

**PRESENTATION ON 25<sup>th</sup> NATIONAL AWARD FOR EXCELLENCE  
IN ENERGY MANAGEMENT**

# **Panasonic**

**PANASONIC LIFE SOLUTIONS INDIA PVT LTD.  
Unit-04, Daman**

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# Panasonic

Life Solutions India Pvt. Ltd.

(Formerly known as)

**Anchor Electricals Pvt Ltd.**

A global enterprise that manufactures cutting edge electrical products

**Not just a  
Switches  
Company !!**

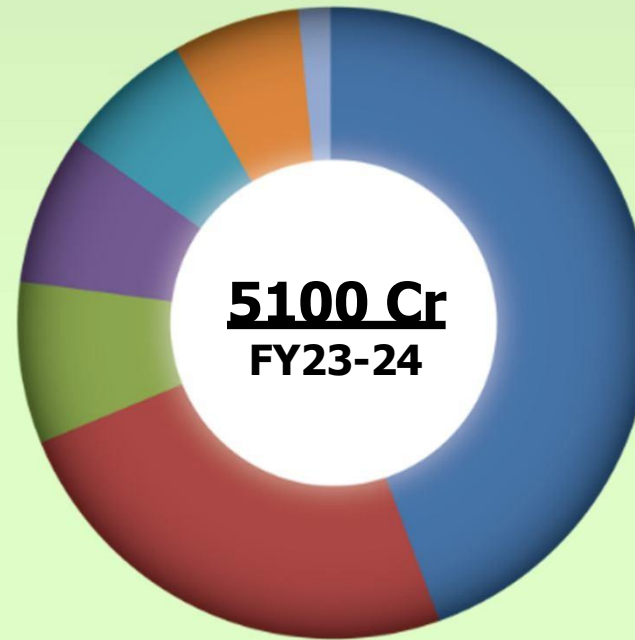
Established 1963



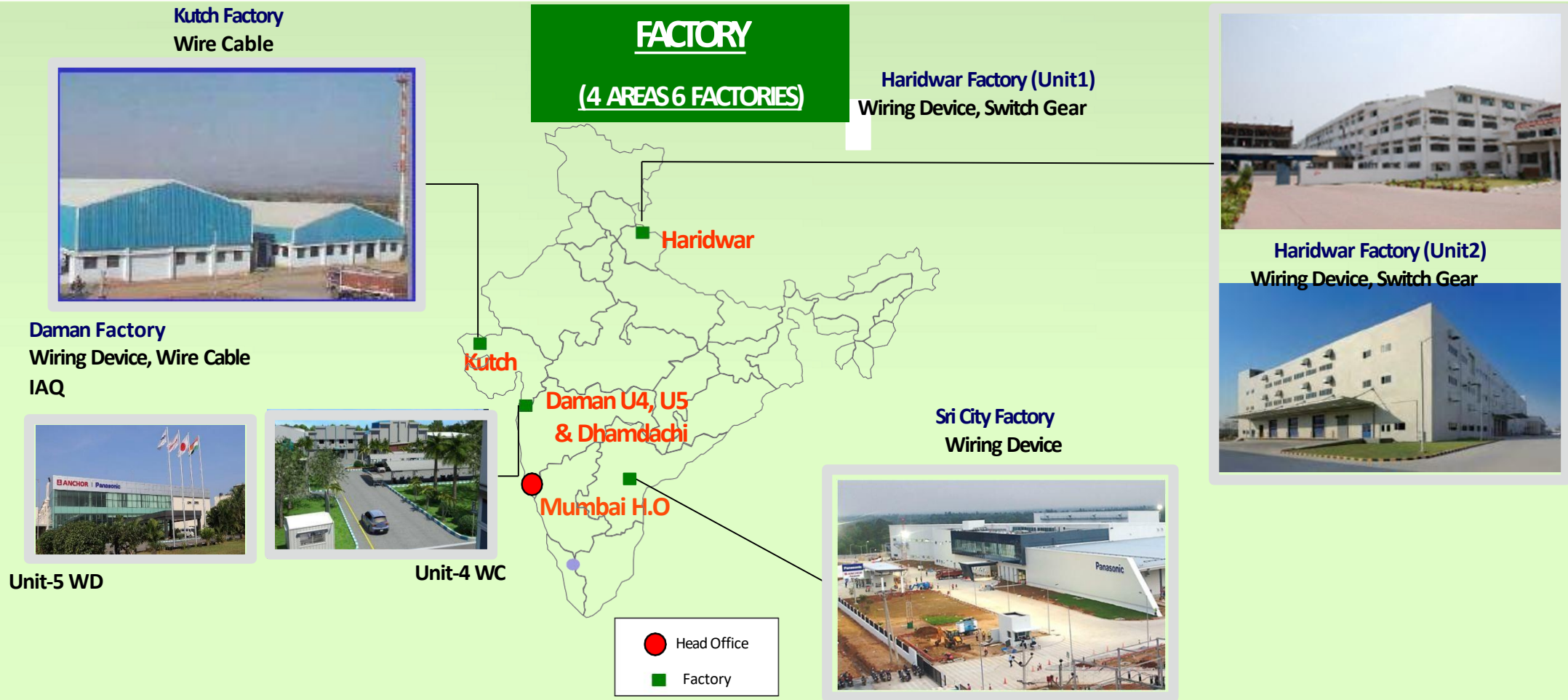
Revenues Million USD 501+



Organization Strength 9000+



# PEWIN FACTORIES OVERVIEW

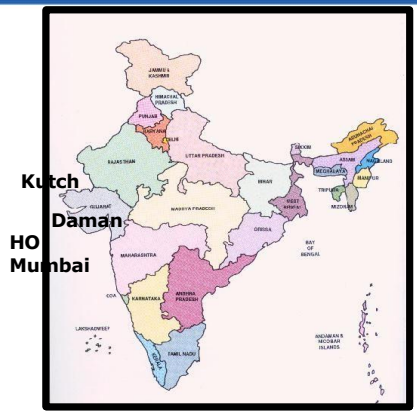


# Unit profile

## COMPANY PROFILE



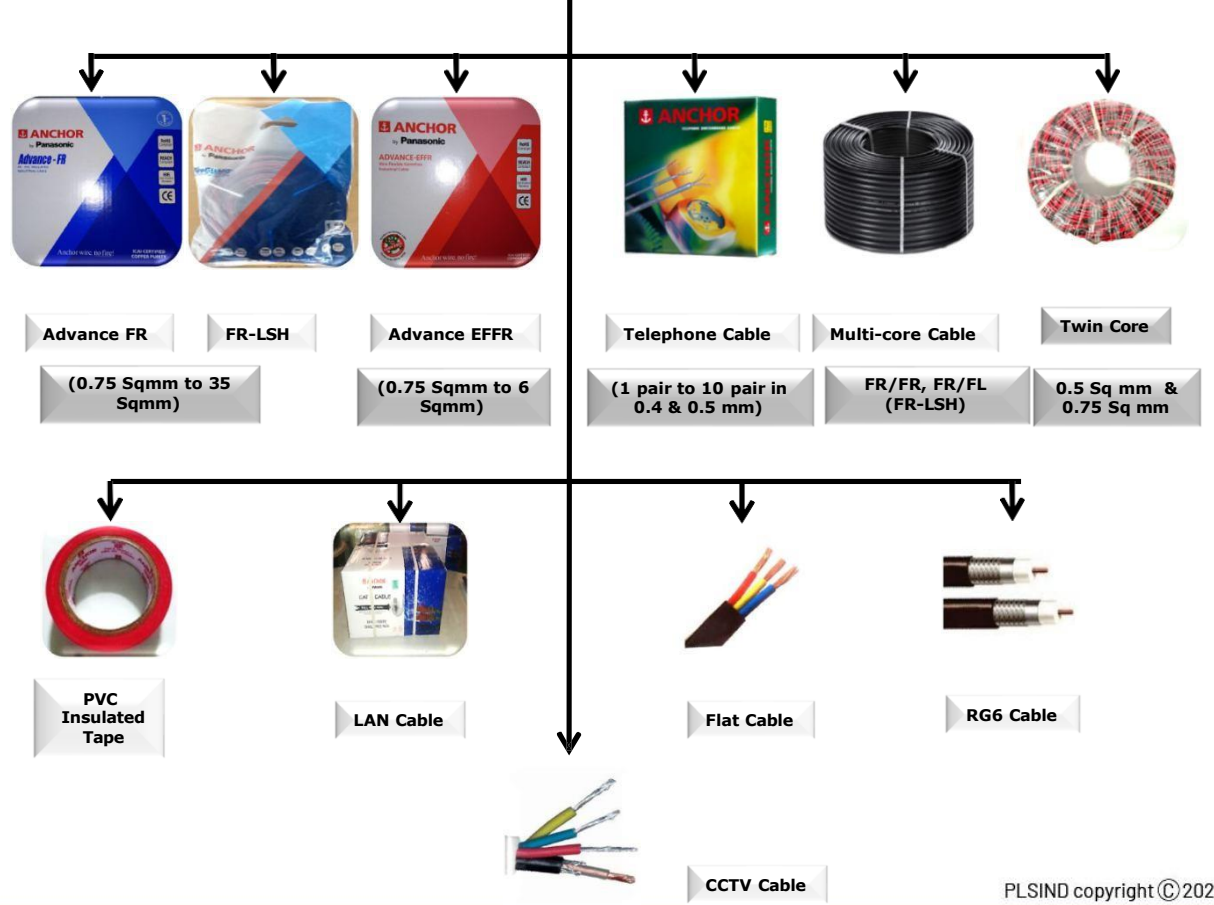
Established in : 1963  
 Head Quarter : Mumbai (INDIA)  
 Factories : 10 (6 regions)  
 No. of Employee : 10000(approx.)  
 No of Dealers : 4000(approx.)



## POWER COMPONENT BU

<b>WD</b> Lighting & Luminary BU	<b>WC</b> IAQ BU	<b>SWG</b> Solar BU

## WC Product Portfolio



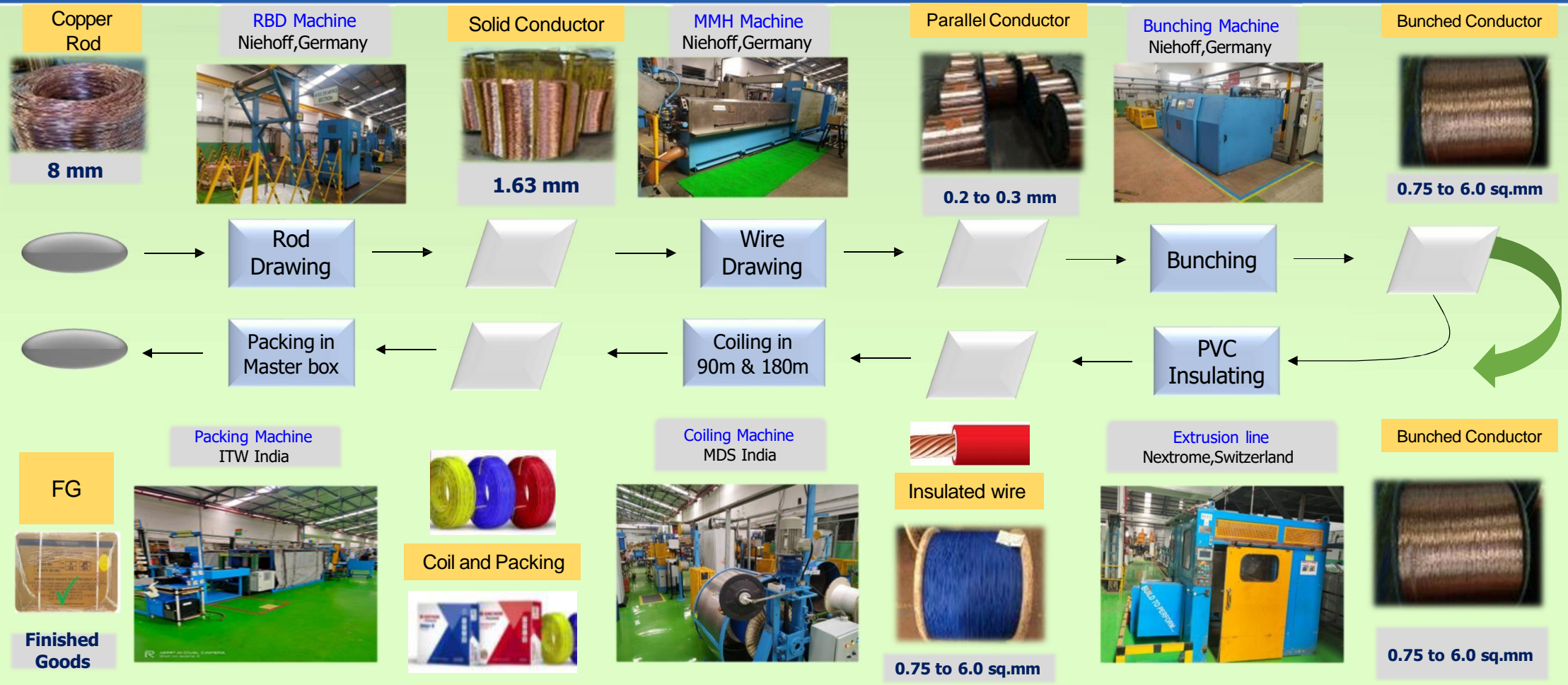
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**BREAKTHROUGH TO EXCELLENCE**



# Wire and Cables Process flow



# ENERGY POLICY

Continual improvement is process to reduce energy performance.

