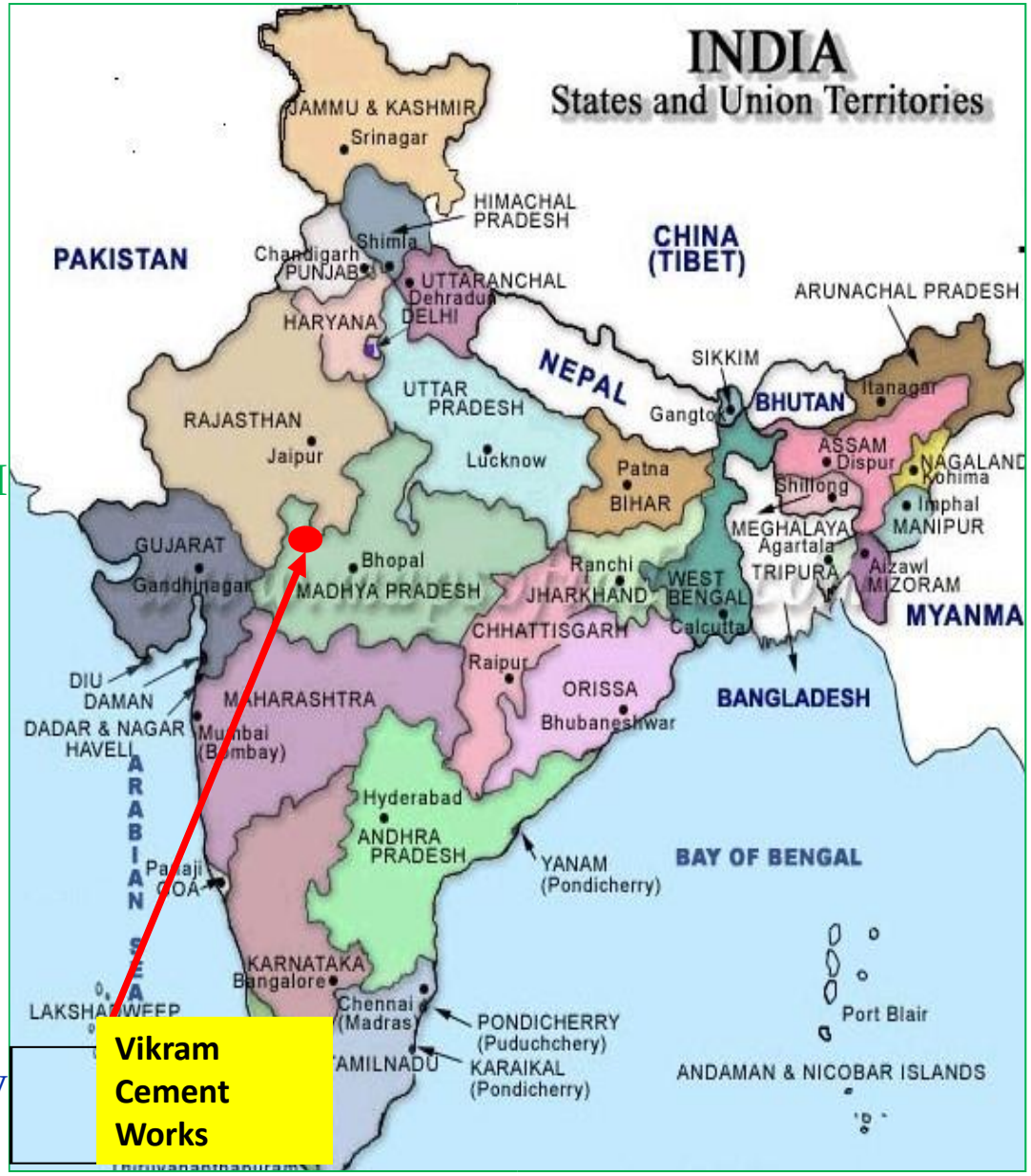
Company Profile: Unit Introduction

Confederation of Indian Industry

UltraTech Cement Ltd – Vikram Cement Works

UTCL : A part of ABG which is the best employer in India and Asia Pacific region.

- Vikram Cement Works : A Unit of UltraTech which is Third largest Cement producer in World (Ex-China).
- 46 MW Captive Thermal Power Plant (2X23MW).
- First Cement Plant in India acknowledged as pioneer of TPM, JIPM Japan in 1995
- First Cement plant in India to obtain ISO 14001 in 1997, EMS Certification from DNV
- Certified with ISO 9001, 14001, ISO45001, ISO 50000,ISO 27001, SA8000 standards
- Certified with ISO50001 & Implemented Energy Policy in 2013
- Adopted WCM Excellence Model & Achieved Two times Gold award
- In year 2019 Sept, unit awarded with CII National Excellent Energy Efficiency Award & stood Ist.



Major Sections - Specifications

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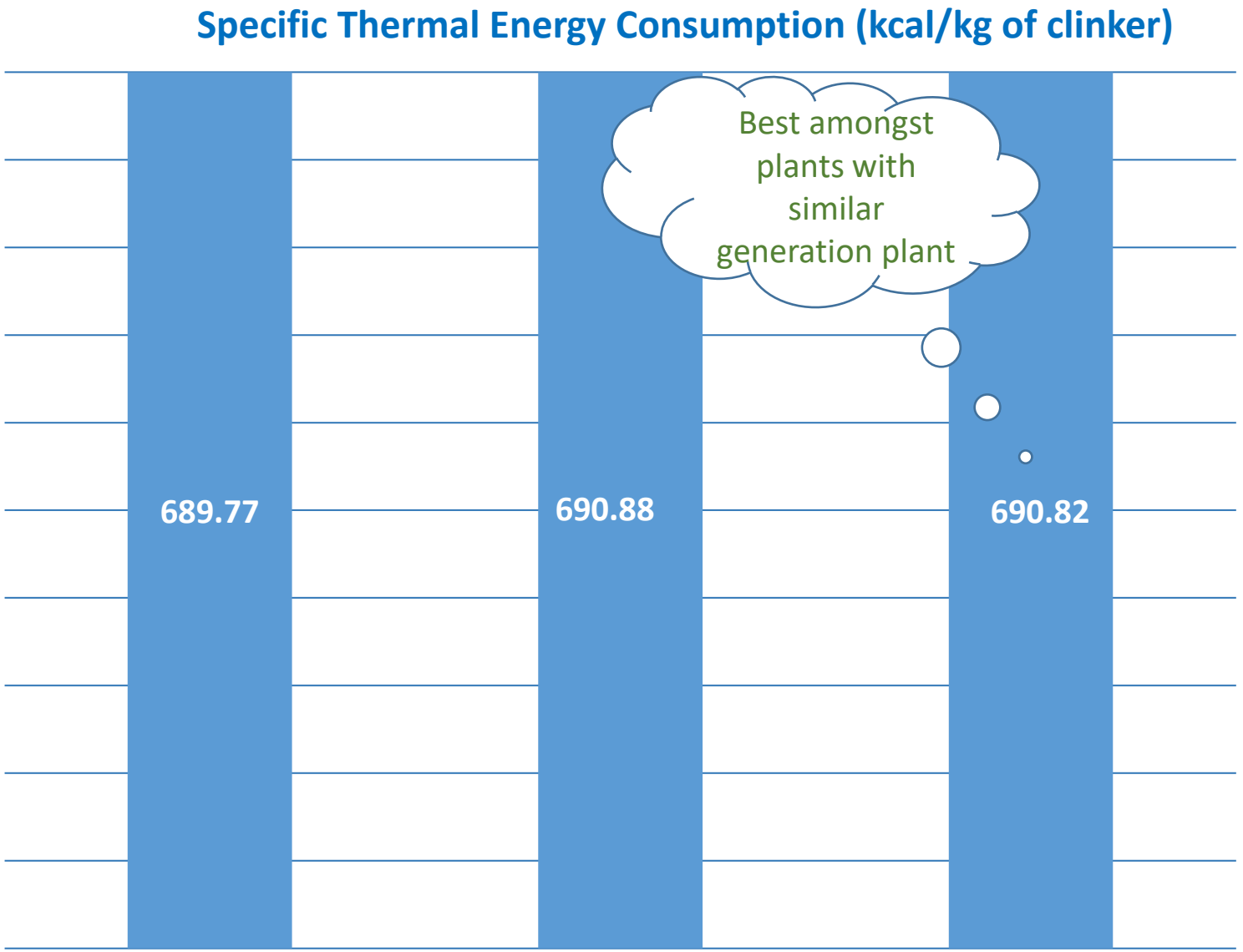
Line-1 Section	Equipment Type	Make	Installed Capacity	Operating Capacity
Kiln& Preheater	6 stage, single string with SLC	KHD Humboldt	1500 TPD	2850 TPD
Raw Mill	VRM	Loesche	135 TPH	200 TPH
Cement Mill	Ball	KHD	140 TPH	150 TPH

Line-2 Section	Equipment Type	Make	Installed Capacity	Operating Capacity
Kiln& Preheater	6 stage, single string with SLC	KHD Humboldt	1500 TPD	2850 TPD
Raw Mill	VRM	Loesche	135 TPH	200 TPH
Cement Mill	Ball	KHD	140 TPH	150 TPH

Line-3 Section	Equipment Type	Make	Installed Capacity	Operating Capacity
Crusher	Single	Beumer	1800 TPH	
Kiln& Preheater	6 stage, double string with ILC	Krupp Polysius	3000 TPD	4400 TPD
Raw Mill	Ball	Krupp Polysius	250 TPH	285 TPH
Cement Mill	Ball	Krupp Polysius	165 TPH	175 TPH

Sp. Thermal Energy Consumption (FY 20 to FY 22)



Sp. Electrical Energy Consumption (FY 20 to FY 22)

