



25th **National Award for** 2024 Excellence in Energy Management

Vasind Works

JSW Steel Coated Products Limited Vasind

Presenter : Mr. Shravan Kumar – Energy Manager Mr. Nirutpal Saud- Assistant General Manager



Presentation Coverage



- 1. Introduction, Energy Team, Org Structure of JSWSCPL
- 2. Energy Consumption in last three years
- 3. Information on competitors, National & Global Benchmarking
- 4. Energy Saving Project Implemented in last three years
- 5. Innovative Projects implemented
- 6. Utilisation of Renewable Energy sources
- 7. Utilization of waste
- 8. GHG Inventorization
- 9. Net ZERO commitment
- 10. EMS and other requirements
- 11. Digitization & Industry 4.0 for Steel Industry
- 12. Stake holder involvement in energy efficiency
- 13. Beyond Steel Any certification, Training, Awards



Introduction



SCPL

100% Subsidiary of JSW Steel.



MAIN PRODUCTS

1. Galvanizing

2. Galvalume

3. Colour coated coil & sheets

4. CRCA

STEEL India's leading integrated steel producers

 Installed crude steel production capacity:~28 MTPA

CEMENT

- Manufacturer of Portland Slag Cement (PSC), Ordinary Portland Cement (OPC) and Ground Granulated Blast
- Furnace Slag (GGBS) Operational capacity of 14 MTPA



ENERGY

- Engaged across the value chain of power business
 Operational
- Operational capacity: 4.6 GW

FOUNDATION

- Social development arm of JSW group
- Footprint across 11 states and 15 districts reaching out to 1 million individuals

VENTURES

- Early-stage, techfocused, venture capital fund
- JSW Ventures' portfolio comprises of Indus OS, LimeTray, Purplle, Homelane and HealthPlix

INFRASTRUCTURE

- Engaged in development and operations of ports
- Operational capacity
 113 MTPA

PAINTS

SW PAINTS



- Annual capacity of 125 KL
- Only fully-automated, water-based plant in India

SPORTS





Vasind -2 MTPA





Organisation Chart & EMT







Unique Features







2. Energy Consumption Mapping





	Power	Power	RLNG	RLNG	Energy in	D	
Area	Area (Lac kWh) (Gcal) (Lac MMBtu) (GCal) Gca		Gcal	Energy Sources			
Pre-Rolling	114	9819	3.69	93196	103015	RLNG (GAIL)	Electrical Power (OA)
Rolling	1035	88978	0	0	88978		
Galvanizing	794	68308	8.52	214593	282901	18 Lacs MMBtu/A	Lac kWh/A
Colour Coating	219.7	18894.2	2.39	60315	79209	440775 GCal/A	224518 GCal/A
CAL	226	19472	2.87	72379	91851		
Auxilary	221	19047	0.01	292	19339	Total : 6652	293 GCal
Grand Total	2609	224518.2	18	440775	665293		



2. Specific Energy Consumption in last three years





Electricity Lakh Kwh







2. Specific Energy Consumption in last three years

Perform Achieve Trade (PAT) Cycle



PAT-1					PAT-2					
Energy	Consumption (N	/ITOE/T)			Energy Consumption (MTOE/T)			Frankry Courts		
Notified	Notified Target	Achieved and Verified	MTOE	Awarded	Notified	Notified Target	Achieved and Verified	Energy Saving MTOE	ESCerts Recommended	
0.0594	0.0575	0.0545	2042.3	1875	0.044	0.0414	0.042	0	-294	