Continuous monitoring and controlling energy consumption.

Management commit for adopting energy efficient technology, product and design.

Energy conservation awareness to all employees.

## Panasonic

### ऊर्जा नीति

हमारे व्यवसाय दृष्टिकोण और पूरा दृष्टिकोण के एक अविभाज्य हिस्से के रूप में, हम वैश्वीकरण के माध्यम से उत्कृष्टतम प्रदर्शन को सुनिश्चित करने के लिए प्रतिबद्ध हैं। इस दृष्टिकोण को पूरा करने के लिए, हम अपनी सभी स्वीकृतियों में सर्वोच्च ऊर्जा संरक्षण प्रथाओं को स्वीकृत करने के लिए सुझाव और संसाधन प्रदान करेंगे।

हमारा उद्देश्य निम्न प्रकार का होगा :

- ऊर्जा की दृष्टि से निरंतर सुधारों को प्रोत्साहित करना।
- ऊर्जा की दृष्टि से सर्वोच्च प्रदर्शन को सुनिश्चित करना।
- ऊर्जा दक्षता, उपयोग और दक्षता के लिए प्रमुख कार्यकारी अधिकारियों और अन्य अधिकारियों को प्रोत्साहित करना।
- ऊर्जा दक्षता को सुनिश्चित करने के लिए सर्वोच्च प्रदर्शन को सुनिश्चित करना और ऊर्जा दक्षता बढ़ाना।
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### ENERGY POLICY

As an integral part of our business philosophy and core values, we at Panasonic Life Solutions India Pvt. Ltd., are committed to achieve excellence in energy conservation.

To fulfil this commitment, we shall provide information & resources to integrate best energy conservation practices in all our activities.