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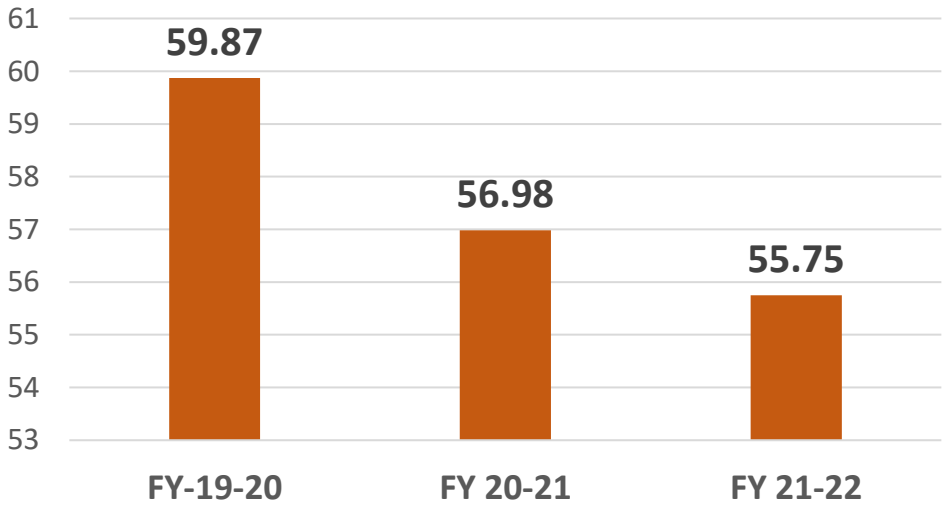
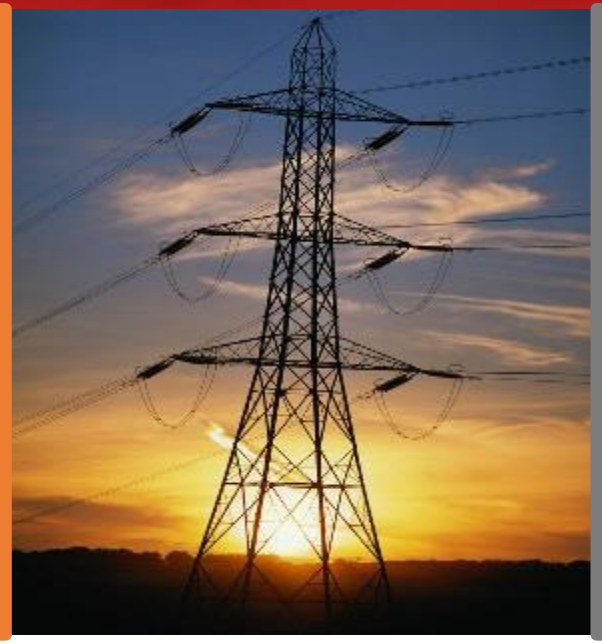
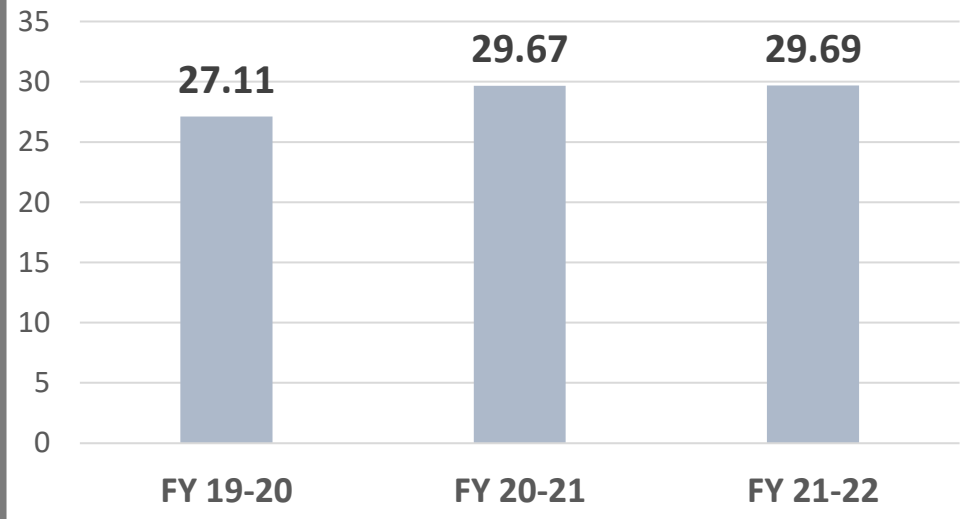
Up to Clinker (Kwh / MT clinker)

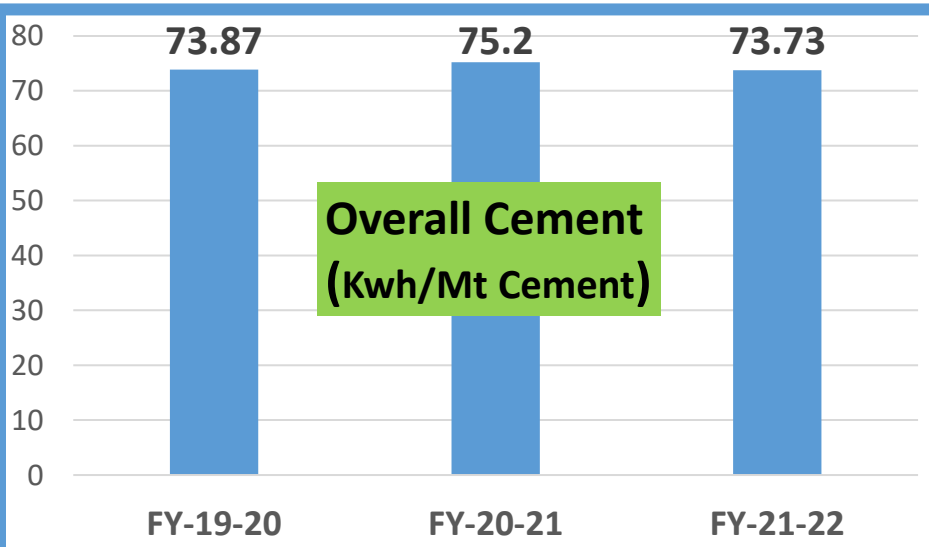




OPC – (Kwh/MT Cement)

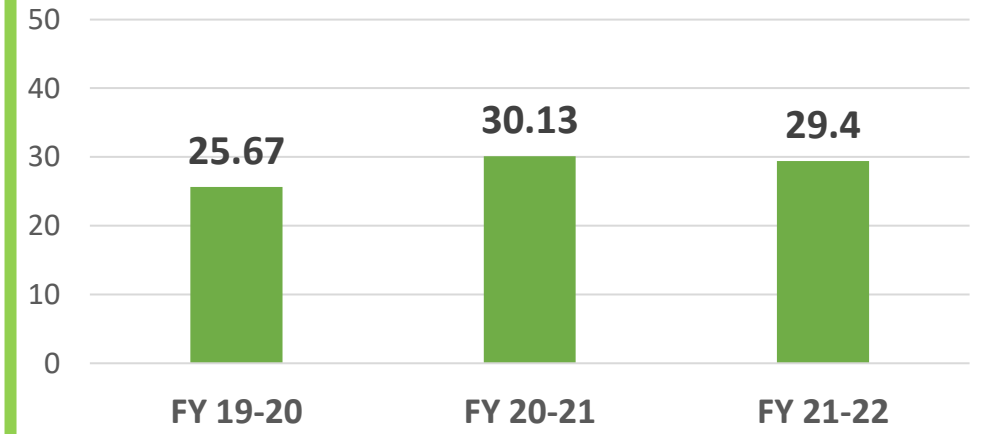


Overall Cement (Kwh/Mt Cement)



In FY-20 due to less demand of cement,87% cement grinding done through efficient RP+Ball mill in line-3 whereas in FY-21 due to high demand line-1 &2 contributed 52%,Hence high sp. power in FY-21 w.r.t FY-20

PPC – (Kwh/MT Cement)



SPC reduction in initiatives..(Up to Clinkerisation Power)

58.04

FY 2017-18

- With average out put of 9449,Power consumption was high.

57.68

FY 2018-19

- With average out put of 9300,Power consumption was high.
- Power reduction initiatives started by reducing ideal running time of equipment
- Implemented logics to optimized running of equipment

59.87

FY 2019-20

- With average out put of 9145,Power consumption deviation reduced nearest to target.
- False air reduction across preheater from 14 % to 11%
- Optimization of blaster operation reduced axillary power from 2.4 to 2.2

56.98

FY 2020-21

- With average out put of 9169,Power consumption become lower than target
- power reduced by 0.3 kw/t clk by reducing in specific air of cooler from 2.19 to 1.9 Nm3/Kg Clk
- Power reduced by 0.3 Kw/t clk due to reduction in specific air of PH fan from 1.48 to 1.41 Nm3/Kg Clk.
- Power reduced by 0.2 kw/t clk by optimization of Compressed air power from 2.2 KWH / MT Clinker to 1.9 Kwh/Mt

Achieved ever lowest clinkerisation power

55.75

FY 2021-22

- Further optimization in specific air in PH & Cooler
- Further reduction in False air ingress (Target lower than 9%)
- Process Optimization by digitalization through advance PID tuning
- Maximum utilization of tri lobe blower in kiln firing

SPC reduction initiatives.. (Combined Kiln Power)

26.89

FY 2017-18 Target : 26.00

- With average out put of 9449,Power consumption was high.

26.14

FY 2018-19 Target :25.88

- With average out put of 9300,Power consumption was high.
- Power reduction initiatives started by reducing ideal running time of equipment
- Implemented logics to optimized running of equipment

Achieved ever lowest Kiln-3 YTD power 23.86 in Mar-22
(Total Saving of 1.52 cr)
(Capex Saving of 34.8 Lakhs)

25.75

FY 2019-20 Target :25.46

- With average out put of 9145,Power consumption deviation reduced nearest to target.
- False air reduction across preheater from 14 % to 11%
- Optimization of blaster operation reduced axillary power from 2.4 to 2.2

24.96

FY 2020-21 Target :26.43 (As budgeted production was lower)

- With average out put of 9169,Power consumption become lower than target
- power reduced by 0.3 kw/t clk by reducing in specific air of cooler from 2.19 to 1.9 Nm3/Kg Clk
- Power reduced by 0.3 Kw/t clk due to reduction in specific air of PH fan from 1.48 to 1.41 Nm3/Kg Clk.
- Power reduced by 0.2 kw/t clk by optimization of Compressed air power from 2.2 KWH / MT Clinker to 1.9 Kwh/Mt

Achieved ever lowest combined power 24.10 in July-21

24.55

FY 2021-22 Target :25.32

- Further optimization in specific air in PH & Cooler
- Further reduction in False air ingress (Target lower than 9%)
- Process Optimization by digitalization through advance PID tuning
- Maximum utilization of tri lobe blower in kiln firing

Strategic initiatives to reduce cost (Coal Mill section)

48.54

FY 2018-19 Target :49.64

- With average out put of 10 tph, Power consumption was high.
- 100% petcoke grinding (low residue requirement)

47.22

FY 2019-20 Target :48.64

- 100% petcoke grinding.
- False air reduction across coal mill section from 18 % to 16%
- Optimization of fan inlet cone; removal of venturi at fan inlet.
- Nozzle dimension optimization.

42.19

FY 2020-21 Target :47.77

- Grinding separately Petcoke & Bituminous coal for Kiln and Calciner firing.
- False air reduction across coal mill section from 16 % to 15%
- Coal Mill BH (old) fan replacement with new high efficiency fan.

37.28

FY 2021-22 Target :43.90

- With combined grinding of petcoke and bituminous coal
- Replacement of gravel gate with designed gap.
- Dynamic separator Seal gap adjusted as per design
- Optimization of table speed, fan flow and separator RPM
- Further reduction in False air ingression
- Process Optimization by digitalization through PID tuning
- Reduction in ideal running of coal transport belt during rain season.