Specific Energy Consumption MTOE/t



SEC Reduction in PAT-1 8.2%

3. Information on Competitors /National & Global Benchmark

Confederation of Indian Industry Benchmarking - Electrical SEC (kWh/t) Electrical Benchmarking - Thermal SEC (M Kcal/t) SEC(Kwh/t) 35000 TATA BSL Data 30847 300 from CII ppt of 30000 246 FY'23 25973 250 25000 178 200 20000 17400 17300 154 153 150 15000 100 10000 5000 50 0 0 JSW Vasind JSW Tarapur JSW Kalmeshwar TATA BSL JSW Vasind JSW Tarapur JSW Kalmeshwar TATA BSL PAT SEC Target (Mtoe/t) (The Gazette of India- CG-DL-E-29102021-230808) 0.08 0.0591 0.06 0.0377 0.0376 0.0324 0.04 0.0222 0.02 0 JSW Vasind JSW Tarapur JSW Kalmeshwar TATA BSL Raigad JSL Hisar

4. Energy Saving project implemented in last 3 years



ENCON Measures FY 22

SV

	Electrical Savings	Thermal	Savings	Investment	Payback
ENCON Measures	(kWh)	Savings (GCal)	(Rs Million)	(Rs Million)	(Months)
Installation of 1.3 million ton PLTCM with advance energy efficient technology	5000000	0	40.5	100	29.6
Fixed power optimization by speed increased from 65 to 100 mpm	1875000	0	15.2	70	55.3
CGL-1, Br5 M1 and Recoiler Motor cooling blowers replaced with low power high efficiency blowers.	25538	0	0.2	0.2	11.6
Reduction in Compressor Power by 1700 kWh/Day. A. Installation of Flow meter in air lines B. Leakage arrest at all unit. C. effective loading /unloading setting.	561000	0	4.5	0.7	1.8
Installation of pyrometer and close loop control of Induction oven and blower	340000	0	2.9	0.5	2.1
Total	7801538	0	63.33	171.40	4.4

With implementation of above measures we have saved 6708 Gcal of total energy & mitigated 6319 tCO₂ in FY:22

4. Energy Saving project implemented in last 3 years

ENCON Measures FY 23



		Pote			
Objectives (FY-23)	kWh/A	RLNG (MMBtu/A)	G Cal/A	Rs Lac/A	Investment Required Rs Lac
Rectify the steam traps and increase the condensate recovery (2% Reduction in RLNG)	0	4080	1028	84	50
Install ControlAiR Intelligent Flow Control (IFC) System for air compressors (10% Red in Compressor Power)	620500	0	534	43	100
Replacement of Old inefficient motors with IE3/4 Motors (4% Red)	79200	0	68	6	20
Replacement of CT/LT of 5 nos. Old cranes slip ring control with VFD (20 Units/Day)	36500	0	31	3	25
CGL-2 CAG D1 blower replaced with high efficiency blower	323000	0	278	23	15
CRM-3 Fume Exhaust blower replaced with high efficiency motor	269000	0	231	19	15
CRM3-Conversion of DC to AC motors and speed increased from 450 to 1400 mpm to optimize power & increase productivity.	1250000	0	1075	88	6000
HBR and Calm section heater auto control	253440	0	218	25	10
DC to AC drive conversion system at RW 4	6558	0	6	0	60
Total	6870198	4080	6936	572	3795
With implementation of above measures we have sa	aved 6936	Gcal of to	tal energy &	k mitigated	

4. Energy Saving project implemented in FY'24

4. Energy Sav ENCON Measures FY 24



			Potential S	aving	Confederation	of Indian Industry
Sr.N o	Objectives (FY-24)	kWh/A	RLNG (MMBtu/A)	G Cal/A	Rs Lac/A	Investment (Million INR)
1	Replacement of CT/LT of Old cranes slipring control with VFD (CGL1 202	21900	0	18.8	2.0	0.5
2	CRS 1 - DC to AC conversion	184512	0	158.7	16.6	10
3	Installation of IIOT Based Predictive Maintenance Solutions	2686474	0	2310.4	241.8	8
4	CRM-4 cooling tower stopped and water taken from centralized cooling tower system	164250	0	141.3	14.8	0
5	CGL-3 Speed enhancement from 180 to 200 mpm	110477	0	95.0	9.9	0
6	Idle power consumption reduction at Plant Level:CCL3,CAL & PLTCM	3906986	0	3360	35.2	0
7	Installation of New RTO at CCL 2.	6426	25500	6426	300	55
8	Steam Optimization and Energy Efficiency Enhancement at PLTCM.	50000000 0	1296.65	326.76	12.32	8.2
9	Optimization of induction oven KW while line processing PPGL/PPGI material at CGL-3.	300000	0	258	24	0
	Total	6653763	26796.65	13095	656	81.7
W	lith implementation of above measures we have saved 13095 Gcal	of total ene	ergy & mitic	gated		