We will have special focus on:

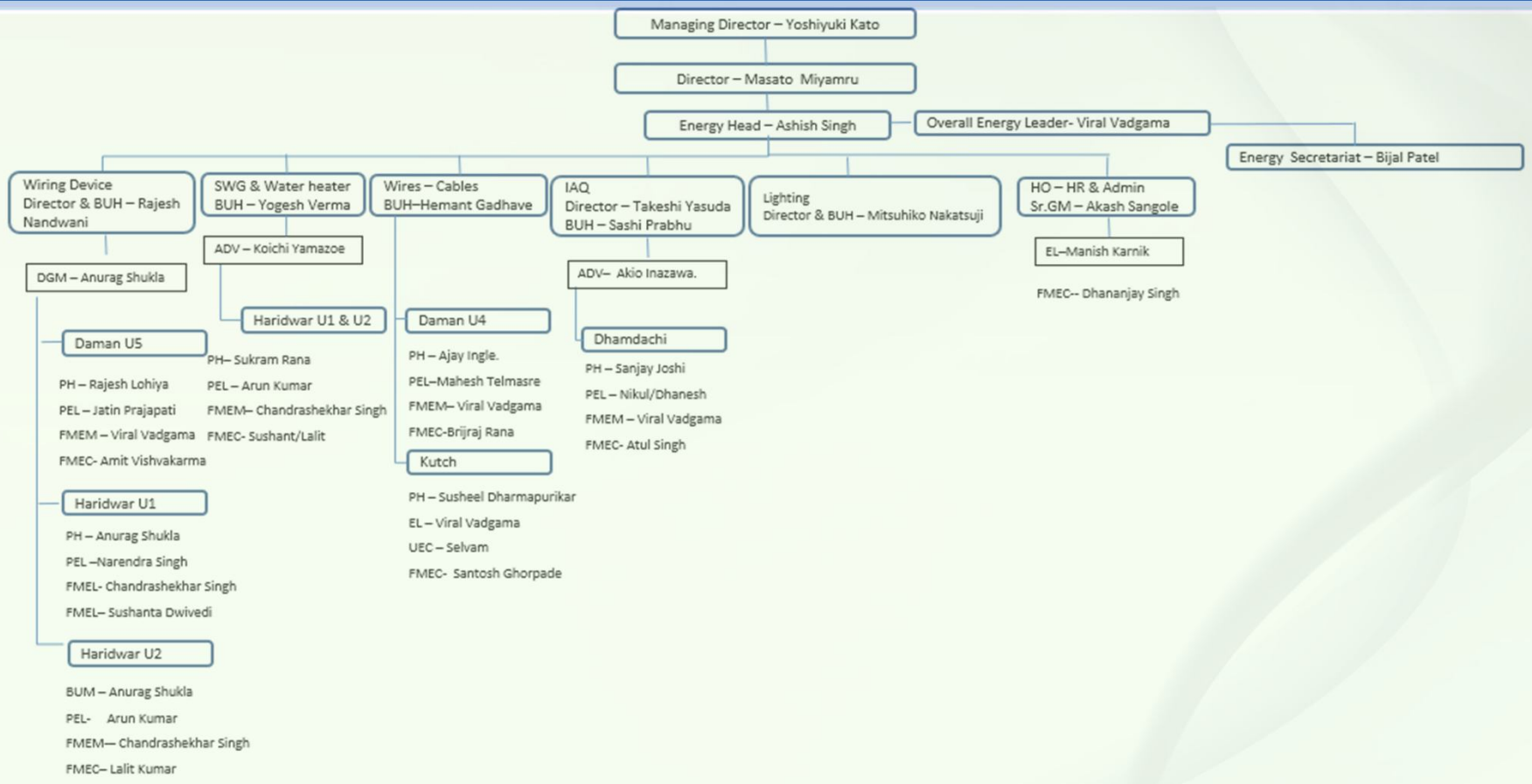
- Continuous monitoring and controlling energy consumption.
- Continual improvement in manufacturing process, to reduce energy consumption.
- Comply with all relevant statutory and other requirements applicable to energy use, consumption and efficiency.
- Set and review objectives and targets for continual improvements related to energy performance.
- Adopt best feasible technology design, product and services for energy efficiency by purchase of energy efficient product & services.
- Promoting awareness through training on energy conservation among all employees.

For Panasonic Life Solutions India Pvt. Ltd.

*(Signature)*

Managing Director

# ORGANOGRAM FOR THE ENERGY CELL



PH –Plant head  
 PEL – Plant Energy leader  
 ADV – Advisor  
 HOEL- HO Energy leader  
 FMEM-FM Energy manager  
 BUH – BU Head.  
 FMEC- FM Energy Coordinator

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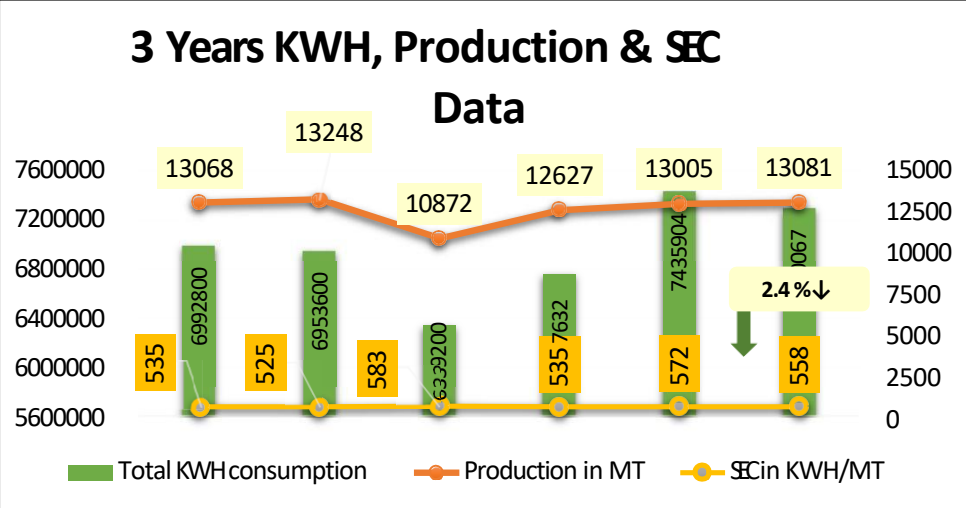
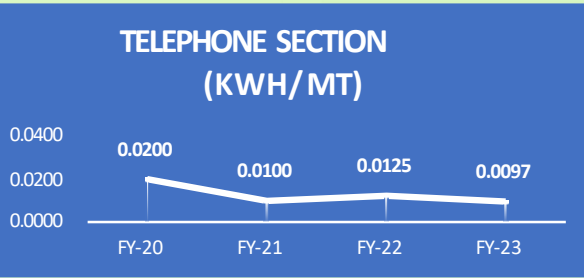
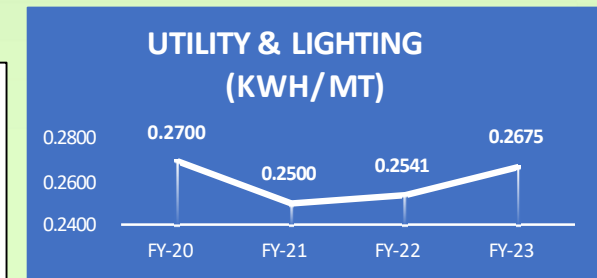
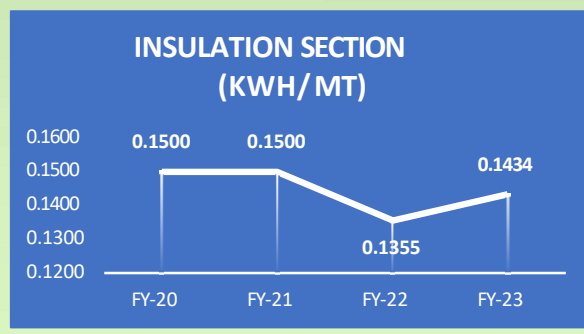
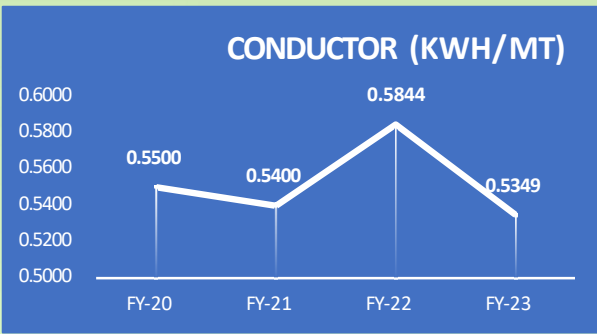
**BREAKTHROUGH TO EXCELLENCE**