Achieved ever lowest combined TYD power 37.28 Kwh/Mt (Saving of 1.24 Cr.

Variance Matrix

Parameters		YTD Figure			
		2020-21	**2021-22**	**Variance**	**Reason for Variance**
Sp. Thermal Energy Consumption	**(kcal/kg of clinker)**	690.88	690.82	**0.06**	Improved
Sp. Electrical Energy Consumption	**Up to Clinker** (Kwh / MT clinker)	56.98	55.75	**1.23**	Improved 2.15%
	Overall Cement (Kwh/Mt Cement)	75.20	73.73	**1.47**	Improved 1.95%
	OPC (Kwh/MT Cement)	29.67	29.69	**-0.02**	
	PPC (Kwh/MT Cement)	30.13	29.40	**0.73**	Improved 2.42%
Fly ash absorption	**%**	28.47	30.99	**2.52**	Improved
Solar generation power mix	**%**	0	6.00	**6.00**	Improved

Plant performance & Benchmarking with Ultra Tech units

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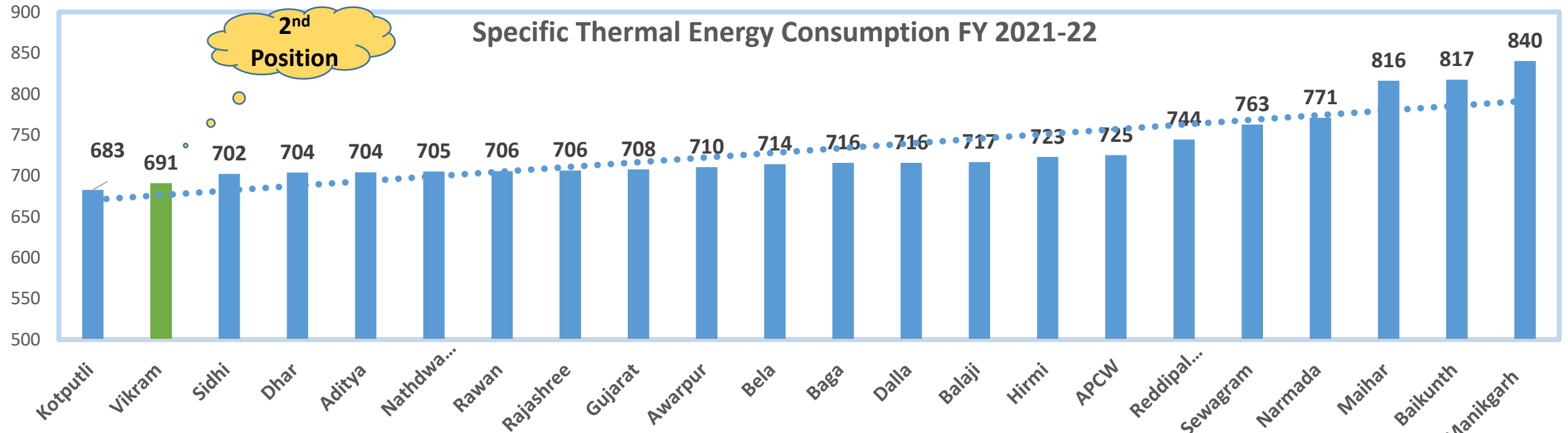

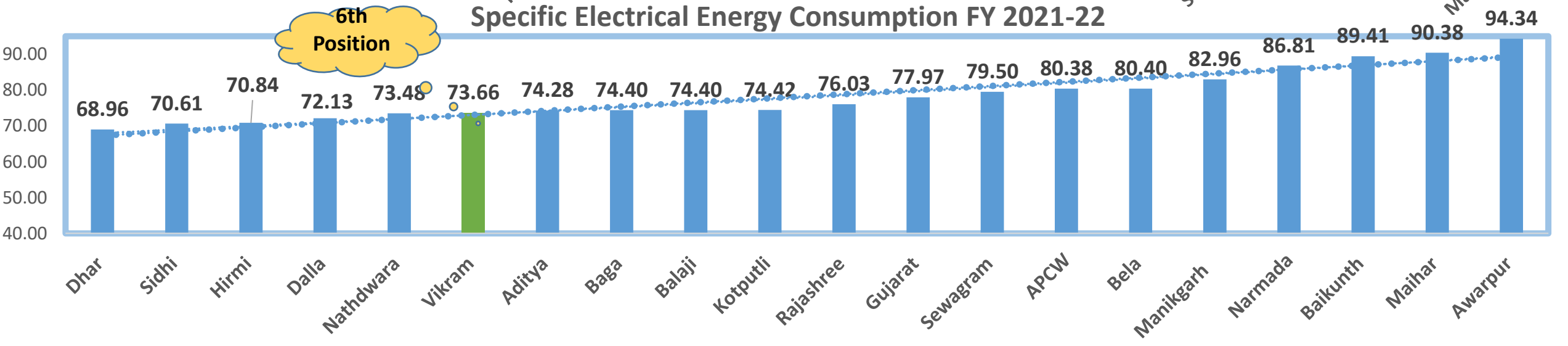

Road Map-EnCon Journey & Business Savings

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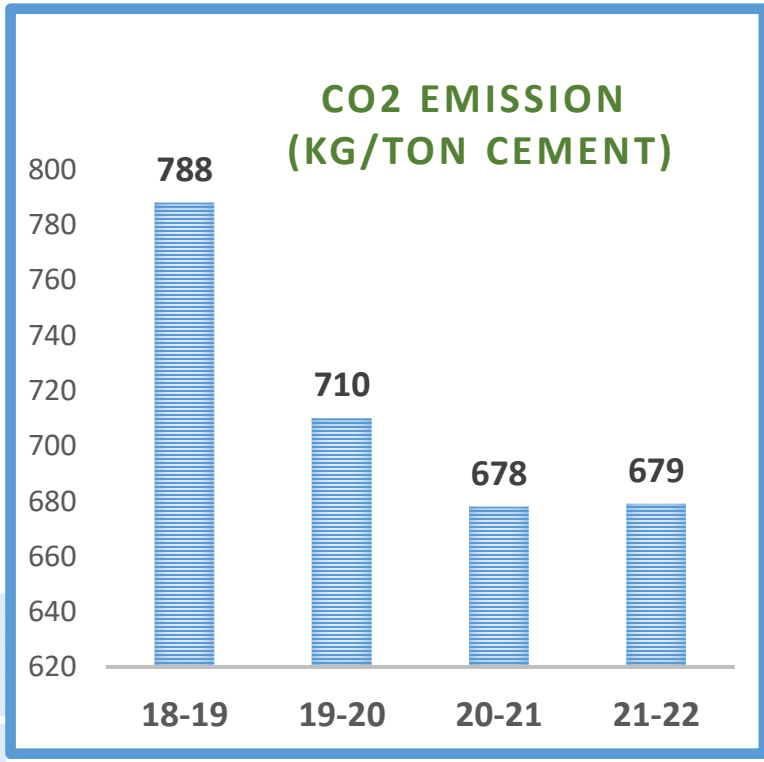
"INNOVATION = IDEA + LEADER + TEAM + PLAN"

2019-20	
SHC	689.77
SEC	59.87
EnCon Projects	19 Nos.
Savings INR/Annum	6.975 Million Rs.

2020-21	
SHC	690.88
SEC	56.98
EnCon Projects	46 Nos.
Savings INR/Annum	27.547 Million Rs.

2021-22	
SHC	690.82
SEC	55.75
EnCon Projects	60 Nos.
Savings INR/Annum	25.34 Million Rs.



SUMMARY (FY2020-22)

EnCon projects	125 Nos.
Savings	59.772 Million Rs.

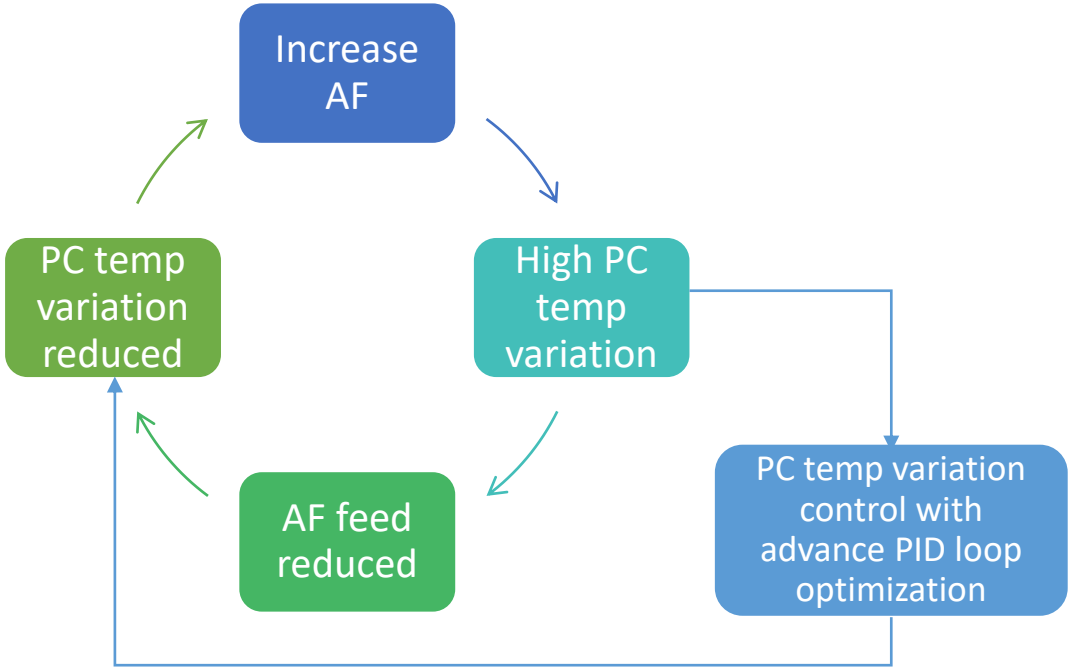
Major EnCon projects planned in FY 2022-23