4. Energy Saving project implemented in last 3 years

Continual Improvement



 No. projects

 10
 9
 9

 9
 9
 9

 8
 7
 6

 5
 6
 5

 4
 9
 9

 2
 1
 1

 0
 FY21-22
 FY22-23

 FY23
 FY23-24







With the implementation of energy saving projects saved 26739 Gcal of total energy & mitigated 19100 tCO₂ in last three years

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Confederation of Indian Industry



4. Energy Saving project planned for FY'25



			Savi	ing	Annual Energy	Annual
Sr.No.	Process	Energy Saving Measures	Power	RLNG	saving	Monetory Saving
			kWh	mmbtu	GCal	Rs
1	PLTCM	Steam Optimization and Energy Efficiency enhancement at PLTCM	36964	4604	1192	4324212
2	PLTCM	Switching off1 Compressor If CGL4/ CGL3/ PLTCM Line is down. Only 3 compressors will run	72000	0	62	576000
3	PLTCM	VFD Installation for MCC Blowers : Strip Dryer-2 nos, Blow off /Ventilation etc.	154113	0	133	1232904
4	PLTCM	VFD Installation for 75 Kw Scale breaker Exhaust Blower	65992	0	57	527936
5	PLTCM	Idle power consumption optimisation	3906986	0	3360	31255888
6	PLTCM	LP system trails to be taken with 4 pump instead of 5 pumps	695765	0	598	5566120
7	PLTCM	HP system trails to be taken with 4 pump instead of 5 pumps	749285	0	644	5994280
8	PLTCM	Entry LP system trails to be taken with 4 pump instead of 5 pumps	508443	0	437	4067544
9	Vasind	Replacement of V belt at with cogged/Flat belt	141120	0	121	1128960
10	CMR3	IR Compressor:- This compressor along with two no's of Atlas compressors are used to cater compressed air requirements of CGL#2 , CRCA , Rolling & Pre-rolling section	98885	0	85	791080



4. Energy Saving project planned for FY'25



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			Saving		Annual	Annual
Sr.No.	Process	Energy Saving Measures	Power	RLNG	Energy saving	Monetory Saving
			kWh	mmbtu	GCal	Rs
11	CGL1&2	Reduce the radiation loss of furnace in CGL-1&2	0	11158	2812	9763250
12	CGL 3 &4	Hot air dryer auto-off while SPM is offline	381600	0	328	3052800
13	CGL 3 & 4	Coater blower auto control with pyrometer	72000	0	62	576000
14	CGL 3&4	Coater blower and oven control at max 10% while coater unit is not in use	2058000	0	1770	16464000
15	CGL 3 &4	CAG blower rmp control at 30% capacity when line speed is below 35 mpm.	3720000	0	3200	29760000
16	CAL	N2-H2 auto control to Reduce the hydrogen and Nitrogen consumption			0	0
17	CGL2	CAG D1 blower to be replaced with high efficiency blower	323000		278	2584000
18	CGL2	Installation of Inverted U type furnace at CGL 2	0	16800	4234	14700000
19	CCL-3	Looper (both) lubrication pump to be stopped after 30 minutes of line stoppage	4320	0	4	34560
20	CCL-3	Hot Air blower to be stopped after 30mint of line stoppage	21600	0	19	172800
21	CCL-3	Uses of finish coat T3 Head	500000	7500	2320	10562500
22	Plant Leve				3467.5	36288000
		Installation of roof top solar panels in Opex model at Vasind	4032000	0	0.07.0	
		Total	17542073	40062	25184	179422834
		Impact on SEC			2.21%	

With implementation of above measures we will be able to saved 25184 Gcal of total energy & mitigated 13952 tCO₂ in FY:25





Project-1. ENERGY SAVING FROM OPTIMIZATION OF IDLE POWER CONSUMPTION IN PLTCM LINE

PLTCM is Consuming 35 percent of Total power in Plant So, for Optimization with Zero Investment this Step has been Taken.