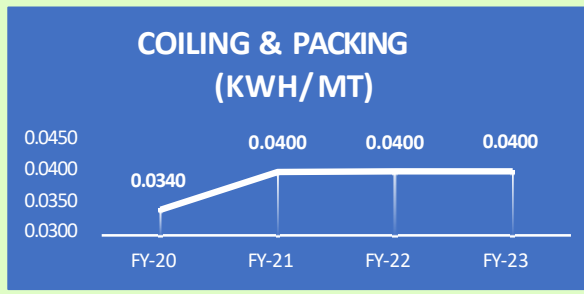


# OVERALL PRODUCTION, ENERGY AND SEC DATA- (FY 18-19 to 23-24)

Year	Total KWH consumption	Production in MT	SEC in KWH/MT
FY'18-19	6992800	13068	535
FY'19-20	6953600	13248	525
FY'20-21	6339200	10872	583
FY'21-22	6757632	12627	535
FY'22-23	7435904	13005	572
FY'18-20	7300067	13081	558

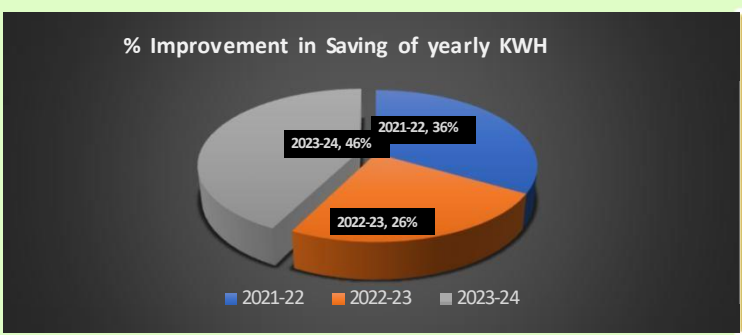
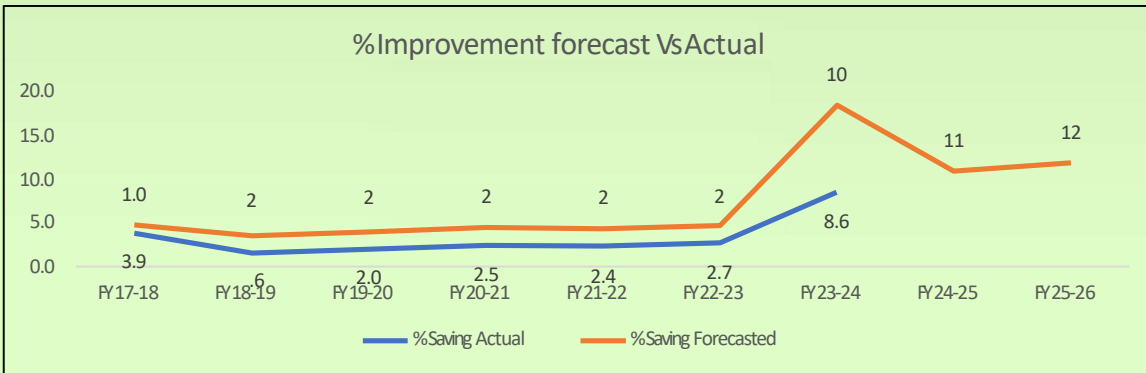


Overall SEC and Section wise sec improved except Utility section.



# BENCHMARKING

Sr. NO.	Year	Yearly Electrical energy consumption (KWH)	Yearly Saving	%Improvement in Saving of yearly KWH
1	FY19-20	6953600	141689	2.0
2	FY20-21	6339200	158684	2.5
3	FY21-22	6757632	159695	2.4
4	FY22-23	7435904.2	203824	2.7
5	FY23-24	7300067.2	626367	8.6



Note:- For Energy Saving Benchmarking we have plotted our internal Benchmarking Based upon Previous year data as the competitive data is not available

	Area For Improvement
	Area Already Improved

Sustainable Achievements			More Sustainable Competitors	Less Sustainable Competitors	
Comparative Analysis	Global	National	Competitor - 1	Competitor - 1	
	Environmental Budget	3530 MINR	06 MINR	22 MINR	<12 MINR
	Factory Waste Recycling Rates	Current 99% 100% Vision	50%	55%	<10%
	Renewable Energy Resources	32000 MW	10.3%↑ (5.21 MW)	8.55%	<2%
Comparative Analysis	Global	National	Competitor - 2	Competitor - 2	
	Green House Gases Emissions reduction	21.6 Mill Tons	25%	55%	<5%
	Waste Water Discharge & Recycling	11.78 million M3	65%	98%	<20%
	Waste Landfill Disposal	2.3 Thousand d Tons	<2%	<2%	<5%

# MAJOR E-CON PROJECTS FOR FY 2024-25

Sr. No.	Title of Project	Annual Electrical Saving	Energy Cost Saving	Investment	Payback	Comment
		(kWh)	(MINR)	(Rs in Million)	(Years)	
1	Technological upgradation of MMH-04 for DC to AC upgradation	36011	0.21534578	8.10	37.61	Technology upgradation.
2	Replacement of Old Buncher- 07 Machine by new machine for technological upgradation	7000	0.04186	7.00	167.22	Technology upgradation
3	Replacement of old steam generator by Smart ,Energy efficient , additional safety ,less maintenance steam generator for 2 machines	15522	0.09282156	1.00	10.77	Technology upgradation
4	Renewable Energy Generation	544555.8	3.256443684	-	-	In-House
5	Energy saving by 5 nos 24 W solar Street lighting	388.8	0.002325024	0.20	86.02	In-House
6	Energy saving by Heat recovery system in Air compressor (By- product Hot water will use in MMH Steam generator)	4665.6	0.027900288	1.00	35.84	Innovative Design
Total		6,08,143.20	3.64	17.3		