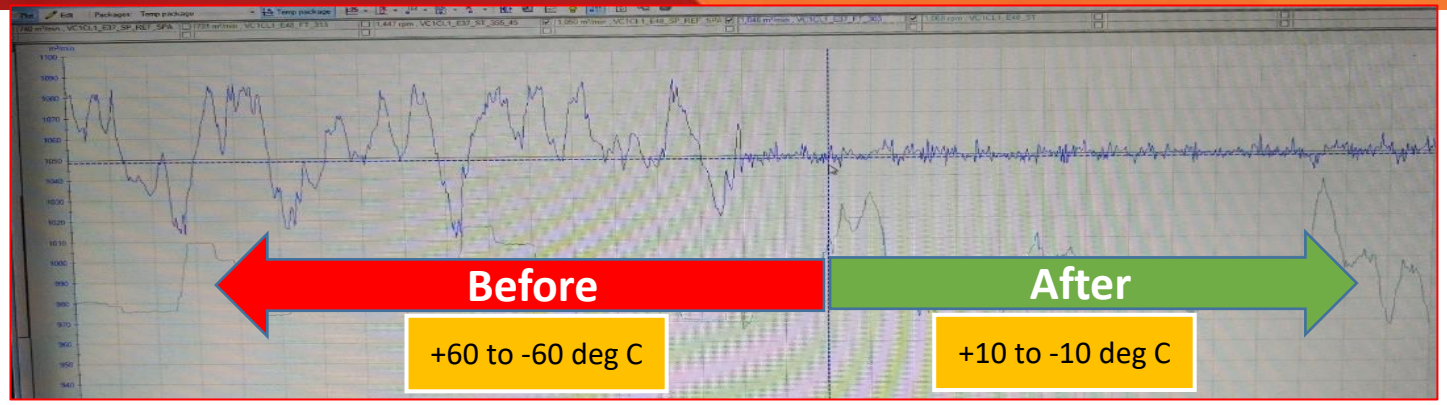
Sl. No.	Project Description	Annual Electrical Saving	Annual Thermal Saving	Investment
		(Million Kwh)	(Million Kcal)	(Rs. In Million)
1.	Cement transfer (from L-3 Cement mill to L-2 Silo) through Air slide instead of pneumatic system	0.4204	0	9.7
2.	482 KWp rooftop solar plant installation at Staff and Durga colony (Roof top solar at various locations(0.48 MWp)	0.6362	0	22
3.	Line-1 &2 Cooler upgradation for capacity enhancement and thermal efficiency improvement.	0	60000	Under Study
4.	13 MW WHRS plant installation	1000	0	1350
5.	Installation of new solar power plant of 1.5MWp	4.32	0	21.5
6.	Raw Mill recirculation system	0.63	0	Under Study

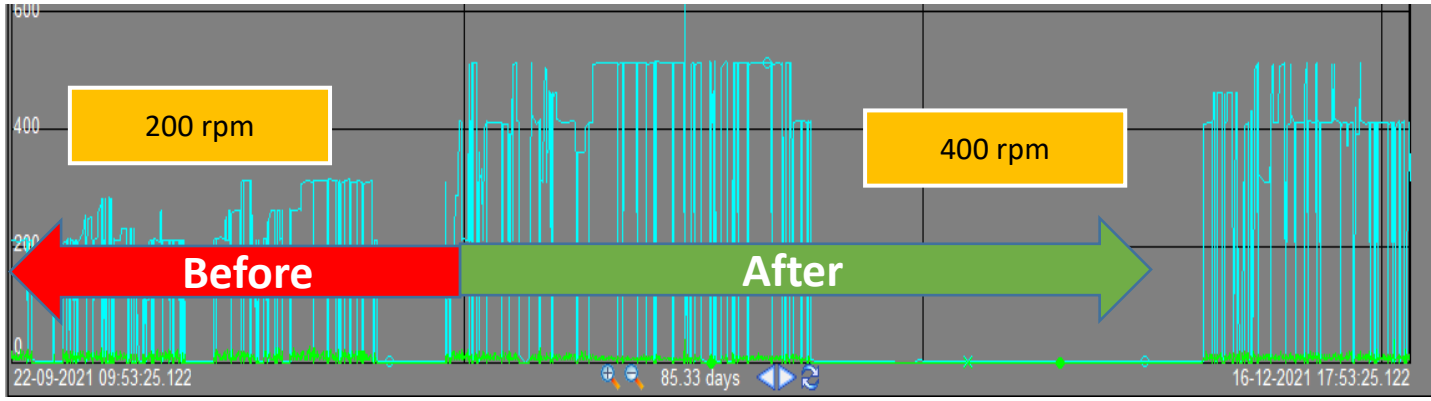
Innovative Project to increase Plastic consumption

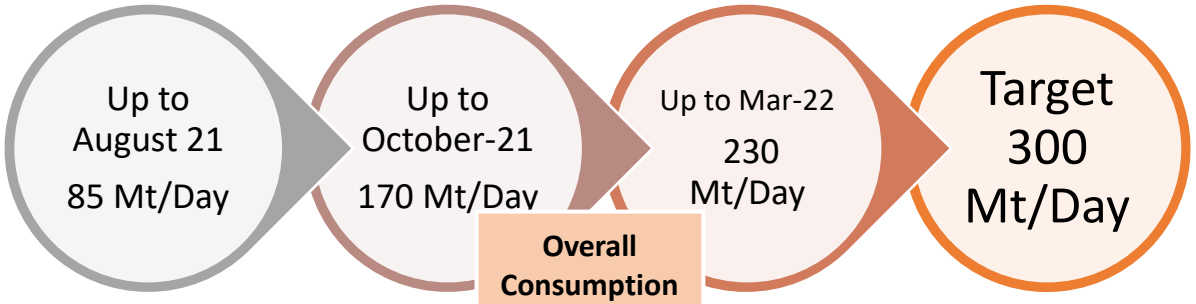
Pyro Firing Optimization

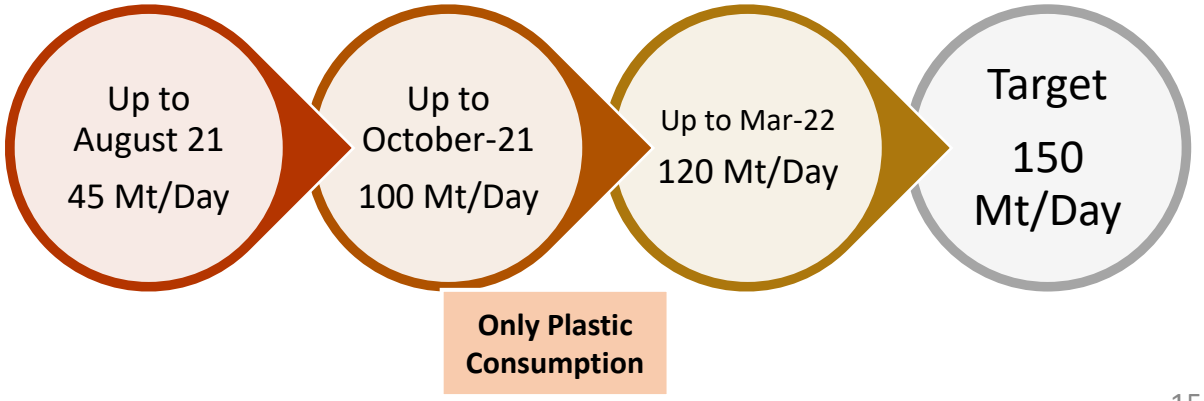
Calciner temp variation reduced resulting in stable plant operation, averted cyclone jamming & reducing conditions.











Innovative project- Digitalisation to increase Plastic AFR

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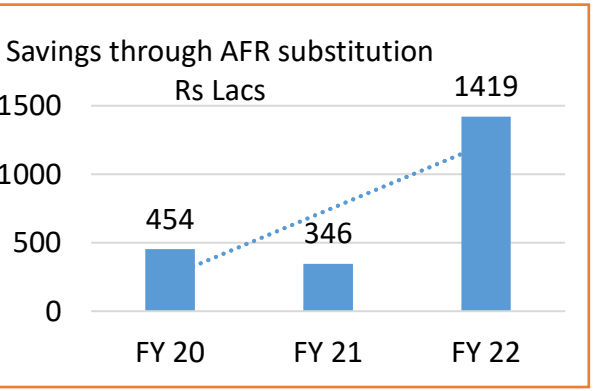
Theme:

To Increase plastic AFR consumption in process with stable operation

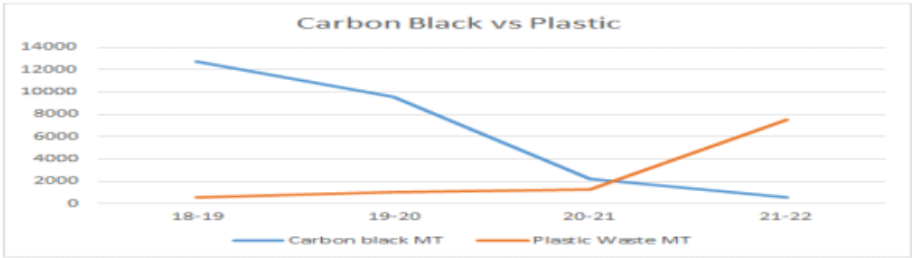
Problem/Challenges: On increasing the plastic AFR feeding , following problems/challenges were faced

1. Frequent Cyclone Jamming & reducing conditions
2. Unstable operation due to process disturbance
3. PreCalciner temperature variation

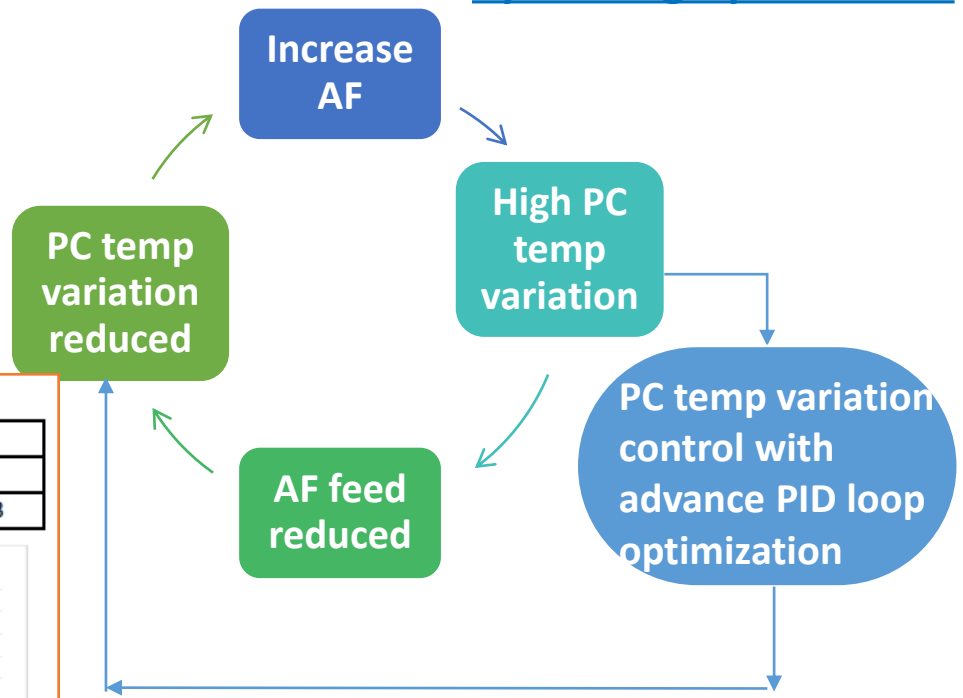


Continuous substitution of fossil fuel & carbon black with plastic waste as shown.