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Energy Savings (in Kwh) after switching off Non-essential Pumps, blowers Compressors & Power Packs In SSD and breakdowns

Poforo	Month	SSD (Hrs)	PLTCM Unit	Production MT	Sec Kw/t	Energy Unit	Cost Savings	
SOP Impleme		(1113)	consumption(kwii)			(Kwh)		After Manual
ntation	FY'23	486	63223600	779455	81.3			Idle power SOP
	FY'24	438	74065640.2	992837	74.6	6652008	5987	 Implemen tation
	FY'25 (Upto Aug-24)	186	30411693	433215	70.2	1906146	171.5	After Logic based idle
	FY'25 (ABP) Projected			1140000		5016000	451.4	power SOP Implemen

Logic based Idle power sop has been implemented in all process units and 1.5 % reduction in total power consumption is projected to be achieved in FY'25

JSW

5.Innovative Projects Implemented



Project-1. ENERGY SAVING FROM IDLE POWER CONSUMPTION IN PLTCM CLINE ion of Indian Industry

Equipment'sInitiativePLTCMIn PLTCM HMI Screen Modified for Idle power and Power saving monitoring during SSD and Long
breakdowns . Logic based SOP Implemented and horizontally deployed to all process units. Pic
Attached





Project-2. Installation of Inverted U-type furnace





- 1. The Specific Energy Consumption at Galvanizing lines with(L type furnace) was on higher side
- 2. With the installation of Inverted U type Furnace and in-line skin-pass mill at our newly commissioned CGL 3 & 4 line the SEC has reduced tremendously.
- 3. Reduction in SEC by 0.04 Gcal/t (10338 Gcal/A)
- 4. Quality and productivity improved and Reduction in CR Scrap by 50% as compared to CGL with L-type furnace
- 5. 3 out of 4 CGL unit converted to efficient U-type furnace and one is under progress, will be completed in FY'25

Looper Welder	Unit	CGL(L-type Furnace)	CGL(U-type Furnace)	
Cleaning	Power SEC (Kw/t)	112.67	83.4	29.27
Cll National Award for Excellence in F	RLNG SEC (MMBtu/t)	0.80	0.71	0.09





Project-3: Optimization of induction oven KW while line processing PPGL/PPGI material





20 % of total GI/GL produced goes for further processing at CCL line as PPGI/PPGL finished goods, during which chemical coating is not required. So it's induction oven and blowers power can be optimized.



Project-4: Installation of IIOT Based Predictive Maintenance Solutions Confederation of Indian Industry 1. Business problem:

PLTCM with total capacity of 1.3MTPA and CGL-3,4 with 1 MTPA, is critical for achieving the ABP of Vasind coated business for that line utilization should be maximum and unplanned failure should be minimum we didn't had CBM for monitoring of equipment condition and identify problem before resulting them into unplanned downtime which was impacting the line utilization and productivity

2. Solution:

Installation CBM sensors and system for monitoring of equipment condition and identify problem before resulting them into unplanned downtime which can impact line utilization and productivity