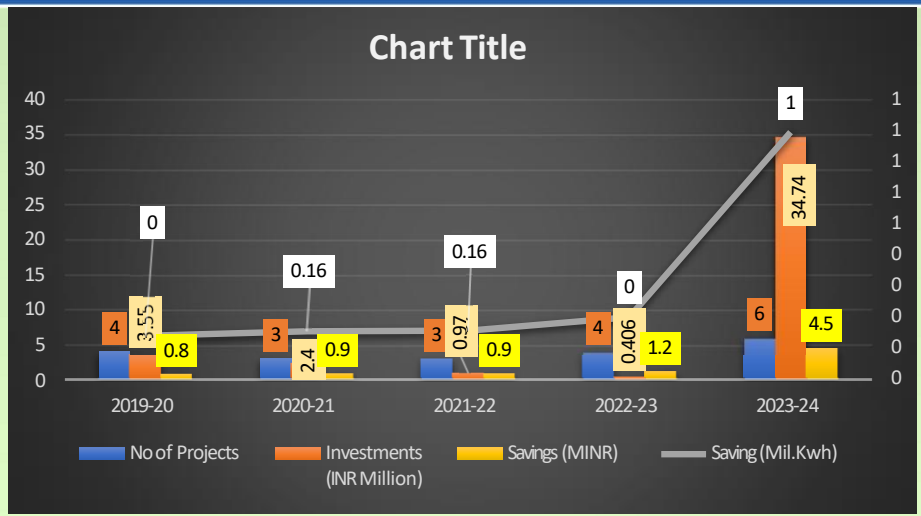
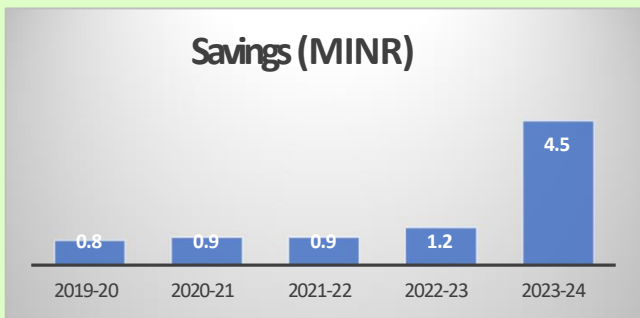
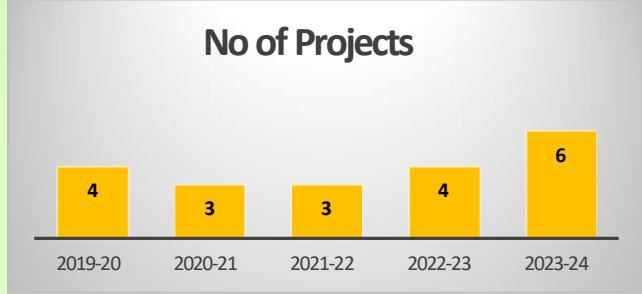
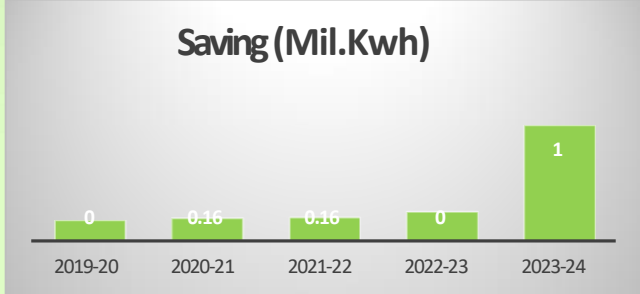
## Overall Data with Major and Minor Projects

- Technology Upgradation-5 nos,
- Kaizen- 1 nos

Total Energy Saving (KWH)	Total Investment (MINR)	Total Cost Saving (MINR)
6,08,143	17.3	3.64

# ENERGY SAVING PROJECTS IMPLEMENTED IN LAST 4 YEARS

Year	No of Projects	Investments (INR Million)	Saving (Mil.Kwh)	Savings (MINR)
2019-20	4	3.55	0	0.8
2020-21	3	2.4	0.16	0.9
2021-22	3	0.97	0.16	0.9
2022-23	4	0.406	0	1.2
2023-24	6	34.74	1	4.5



# MAJOR E-CON PROJECTS FOR FY 2023-24

Sr.No.	Title of Project	Annual Electrical Saving	Investment	Payback	Cost saving (MINR)
		(kWh)	(Rs in Million)	(Months)	
1	Generation of Renewable Energy by Installation of the Solar Power plant at unit 4 .(526 KWp)	574824	3.26	9.20	3.26
2	Energy Conservation in RO & DM Plant by technical control.	4290	0.02	0.25	0.02
3	Energy Efficiency improvement in buncher section by technological improvement.	6514.24	0.04	101.50	0.04
4	Reduced Energy Consumption through changing the packing method	40739	0.23	-	0.23
5	Energy saving in Compressor by IFC installation.	170654	0.97	0.70	0.97
<b>Total</b>		<b>797021</b>	<b>34.74</b>		<b>4.52</b>

### Overall Data with Major and Minor Projects

- Automation-1 nos,
- Technology Upgradation-3 nos,
- Kaizen- 1 nos

Total Energy Saving (KWH)	Total Investment (MINR)	Total Cost Saving (MINR)
7,97,021	34.74	4.52

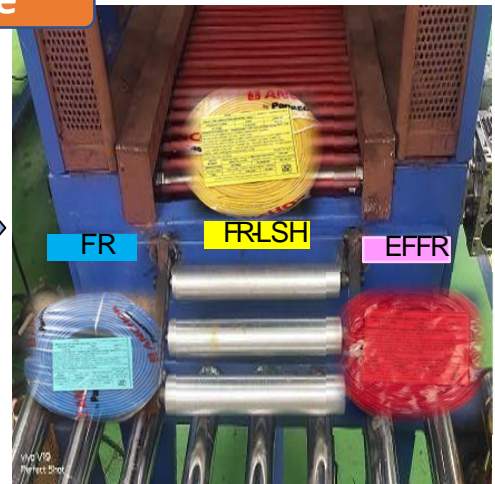
# INNOVATIVE PROJECT IMPLEMENTATION

**Theme** | Reduction of Energy Consumption through changing the packing method

**Before**



L-Type Shrink wrap 13 KW machine used for Project Packing

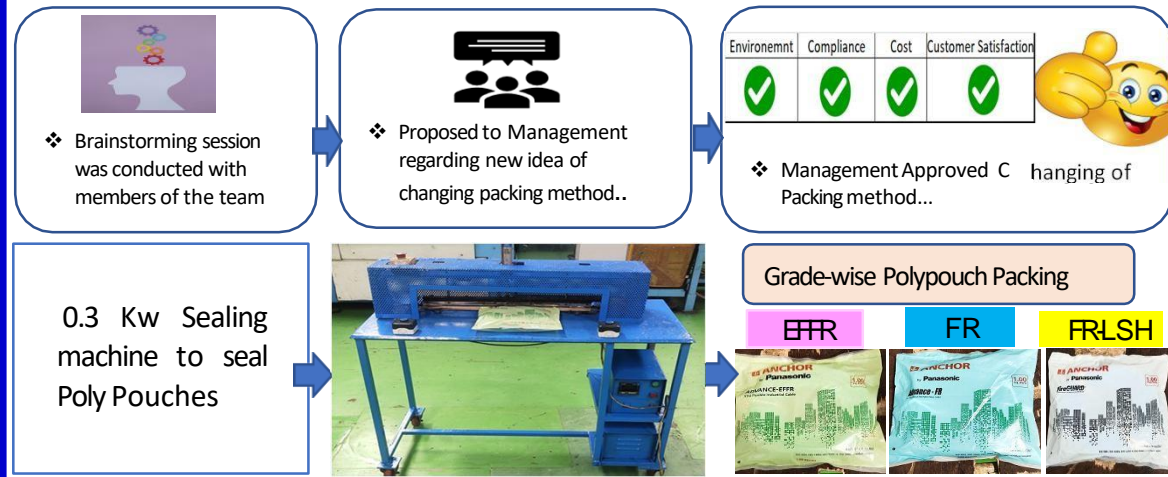


Out put of L-Type Shrink wrap Machine

**After**

**Action Plan:**

Uses of Polypouch instead of shrink wrap to eliminate the shrinking process which leads to saving in Energy consumption. Individual poly pouches (grade-wise) has been implemented considering the process requirement.



0.3 Kw Sealing machine to seal Poly Pouches



**Motivation to start theme** : Rising Energy cost by external agency leads to increasing processing cost.  
**Biggest Challenge** : Finding alternate option with out affecting adverse impact of customer perception as well as quality of the product.  
**The solution** : Implemented a solution that eliminated the energy consumption of shrinking process, by switching to Poly pouches instead of Shrink wrap.