FY	18-19	19-20	20-21	21-22
Carbon black MT	12686.92	9557.56	2188.17	523.69
Plastic Waste MT	562.58	1057.22	1267.20	7535.23



Pyro Firing Optimization

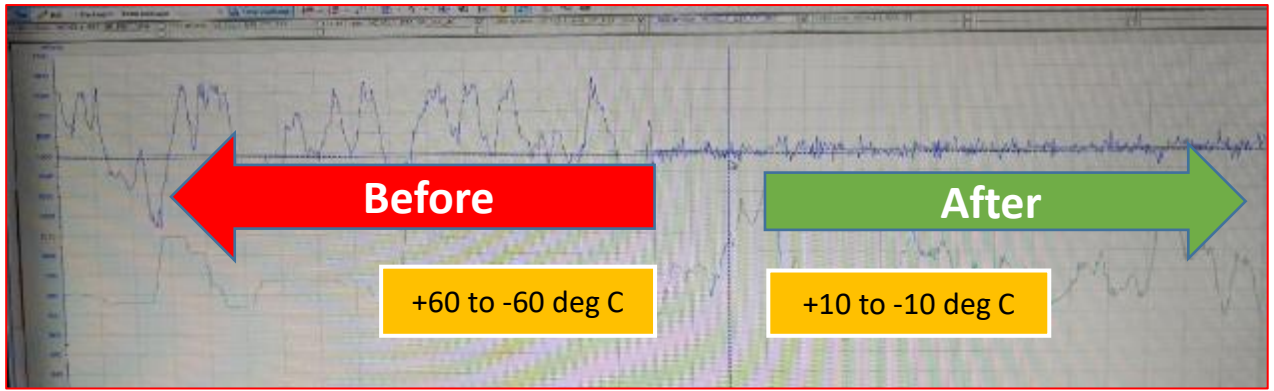


Action Taken:

1. Brainstorming was done with team regarding the problem.
2. Collective outcome was decided to solve the problem digitally
3. Series of trials done and results documented and discussed
4. **Advanced PID control loop developed and incorporated in the logic**

Results Achieved:

1. Frequent Cyclone Jamming & reducing conditions avoided.
2. Stable operation , No process disturbance.
3. Minimum PreCalciner temperature variation reduced.



Innovative Project-Raw Mill 3 Drying Chamber removal

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Theme

Raw mill 3 Drying chamber removal work

Problem

Raw Mill-3 was initially designed with drying chamber which was contributing to unnecessary extra power consumption

Solution

Removed the drying chamber (Wt. of drying chamber 7.5 MT)
Power Reduction- 40Kw/hr.

Benefit

Overall saving 40 Kwh approx. .

Saving achieved of Rs. 17.65 Lac @ Rs. 6.78 per unit.

Innovative project- Power Saving through fan modification

Confederation of Indian Industry

Theme

Cooler fan inlet duct size reduction & conversion to bell mouthed
PA & SA fans mesh size modification

Problem

High pressure drop across strait duct & small size mesh

Solution

Plant Cooler Fans

- Removal of inlet damper from cooler fan 2 & 3.
- Removal of inlet duct from flange in Cooler fan 2, 3, 6 & 7
- Cutting of fan inlet duct in cooler fan 4 & 5

Benefit

- After modification of cooler fan inlet duct, damper removal etc, unit achieved 40 kWh saving in cooler group. Cost saving is Rs. 26.90 Lacs/annum
- After modifications in wire mesh size in fans, unit achieved 25 kW/Day power saving in fans. Cost saving achieved as Rs. 0.74 Lacs/annum

Best Practices in the Plant (Non Energy Efficiency)

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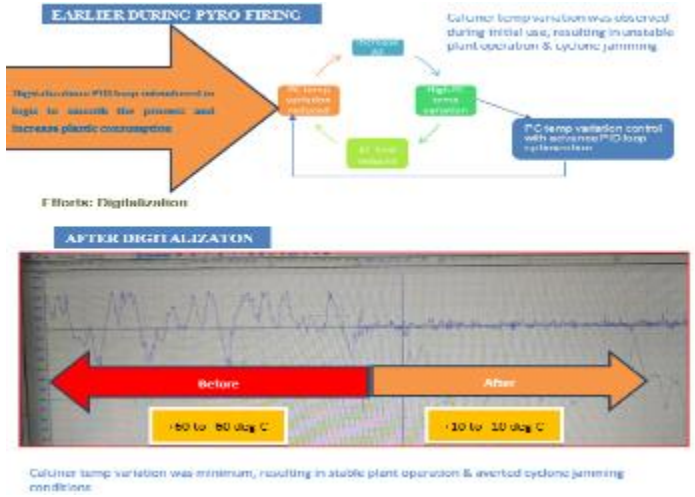
Digitization

- Pyro firing PreCalciner PID loop

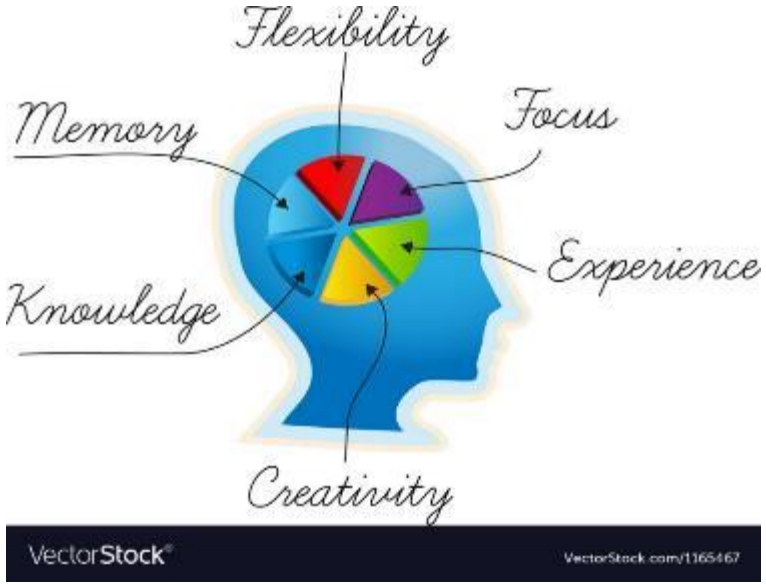


- Water Harvesting and rare species plantation

Biodiversity

- Touch less elevator operation.

Innovation



Equipment Safety

- Belt tear Arrangement Hook-up with DCS.

Waste Water Management

- Sewage Treatment Plant

Renewable Energy Uses

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Green Power

- 8.9 MWp Solar power installation done and power generate Avg. 45 to 50 MW/day.
- 482KWp Roof top solar plates installed at Durga colony and staff colony school buildings.
- Study have been done for 13 MW WHRS.
- 1.5MWp Expansion is going on at Loader colony area
- Feasibility study is planned for roof top solar plants at thermal power plant

100% Green Building :

VCW Hospital, ABPS School , ABHSS- School , e3 Cinema Hall, Shopping Complex, and young manager home buildings

8.9 MWp Solar power Generating 45 to 50 MW/day power

482 KWp Roof top Solar plats power Generating Power 1.5 to 2.35 MW/day

Utilisation of Renewable Energy sources

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Year	Technology(Electrical)	Type of Energy	Onsite/Offsite	Installed Capacity (MW)	Generation (million kWh)	% of overall electrical energy
FY 2021-22	Power Generation	Solar	Onsite	8.9	1.4028	0.59

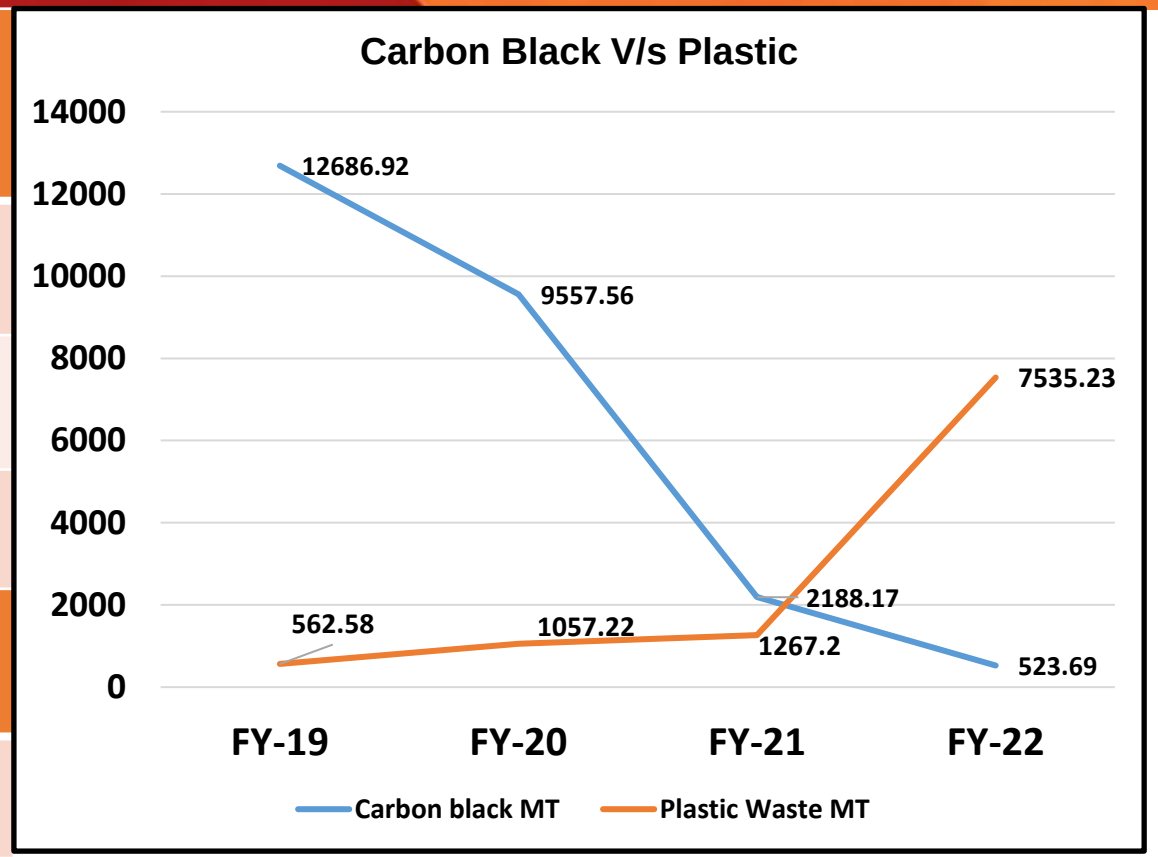
Capacity Addition	Investment/Remarks
1. 8.9 MW Solar plant	Agreement with M/s Amplus Dakshin power with UltraTech share of 26% equity equivalent to Rs. 30 Million
2. 50 MW Hybrid (Solar+Wind)	UltraTech has a 25 year contract with M/s Aditya Birla Renewable Ltd. Our unit VCW has a share of 10 MW equivalent to Rs. 83.8 Million.
3. Installation of new solar power plant of 1.5MWp	Rs. 21.5 Million