Plant : JSW Steel Ltd C /asind_PLTCM		Total Machine Groups: 9	Total Machine	es: 53	Total Monitoring L	ocations: 284
						Q
		Machine Name	Overall Health Score @	Vibration Trend	Instantaneous Status Ø	Health Trend
		> Rinse Fume Ex Blower 1	10%	Significant rise	•	Stable
		> Bridle 2 B	13% Reported on 30 Dec 23	Significant rise	•	Deteriorating fast
		Pickling Fume Ex Blower	24% Reported on 23 Nov 23	Significant rise	•	Deteriorating fast
 Idle Operational Caution 		> TCM Fume Exhaust Blower-1	34% Reported on 05 Jan 24	Minor rise	•	Deteriorating fast
 Warning Disconnected 		> Bridle 2 A	39%	Significant rise	•	Deteriorating fast
		> Bridle 6 A	40%	Significant rise	•	Deteriorating gradually
		> Scale Breaker scale suction blower	42%	Significant rise	•	Deteriorating gradually
		> Carousel Reel_Gearbox	43% Reported on 23 Nov 23	Significant rise	•	Deteriorating fast
		> TCM Fume Exhaust Blower- 2	45% Reported on 13 Jan 24	Significant rise	•	Deteriorating gradually

3. Benefits:

and Utilities

Investment: 0.55 Cr

Continuous monitoring of equipment health and condition and Analysis based Diagnostic Alert incase any equipment condition deteriorate from the baseline limit so that action can be taken before resulting it into a unplanned downtime.

4. Status:

Project Started : 18th-Nov-22 Observation period : One Year Present status : Completed

Saving: Reduced down time and increased productivity which resulted in Energy consumption reduction of 2686474 Kwh/Annum and resulted in financial saving of 241 Lakhs INR

Predictive Maintenance using infinite uptime at PLTCM, CGL-3 &CGL-4									
Sr No	Unit	Down time Saving (Hrs)	Production (t)						
1	PLTCM	95	24161						
2	CGL-3	94	3384						
3	CGL-4	165	9900						

6. Utilization of renewable Energy Sources

Renewable Energy generation









Use of Transparent Sheet for natural lighting in plant

Use of ECO -VENTILATOR

Rain Water Harvesting

Financial year	Technology (Electrical)	Type of Energy	Onsite/ Offsite	Solar System (kWp)	Solar Power (kWh)	Total power used Million kWh	% Used
FY 21	PV	Solar	Onsite	5.5	92294	85.5	0.11
FY 22	PV	Solar	Onsite	5.5	90294	186.2	0.05
FY 23	PV	Solar	Onsite	5.5	90294	188.2	0.05
FY 24	PV	Solar	Onsite	5.5	90294	188.2	0.05

Installation of Root Top Solar Panels JVM School and

cafeteria

	Captive Power Consumption (JSW Energy+DG Set+CPP)	Applicable Composite RPO	Applicable Renewable Energy Certificates	M	
FY	Vasind	Vasind	Vasind		
	MU	MU	Nos	0	
FY 2020-21	95.54	9.62	9618		
FY 2021-22	186.22	19.08	19079		
FY 2022-23	218.91	22.49	22487	Ins	
FY 2023-24	268.82	27.61	27614		
Total	852.70	87.27	87265	2024	

Actual FY : 21-22	Target FY- 23	cumulative FY: 22-23	Target FY- 24	Actual FY- 24
Specific	Specific	Specific	Specific	Specific
Water Consumpt	Water Consumpt	Water Consumpti	Water Consumpti	Water Consumpti
ion	ion	on	on	on
M3/MT	M3/MT	M3/MT	M3/MT	M3/MT
0.26	0.37	0.23	0.26	0.29
	71 0 1		~	

Installed ZLD unit of 1500 KLD and achieved 45% reduction in fresh water consumption



7. Waste Utilization and Management



S. No.	Year	Waste Details	Quantity	GCV kCal	Heat Value M kCal	Waste as percentage of total fuel
1	2019-20	Paint VOC	5246	7000	36722	16.32
2	2020-21	Paint VOC	5409	7000	37863	16.06
3	2021-22	Paint VOC	8388	7000	58720	13.83
3	2022-23	Paint VOC	9638	7000	67466	12.42
3	2023-24	Paint VOC	10560	7000	77586	10.82