❑ Before Energy Consumption was **41,887 KWh/Yr**  
 ❑ Total Energy cost= (KWh x unit cost) = 41,887 x 6.10= 2,55,510 INR (**0.255Mn**)/Year

❑ After Energy consumption = **1148 KWh/Yr**  
 ❑ Energy Saving= (41,887KWh-1148KWh) = 40,739 KWH/Yr.  
 ❑ Total cost saving = ( KWh x Unit cost) 1148 x 6.10= ₹ **7,002 (0.007 Mn/Year)**  
 (₹ 2,55,510 - ₹ 7,002) = 2,48,507 INR/Year (**0.248 Mn**)/Year  
 ❑ Reduced Carbon Footprint = **29.5 Tone/Year**

# INNOVATIVE PROJECT IMPLEMENTATION

## Theme Energy Saving In Compressed Air System By Intelligent Flow Controller (IFC)

Before

**Pressure Trend in Compressed Air System**

While VFD compressor working to meet the plant demand- Generation Pressure Fluctuation is from 105-97 psig i.e 7-8 psig. And Application Fluctuation is from 105-97 psig i.e 7-8 psig.

While LUL compressor working to meet the plant demand- Generation Pressure Fluctuation is from 108-95 psig i.e 12-13 psig. And Application Fluctuation is from 108-95 psig i.e 12-13 psig.

- Due to big pressure band , difficult to set optimum pressure.
- High energy consumption
- Variation in pressure leads interruption in machine operation

After

- Pressure optimization possible.
- Reduced fluctuation of system.
- Energy consumption reduced.
- Data monitoring possible

**Power Cost in INR Million**

Power Cost Before: 8.75  
Power Cost After: 7.61

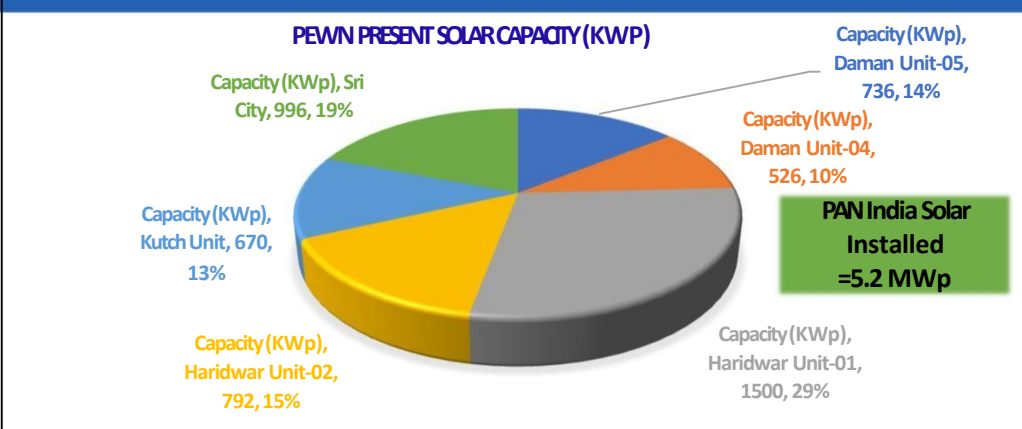
**Motivation to start theme :**Energy conservation by innovative and advance technology.  
**Biggest Challenge and Solution :**To Reduce artificial air demand ,system fluctuation and Energy consumption reduction by use of single system.

- ❑ Before Energy Consumption was 1350096 KWh/Yr
- ❑ Total Energy cost= 0.875 MINR/INR

- ❑ After Energy Consumption = 1174584 KWh/Yr
- ❑ Energy Saving= 1350096-1174584 =175512 KWH/Yr.
- ❑ Total cost saving = 1.14 MINR
- ❑ Reduced Carbon Footprint = 126.9 Tone/Year

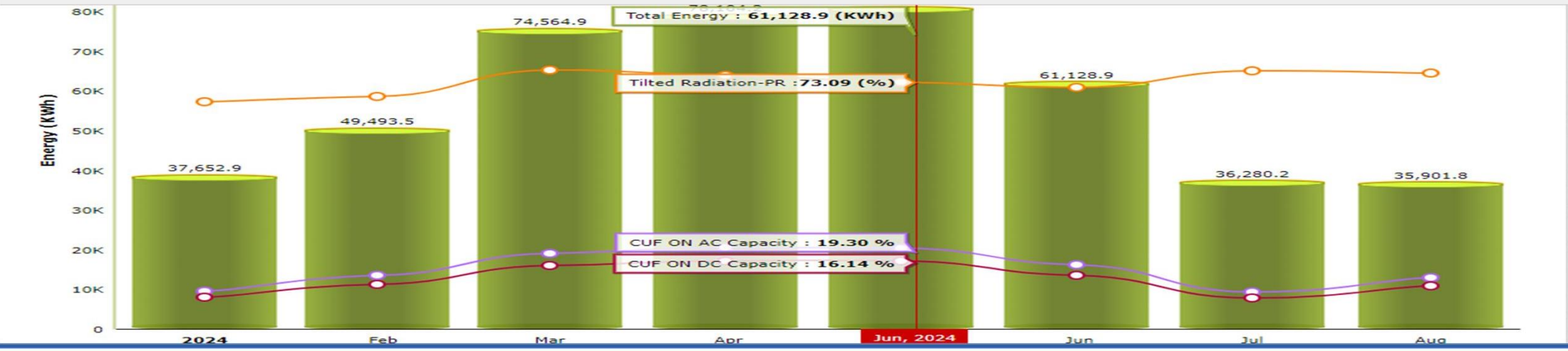
# UTILIZATION OF RENEWABLE ENERGY RESOURCE

Type	Solar Power		Capacity	526 KWp	Onsite	
Investment	30 MINR		Make-Panasonic			
Year	Technology	Type of energy	Onsite / Offsite	Installed Capacity	Generation (Million KWH)	% overall Electrical energy
FY-2022-23	Solar Power Plant	Solar	Onsite	736 KWp	1.000291	10.4287



Plant Graphs

Solar Power 130.37 (KW) | Day Gen 1.231 (MWh) | Month Gen 37.133 (MWh) | CUF 11.66 (%) | Total Gen 694.931 (MWh)

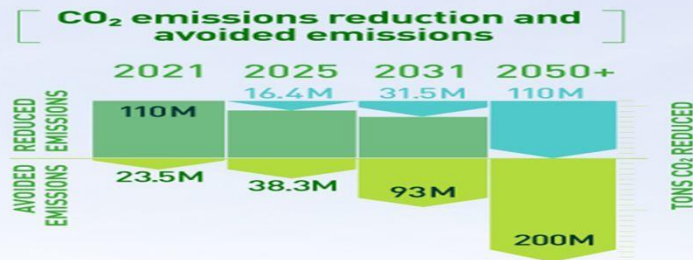




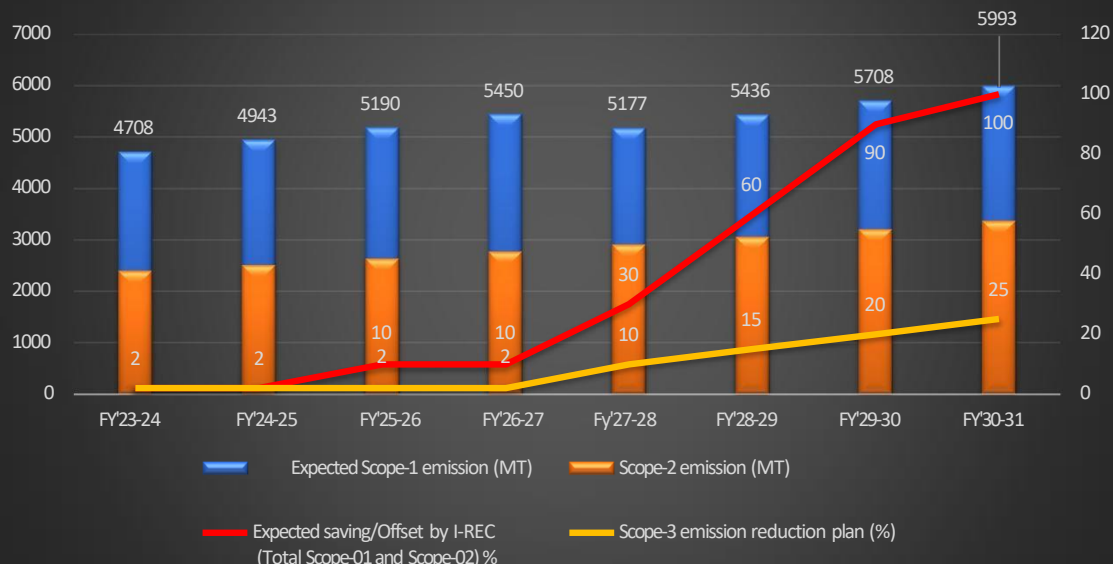
# STRATEGIC ACTION PLAN FOR ACHIEVING NET ZERO BY 2030