Waste utilized as fuel & alternative raw material

Year	Plastic Waste Cons. Quantity	Total AFR Quantity	Plastic Waste as percentage of Total AFR
FY -20	1057.22	28570.37	3.70%
FY -21	1267.20	27890.64	4.54%
FY -22	7535.23	33111.37	22.75%

Year	Waste as Raw Material	Quantity	Savings by Substitution (Rs. Lakhs)
FY -20	NIL	-	-
FY -21	a) Red Mud b) Aralumina	a) 575.97 MT b) 1183.204 MT	348.76
FY -22	a) Red Mud b) Aralumina	a) 46710.85 MT b) 1533.43 MT	600.01

Red Mud in place of Laterite , Aralumina in place of Bauxite



	FY-19	FY-20	FY-21	FY-22
Carbon black MT	12686.92	9557.56	2188.17	523.69
Plastic Waste MT	562.58	1057.22	1267.20	7535.23

Infrastructure for AFR processing

Storage and Feeding Hoppers

Unloading of Alternate Fuel

Mix Feeding belt

GHG inventorization and publication

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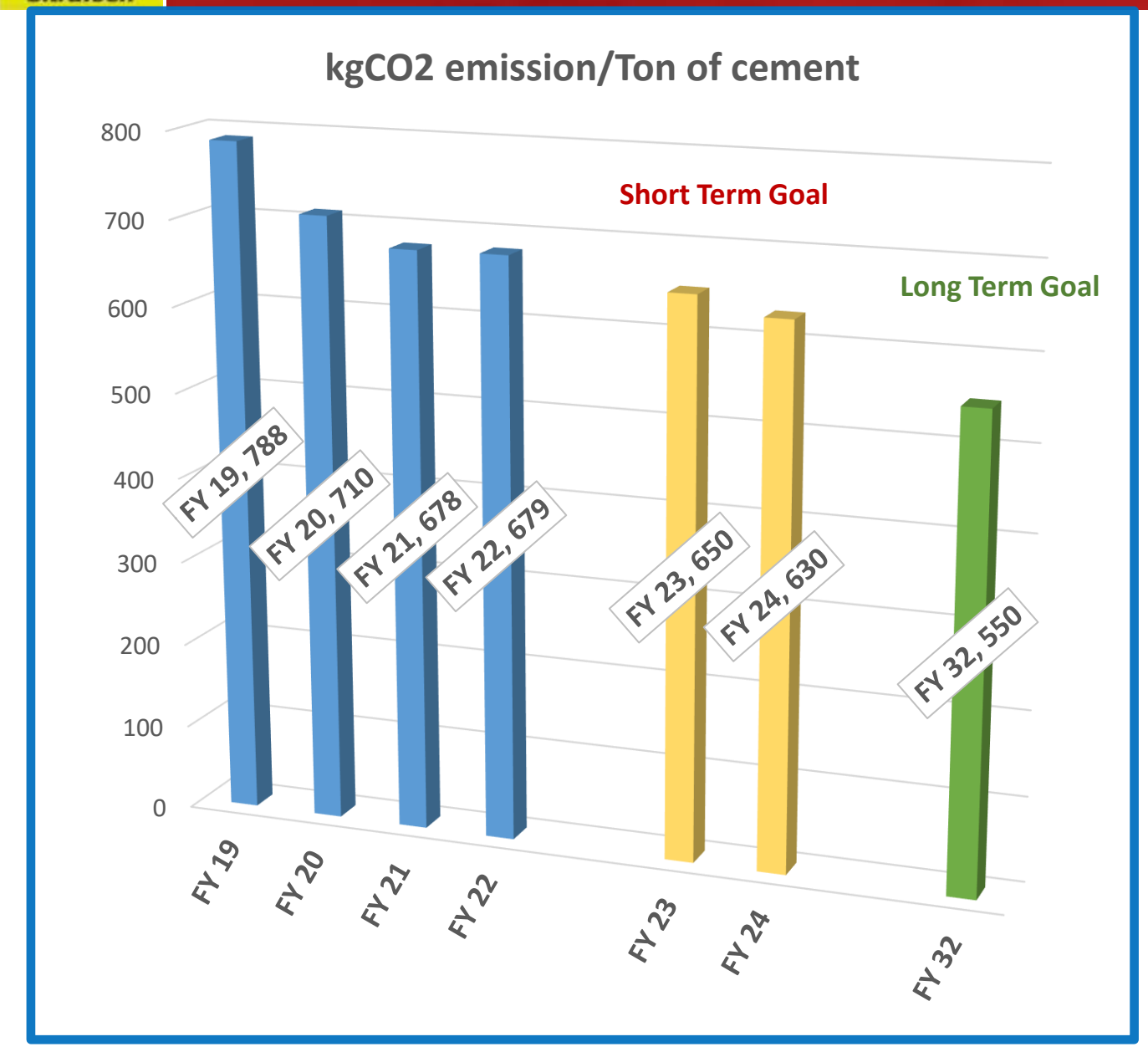

Action Plan

Increased TSR% as fuel (already using 25% in Line-3)

10MW Hybrid (Solar+Wind) plant under study/proposal

WHRS installation of capacity 13 MW in planning stage for FY-23

Green Purchase Policy

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ADITYA BIRLA

UltraTech Cement Ltd

Vikram Cement Works

Green Procurement Policy

1. INTRODUCTION

Green Procurement Policy is an integral part of the Sustainability policy and UltraTech Cement Ltd (UTCL) formal procedures and considerations for purchasing goods and services. Green Procurement incorporates human health and environmental concerns into the search for high quality efficient products and services at competitive prices UTCL ranks environmental sustainability as one of its top priorities and is committed to following responsible business practices by contributing to environmental protection and enhancing people performance by green procurement and services while ensuring business growth for its supply chain. Along with customers and investors interest towards green operations, it also helps reduce operational cost in the form of resource efficiency and reduced wastage. Green procurement ensures social and environmental standards from suppliers

2. SCOPE

This policy shall apply to all supply chain partners and shall impact all purchases and procurement for the organization.

3. OUR COMMITMENT

UTCL undeterred focus on good corporate governance is strengthened by our commitment to sustainable development and our short-term and long-term goals. Green procurement policy helps us make purchase decisions that are socially and environmentally responsible. It helps in improving operational efficiency, mitigate any risks including regulatory risks and enhance us as a sustainable brand. We believe that environmentally sustainable business operations have become a normative practice and forms a key part of our sustainability strategy and governance practices.

4. PROCUREMENT POLICY

UTCL seeks to reduce the environment impacts of our procurement process and also encourage our suppliers to adopt sustainable supply chain practices. UTCL shall engage with our supply chain partners and shall include the following considerations into procurement decisions

- Encouraging suppliers to deliver products/services with minimal negative impact on environment and adopt safe practices in the cycle from production to delivery
- Prefer products that are eco-friendly, energy efficient and less polluting.
- Prefer products that have energy star ratings or green certifications
- Disposing goods to authorized agencies/recyclers in environmentally friendly manner
- Using products that are water efficient and reduce water usage
- Consider Life Cycle Cost during procurement activities
- Procure less toxic products and chemicals to reduce health effects
- Utilizing clean technology and/or clean fuels
- Monitoring, evaluating sustainability performance and identifying improvement opportunities
- Reducing environmental footprints by means of material, energy & water conservation
- Encouraging logistics optimization, local buying and using Circular economy principles for waste management using 4 R (Reduce, Recover, Recycle & Reuse)
- Promoting a safe and healthy workplace for the employees
- Promoting sustainability awareness and green work culture among associates to reduce emissions
- Enhancing sustainability within their own supply chain
- Procuring recycled/part-recycled products to optimize resource consumption

5. POLICY REVIEW

The policy will be owned by Procurement team & Corporate Sustainability who will be responsible for making suitable amendments, if any, from time to time.

Unit Head

Energy Management System Certification- Journey

DNV

MANAGEMENT SYSTEM CERTIFICATE

This is to certify that the management system of

UltraTech Cement Limited (Unit: Vikram Cement Works)

Vikramnagar, P.O. Khor, District: Neemuch - 458470, Madhya Pradesh, India

has been found to conform to the Energy Management System standard:

ISO 50001:2018

This certificate is valid for the following scope:

Manufacture of cement

ISO 50001-2018 Energy Management System Audit Certificate Valid till 2024

Energy review

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LS Crusher
- Team Leader- Mr. Rajendra Gandhewar

Raw Mill
- Team Leader- Mr. Jasmin Bhavsar

Kiln & Coal Mill
- Team Leader- Mr. Asgar Ali

Packing Plant & CHP
- Team Leader- Mr. S.K.Bhoothra

Compressor
- Team Leader- Mr. Sanjay Lonkar

TPP
- Team Leader- Mr. Praveen Vijayvargiya

False Air
- Team Leader- Mr. Rajendra Gandhewar

AFR –Consumption & procurement
- Team Leader- Ms. Rina Shinde & Mr. Madugula Krishna Mohan

Cement Mill
- Team Leader-Mr. Jasmin Bhavsar

Digitalization
- Team Leader– Mr. Umesh Paliwal

Energy Review & Action Task Force

Energy Review meeting chaired by Unit head

Shop Floor awareness on Energy & Environment

Confederation of Indian Industry

Shop floor awareness among employees & workmen

CEMENT MILL

MPSS

TPP

COAL CRUSHER

Energy Awareness Measures :

1. In-house Trainings, Seminars and External Programs on ENCON .
2. Various competitions on Energy Conservation Program (Poster, Slogan, etc.) involving all Company employees, Contract employees, Housewives, School children etc.
3. Poster and flex banners displayed at various plant sites
4. Recognition & appreciation by distribution of Awards, token gift and Suggestion Schemes.