*VOC- Volatile organic compound



8. GHG Inventorization

Sr No	Detail of Area	Green Zo	ne	Area Mti	(Sq r)	Tot Tre	al es	Shrub s	Lawn Sq Mtr
1	Factory inside			406	76	180	00	8500	25800
2	R.C Farm House House	, Guest		914	75	250	00	8000	85000
3	SVTC, Other op	en Space		420	00	35	0	100	1500
4	Colony 1,2,3			218	66	65	0	1500	21866
5	Miyawaki & Bio	diversity Park		242	76	244	74	6800	24276
				2202	293	297	74	24800	158442
As on Date>85681Total Tree planted $- \rightarrow$:CO2 t / year Offset:			1 1 3	7235 1 53132 80626.4	102	555		Calcul base Carbon 5 trees f of CO2	ation d on ify.com or 1 ton /year
GHg Emission Scope 1 Kg Co2/t 90 81.2 79.9 76 72 65 60 60 60 60 60 60 60 60 60 60 60 60 60 6			200 150 100 50 0 F	GHg En 174 Y-20	nission 170 FY-21	Scop 163 FY-22	e 2 Kg Co 153	52/t 133 FY-24	



Sustainability and GHG CO2 emissions

Target to reduce the CO2 Emission by 3% in FY-25 and to become Carbon neutral plant by Fy-30, by adopting following initiatives-

- 1. Conversion of DC to AC for both the Old Cold rolling Mills- FY-23(CRM-3 revamping completed)
- 2. Installation of 35 MWp Solar power plant by JSW Energy for coated business-FY-25
- 3. Use of Hydrogen in Furnace
- 4. Replacement of all the old AC motors with IE-3 Motors- FY-26(more than 70% motors are IE3/4)
- 5. Plantation of 500000 trees till FY-30 every year -5000
- 6. Miyawaki & Bio diversity Park 24474 trees of 35 verities have been planted in FY'24 on 6 Acre land allotted by Forest dept.

We report GHG data to JSW group's headquarters every year, same is being reported in Annual JSW-Climate-Action-Report

9. Roadmap towards Net-Zero emissions – Carbon Neutralit

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Parameter	Unit	VASIND	Reduction in 10% Energy Consumption	Replacement of 59% Electrical Power by Renewable Energy	Reduction in 13 % GHG emission using Bio-Gas	Reduction in 1 % GHG emission using CCU	Reduction in 29 % GHG emission using Green Hydrogen	Reductio n in 1 % GHG emission using Carbon offset	Final Carbon Emission
CO2	tCO2	4,00,539	- 37,023	- 2,13,736	-51,418	-7,458	-1,02,693	4,143	0
Emission	%	100	10	53	13	1	26	1	0
Energ Efficio 37,02	y ency- 10 23 tCO2	0% Re En 2,:	Benewable 5 hergy - 53% 13,736 tCO2	Carbon io-Gas- 1 % 1,418 tCO2 7,458 tCO	Hydrogen- 2 CCU)- 1 % 1,02,693 tC 2	29% Carbon 02 Offset-1% 5,723 tCO2	arget - 2030	ACHIEVE CARBO	DN

9.Roadmap towards Net-Zero emissions – Carbon Neutrality



0.250 Specific GHG Emission, tCO2/ton of equivalent product Month Reduction, Project TCO2/TCS Year 0.213 53 MW Solar 0.200 Aug-26 0.065 Renewable 0.024 power 0.026 0.150 FY26 CCU 0.003 Energy FY23-FY30 0.025 Efficiency 0.047 0.100 Hydrogen use in 0.028 FY27 0.015 furnace - CDS5 0.050 0.033 Hydrogen use in FY28 0.014 0.020 furnace 0.000 Hydrogen use in 0.040 FY29 0.021 furnace FY28 RE part-2 0.043 -0.050 FY 23 FY 24 FY 26 FY 27 FY 25 FY 28 FY 29 FY 30 FY29 RE part-3 0.032



10. EMS and Other requirements

ISO System Implementation







10. EMS and Other requirements

ISO System Implementation





DCN : JJ-EnMS-PR-01, Rev.1, Effective from 1st Oct,2021





10. EMS and Other requirements

Energy Monitoring System



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11. Digitization & Industry 4.0