## Achieve Net zero in 2030

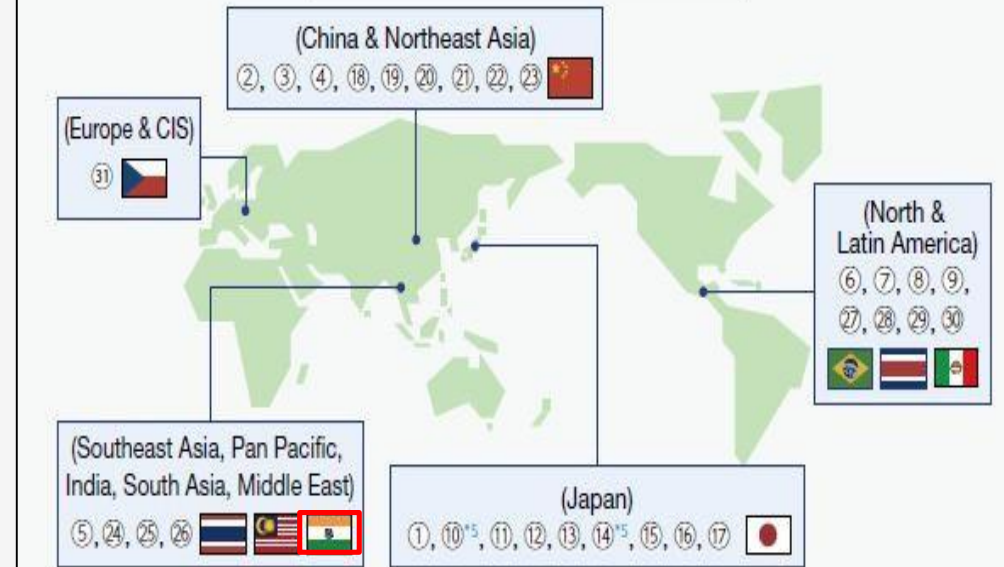
### Our action plan towards 2050 to achieve carbon neutrality



### GHG Reduction plan



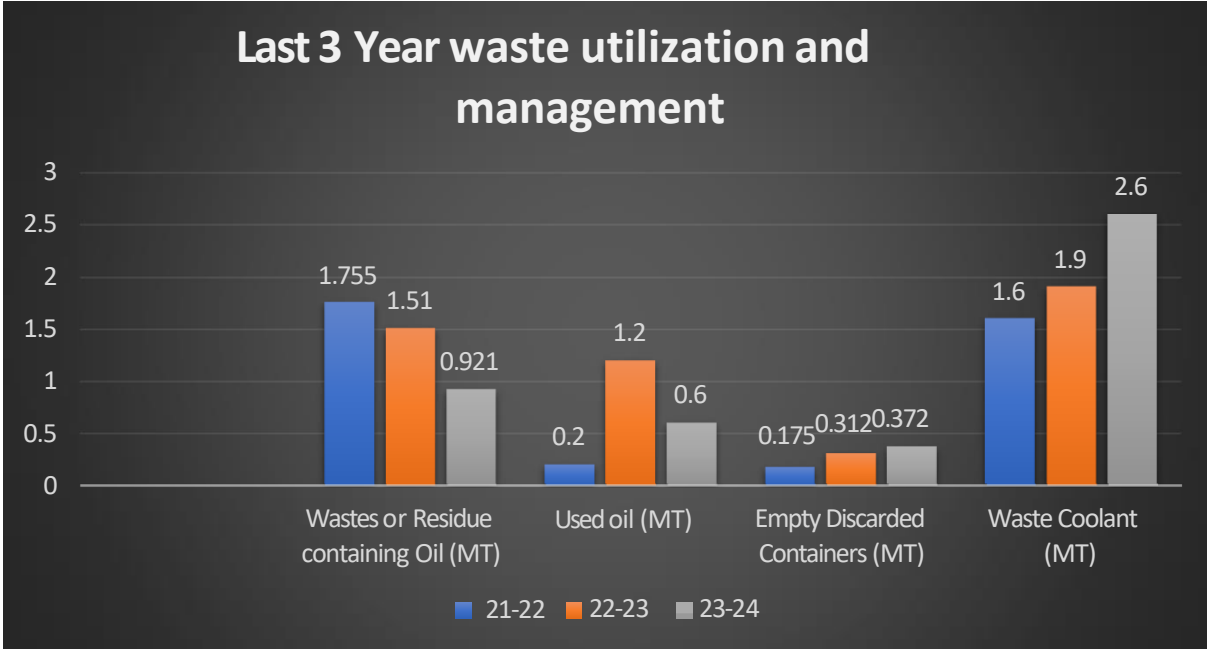
### Zero-CO<sub>2</sub> Factories across the Globe



- Present Capacity of solar plant across PLSIND is 5.2 MW.
- Explore feasibility of renewable power generation by FY'25 and initiation for agreement activity.
- Presently we have one Net-zero factory in India.

# WASTE UTILIZATION AND MANAGEMENT

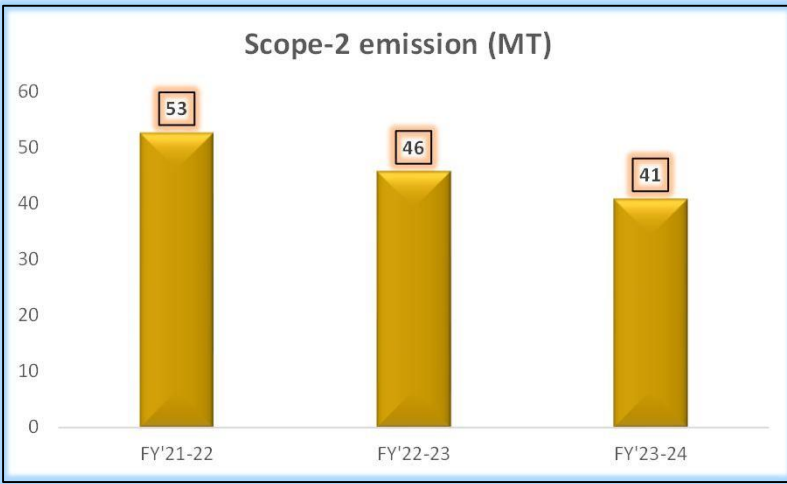
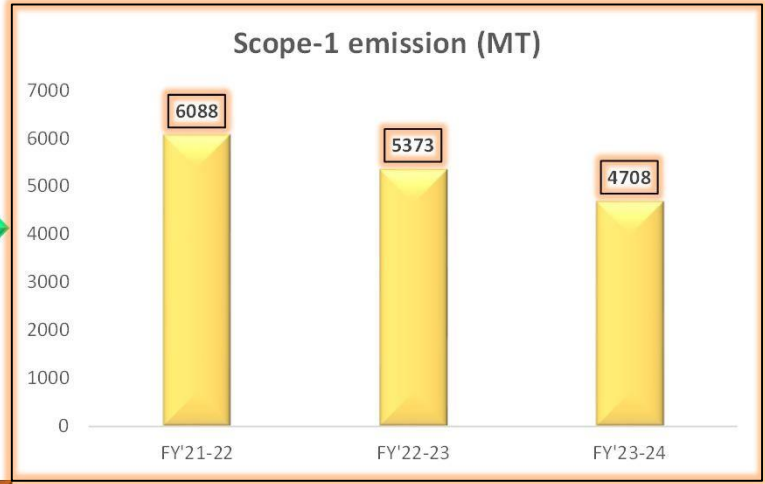
Sr.No.	Year	21-22	22-23	23-24
	Type of Waste			
1	Wastes or Residue containing Oil (MT)	1.755	1.51	0.921
2	Used oil (MT)	0.2	1.2	0.6
3	Empty Discarded Containers (MT)	0.175	0.312	0.372
4	Waste Coolant (MT)	1.6	1.9	2.6
5	Total Water consumption (MT)	3431	3240	16444