Activities on Energy & Environment awareness

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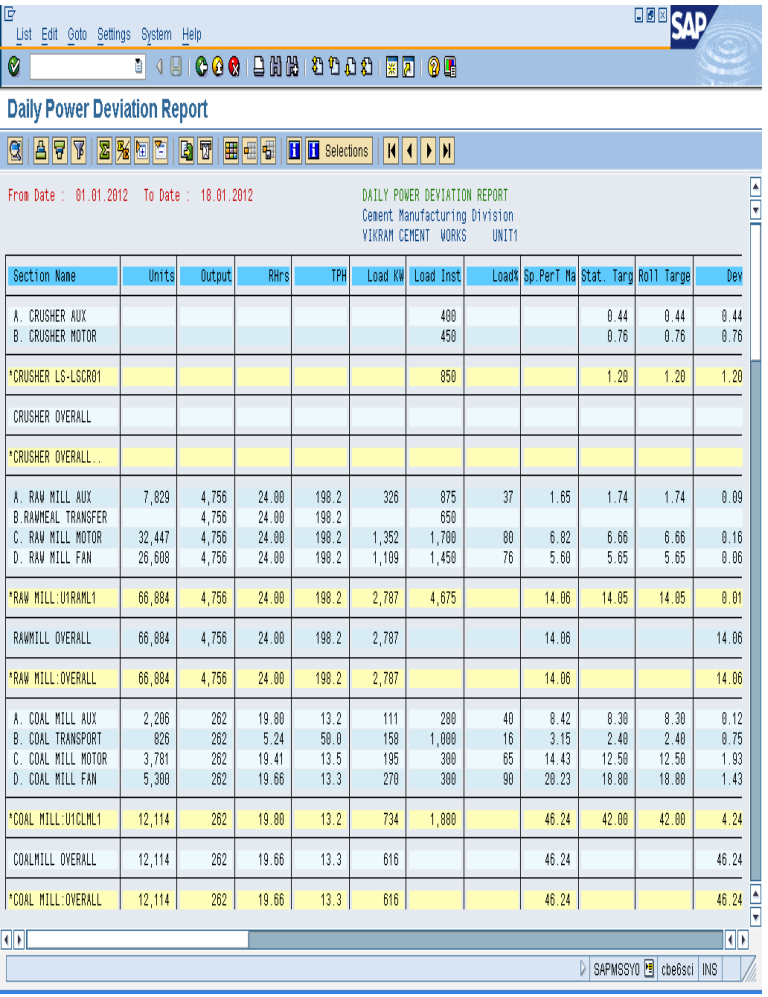
UH Rewarding Employees for their Participation

Communication on Energy

Awareness on Energy

Energy monitoring System & Format

Confederation of Indian Industry



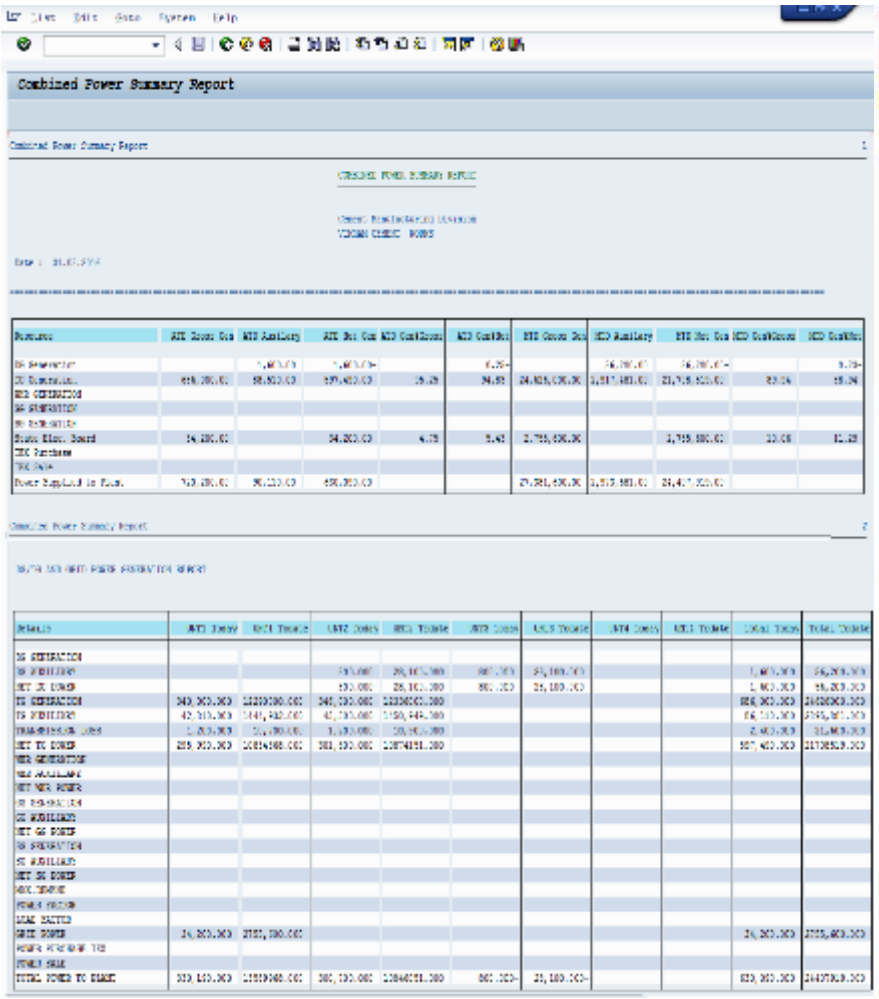
Daily Power Deviation Report

From Date : 01.01.2012 To Date : 18.01.2012

DAILY POWER DEVIATION REPORT
Cement Manufacturing Division
VIKRAM CEMENT WORKS UNIT1

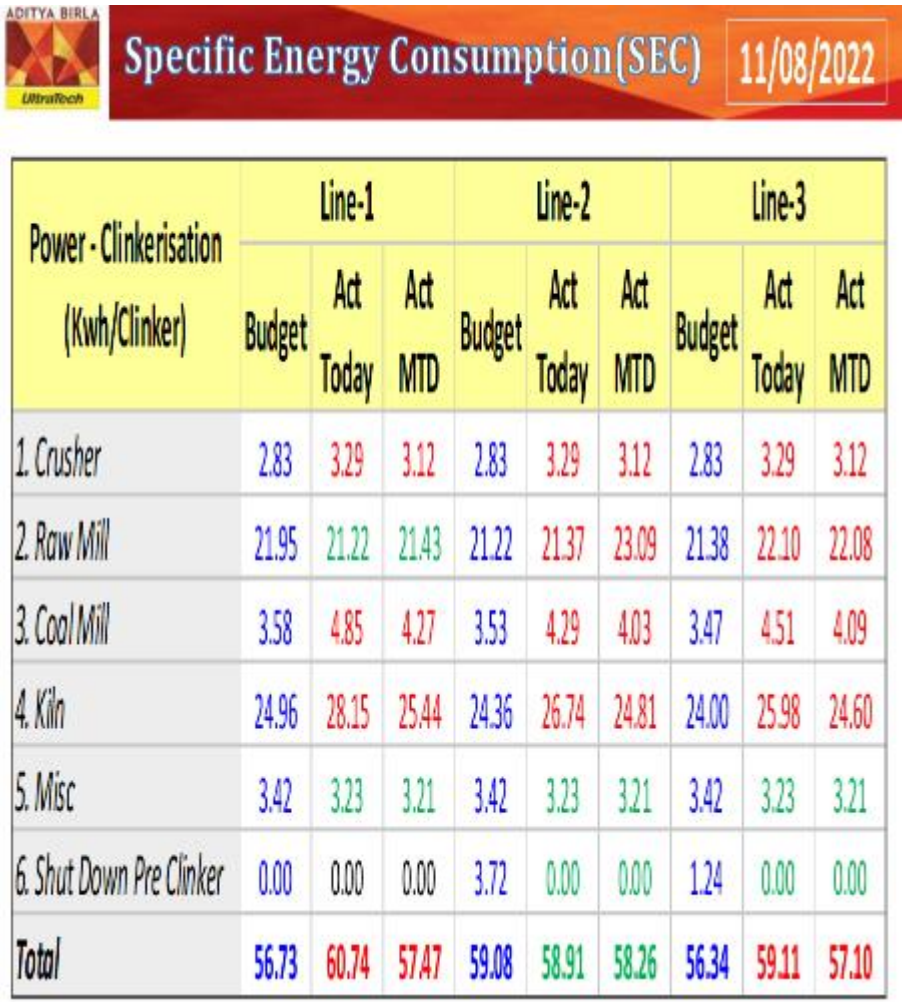
Section Name	Units	Output	RHrs	TPH	Load KW	Load Inst	Load%	Sp.PerT Ma	Stat. Targ	Roll Targe	Dev
A. CRUSHER AUX						400			0.44	0.44	0.44
B. CRUSHER MOTOR						450			0.76	0.76	0.76
*CRUSHER LS-LSCR01						850			1.20	1.20	1.20
CRUSHER OVERALL											
*CRUSHER OVERALL..											
A. RAW MILL AUX	7,829	4,756	24.00	198.2	326	875	37	1.65	1.74	1.74	0.09
B.RAWMEAL TRANSFER		4,756	24.00	198.2		650					
C. RAW MILL MOTOR	32,447	4,756	24.00	198.2	1,352	1,700	80	6.82	6.66	6.66	0.16
D. RAW MILL FAN	26,608	4,756	24.00	198.2	1,109	1,450	76	5.60	5.65	5.65	0.06
*RAW MILL:U1RAML1	66,884	4,756	24.00	198.2	2,787	4,675		14.06	14.05	14.05	0.01
RAWMILL OVERALL	66,884	4,756	24.00	198.2	2,787			14.06			14.06
*RAW MILL:OVERALL	66,884	4,756	24.00	198.2	2,787			14.06			14.06
A. COAL MILL AUX	2,206	262	19.80	13.2	111	280	40	8.42	8.30	8.30	0.12
B. COAL TRANSPORT	826	262	5.24	58.0	158	1,000	16	3.15	2.40	2.40	0.75
C. COAL MILL MOTOR	3,781	262	19.41	13.5	195	300	65	14.43	12.50	12.50	1.93
D. COAL MILL FAN	5,300	262	19.66	13.3	270	300	90	20.23	18.80	18.80	1.43
*COAL MILL:U1CLML1	12,114	262	19.80	13.2	734	1,880		46.24	42.00	42.00	4.24
COALMILL OVERALL	12,114	262	19.66	13.3	616			46.24			46.24
*COAL MILL:OVERALL	12,114	262	19.66	13.3	616			46.24			46.24

Daily Power Report – Through SAP



Combined Power Summary Report

Power Summary Report – Through SAP



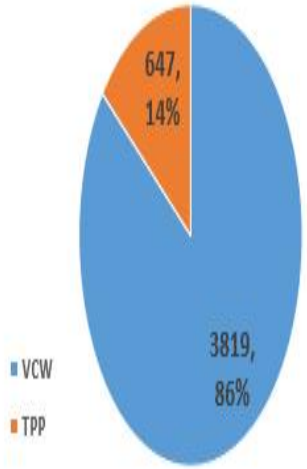
Specific Energy Consumption(SEC) 11/08/2022