CURRENT STATE











Logistics

AI based Safety





Predictive Maintenance



11. Digitization & Industry 4.0



		Digitalization Road Map 2023	- 2027: VASIND	Confederation of l	adion Inducto			
	2023	2024	2025	2026	2027			
		IOT based Predictive Maintenance						
Manufactu ring		Compressed Air Optimisation						
		Robotics - Dross removal & Sleeve loading						
		Process optimisation using Big Data/ AI ML (P Platform for Data Visualization a						
		Roll Shop Manageme						
		APS - Advance Planning and Scheduling	g Algorithm					
РРС	MES							
		ICT - Dash board						
Logistics		YMS						
Logistics		Intry						
		Inventory - digital monitoring an						
Finance			Costing Auto	mation				
		EC Dashboard	Profitability A Dashboa	Analysis ard				
		AI enable Safety & Security - S	Shark Project					
Safety			Visitor and Employee - Gate Management					
Quality		Surface inspection system (SIS) - CAL & CCL 2						
		DFT measurement at CCL 2						
			Contractor Management	system				
HR			Online Skill and Competency M	apping system				
		Training and employee mai	nagement					



12. Stake Holder Involvement



Stake Holders	Initiatives
Employee	Energy Awareness, Paper less Invoicing, e-NFA,
Customer	Awareness, product catalogue, CCMS Customer Audit, Desk top Audit, Google meetings
Supplier	ARIBA, EnMS –ISO 50001, Energy Efficient procurment
Society	Awareness – Skit, Training

LED CONVERSION - CSR							
Impac t	Quantity	Power Consumpti on	Saving				
BEFOR E	Total HPSV Lights Installed 1800 Nos.	173 kW	Power Saving 4.54 Lacs kWh /				
AFTER	Installed LED Lights 958 Nos.	84 kW	Annum Potential saving Rs.26.37 Lacs/Annum				





12. Stake Holder Involvement – Employee





Energy awareness



Energy week Celebration





Energy week Celebration





Energy Conservation Skit





Energy Exhibition



Energy Quiz











13. Beyond Steel : Awards & Certification



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FY	Name of Award	Location	year	Awarded by
FY24	Received 2 nd Runner-up award for CII National Energy Efficiency Circle Competition 2023	Vasind	July-23	CII
FY23	Received "Gold" position for SEEMs National Energy management 2022	Vasind	Sept-23	SEEM
FY23	2 Teams won "Par Excellence", 2 Excellence, in National Convention On Quality Concepts (NCQC - 2022) held at Aurangabad. There were about 2200 Teams from all over India.	Vasind	Dec'22	QCFI
FY23	23rd National Energy Award for Excellence in Energy Efficient 2022- Vasind has been recognized as "Excellent Energy Efficient Unit"	Vasind	Sept, 2022	CII, Hyderabad
FY24	24th National Energy Award for Excellence in Energy Efficient 2023- Vasind has been recognized as "Excellent Energy Efficient Unit"	Vasind	Sept, 2023	CII, Hyderabad
FY23	Gold Medal in India Green Manufacturing Challenge 2021-22 & 1st Runner Up IGMC Apex Award.	Vasind	April, 2022	IRIM , Chennai
FY23	Platinum Award - Apex India Green Leaf Award 2021 for Energy Efficiency	Vasind	April, 2022	Apex India Foundation, Delhi
FY23	Received 2 nd Runner-up award for CII National Energy Efficiency Circle Competition 2023 Received "Gold" position for SEEMs National Energy management 2022	Vasind	July-23 Sep-23	CII SEEM
FY24	4 Teams won ENERGY WARRIOR 5 STAR AWARD with the Theme of Energy Conservation.	Vasind	July,2024	QCFI



What we Earn is not important, but what we Save is most important...

Conserve Energy ..!!!! Save Earth....!!!



Thank you