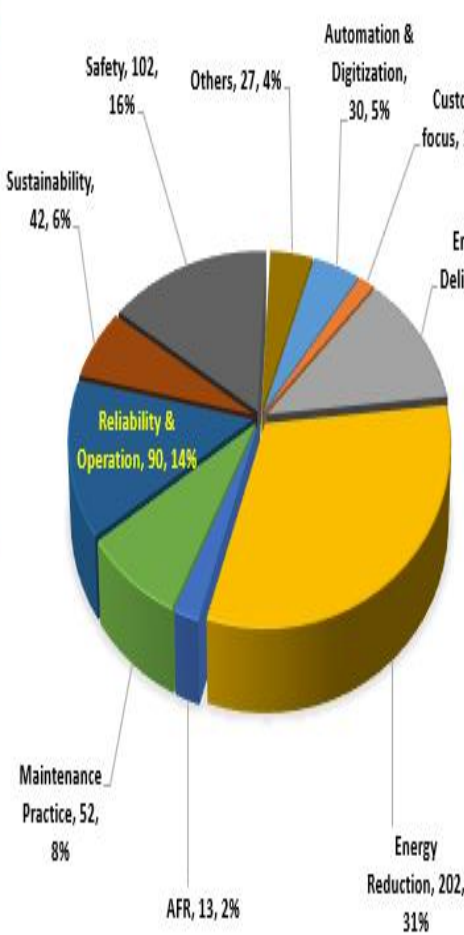
Power - Clinkerisation (Kwh/Clinker)	Line-1			Line-2			Line-3		
	Budget	Act Today	Act MTD	Budget	Act Today	Act MTD	Budget	Act Today	Act MTD
1. Crusher	2.83	3.29	3.12	2.83	3.29	3.12	2.83	3.29	3.12
2. Raw Mill	21.95	21.22	21.43	21.22	21.37	23.09	21.38	22.10	22.08
3. Coal Mill	3.58	4.85	4.27	3.53	4.29	4.03	3.47	4.51	4.09
4. Kiln	24.96	28.15	25.44	24.36	26.74	24.81	24.00	25.98	24.60
5. Misc	3.42	3.23	3.21	3.42	3.23	3.21	3.42	3.23	3.21
6. Shut Down Pre Clinker	0.00	0.00	0.00	3.72	0.00	0.00	1.24	0.00	0.00
Total	56.73	60.74	57.47	59.08	58.91	58.26	56.34	59.11	57.10

Daily Energy review in Production meeting

Team Work & Employee Involvement

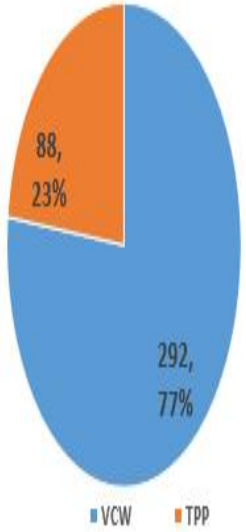
Hackathon- TPP Contribution



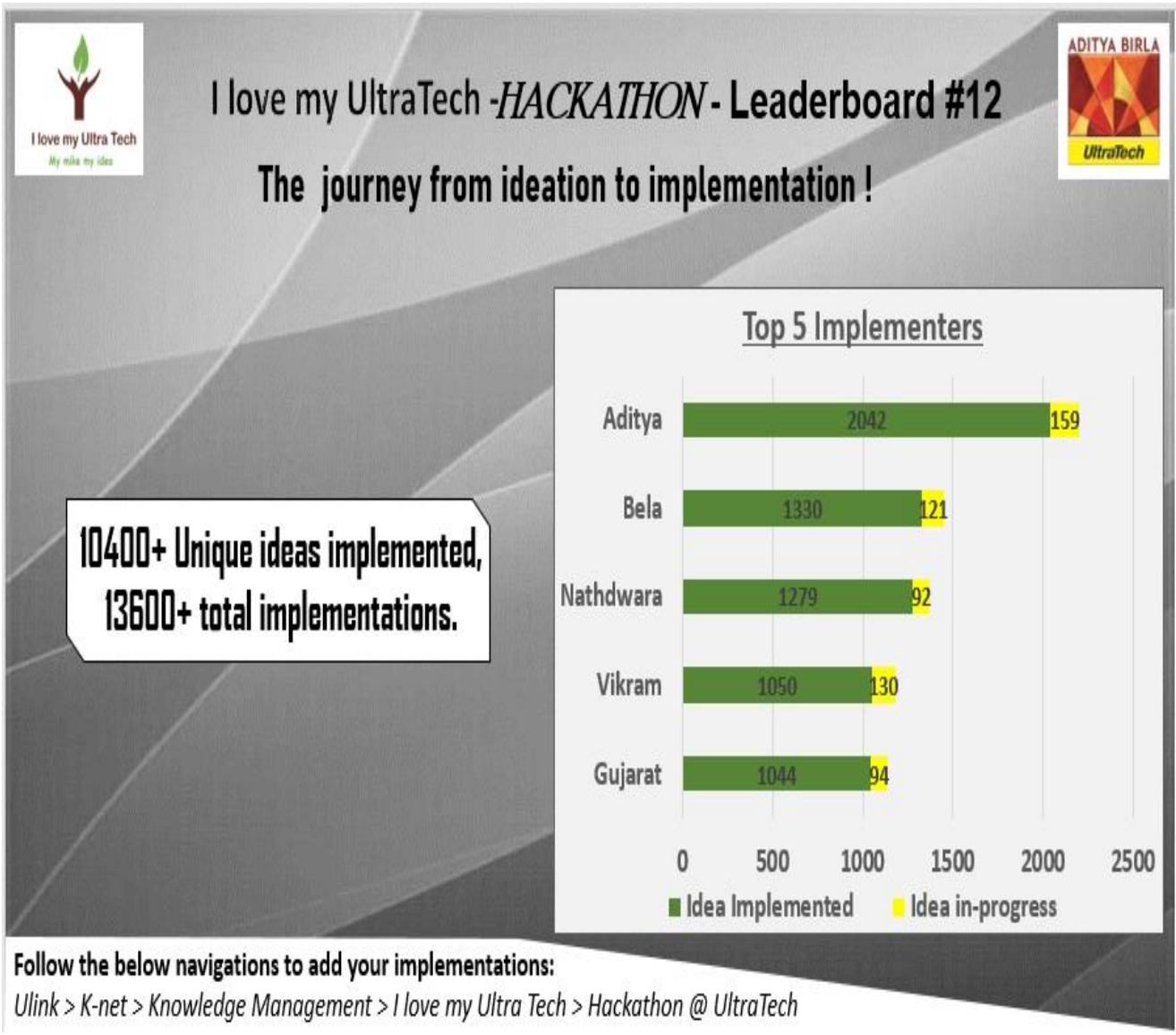


NOS OF IDEAS

Ideation Drive at Unit Level



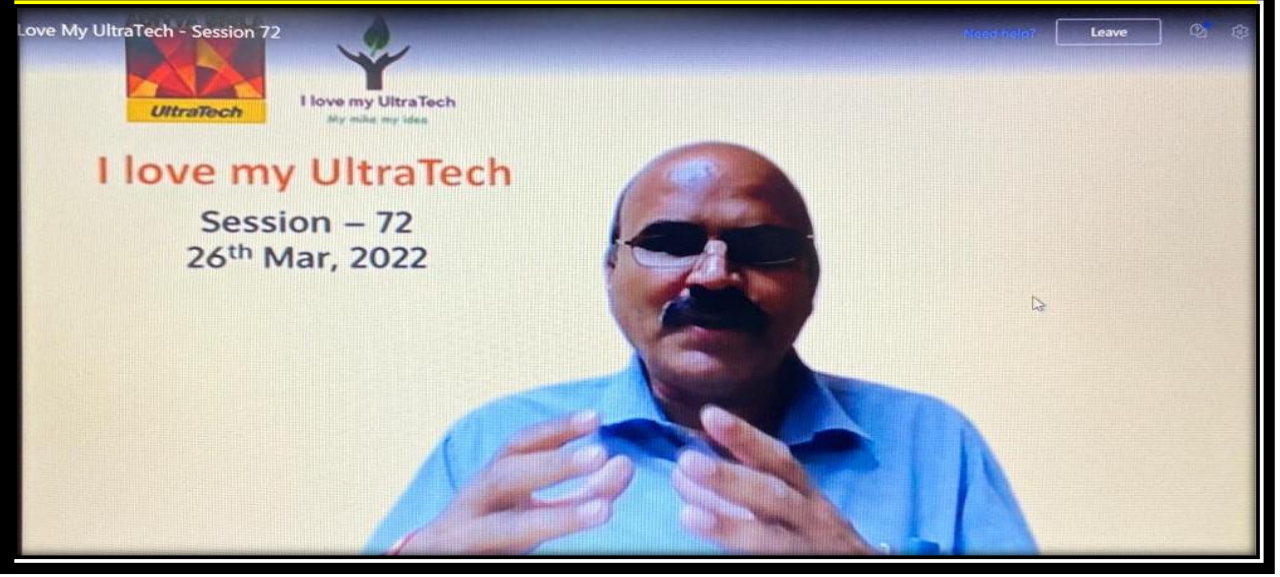
Brainstorming Session on digital and automation initiatives @ VCW



Virtual Platform for sharing & implementing best practices

Confederation of Indian Industry

- **Confluence is a software developed & utilised throughout UltraTech where all are able to see and share Suggestion & kaizens with other units.**



Sharing of Idea across UTCL at "I Love my UltraTech" Platform

Awards & Certifications

Confederation of Indian Industry

Confederation of Indian Industry

22nd National Award for
Excellence in Energy Management 2021

This is to certify that

UltraTech Cement Ltd, Vikram Cement Works, CPP

has been recognized as

"Energy Efficient Unit"

This acknowledgement is based on the evaluation by the panel of judges at the "National Award for Excellence in Energy Management" held during 24 - 27 August 2021.

K S Venkatagiri
Executive Director
CII - Godrej GBC

Ravichandran Purushothaman
Chairman, Energy Efficiency Council
CII - Godrej GBC

Vikram Cement Works received "National Award for Excellence in Energy Management 2021"

Sustainability Award -2020

Learning from CII & Other Award function

Confederation of Indian Industry

Learning :

Due to team effort, we were able to learned

- Improving knowledge of the process and new technology.
- Implementation of best practices learned from CII or other award function
- Learned Project planning & Execution, Application engineering,
- Increased technical competency of young engineers was added advantage.
- Enhanced uses of various QC tools, Analysis & presentation skill
- Reduced the project cost by utilizing internal resources and manpower

Sharing:

The Success Story of same shared among our group units of

UltraTech & Idea Sharing Platform " I Love My UltraTech"

"Alone we can think so little; together we can think a lot"

Thanks for Your Sincere & Kind Attention

Presented By:

UltraTech Cement Ltd

Vikram Cement Works