**The Waste coolant generation has increased by 27 % due to new RBD machine and tank replaced activity done.**

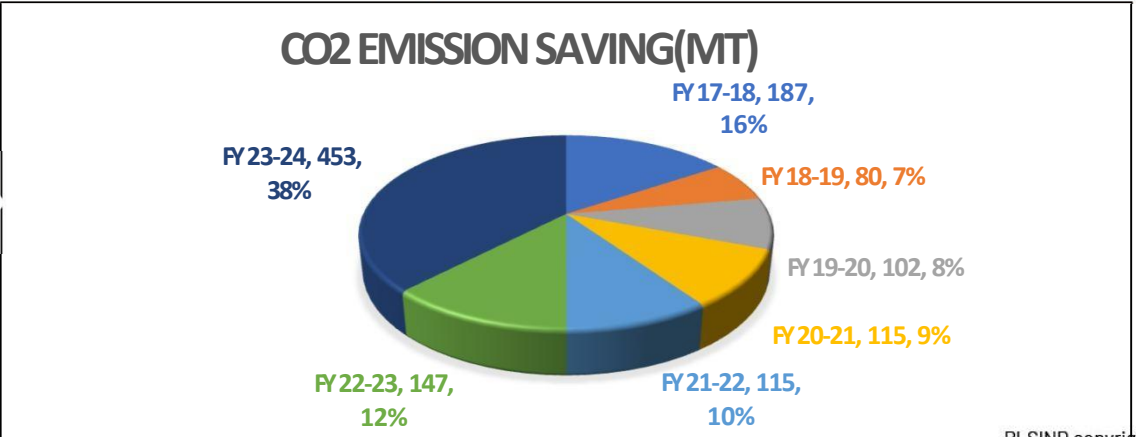
# GHG INVENTARISATION – Monthly Energy results are being submitted on Panasonic Global portal

Year	Scope-1 emission (MT)	Scope-2 emission (MT)
FY'21-22	6088	53
FY'22-23	5373	46
FY'23-24	4708	41



Sr.No	Year	Saved Co2 Emission in Ton
1	FY'17-18	495
2	FY'18-19	1626
3	FY'19-20	2351
4	FY'20-21	2789
5	FY'21-22	2032
6	FY'22-23	1471

**Last year four year % wise PLSIND Contribution for CO<sub>2</sub> emission reduction**



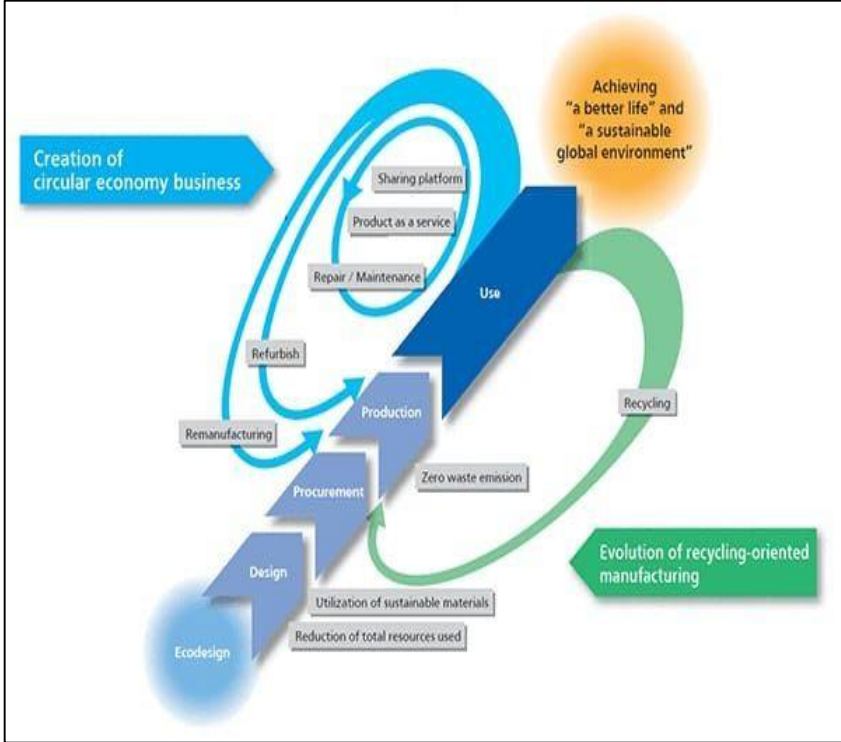
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# CIRCULAR ECONOMY (CE) BASED BUSINESS MODEL

- ▶ **Circular Economy (CE):**
- ▶ - Recycling ratio of factory waste: 99% or more
- ▶ - Use of recycled resin: 90 kt or more (cumulative amount from FY2023-2025)
- ▶ - CE-based business models/products: 13 businesses (10 businesses in FY2022)

**GREEN IMPACT PLAN 2024 (Fiscal 2025, 2031 targets and Fiscal 2023 actual results)**


Item		Fiscal 2023 actual results	Fiscal 2025 targets	Fiscal 2031 targets
		GREEN IMPACT PLAN 2024		
Material Issues	<b>OWN IMPACT</b> Emissions reduction in our own Value Chain <sup>2)</sup>	- 21.70 Mt (9.39 Mt)	16.34 Mt	
	Scopes 1 & 2 <sup>1)</sup>	Zero- CO <sub>2</sub> factories Total 31 factories	Total 37 factories	31.45 Mt <sup>7)</sup>
	CO <sub>2</sub> reductions	0.36 Mt	0.26 Mt	
	Scope 3 <sup>1)</sup> (Category 1)	CO <sub>2</sub> reductions in use of our products by customers - 9.1 Mt	16.08 Mt	
	<b>CONTRIBUTION IMPACT</b> Avoided Emissions for society <sup>3)</sup>		37.23 Mt	38.30 Mt
Resources/ CE Circular Economy	Factory waste recycling ratio <sup>4)</sup>	99.1%	99.0%	
	Recycled resin used <sup>5)</sup> (Fiscal 2023 to 2025 total for GIP2024 targets)	12,400 tons	Fiscal 2023 to 2025 total 90,000 ton	
	Circular economy business models and products (Total)	10 businesses	13 businesses	
Continuing challenge	Biodiversity	Reducing and restoring the impact of business activities on the ecosystem to become nature positive Procurement of sustainable raw materials, businesses that contribute to biodiversity green spaces, and products and services that contribute to biodiversity		
	Water	Reduce water consumption in business activities and products/services		
	Chemical substances	Reducing the environmental impact of chemical substance's business activities and products		
	Local communities	Promote environmental initiatives to contribute to local communities and educate the next generation		
	Compliance	Ensure compliance with environmental laws and regulations		



We will promote effective utilization of resources and maximization of customer value by creating liner to circular economy business and evolving recycling-oriented manufacturing.

# GREEN SUPPLY CHAIN MANAGEMENT SYSTEM

**Green Supply Chain management action plan**

Sr.	Description	Status	2018	2019	2020	2021
1						
2	Communication to supplier	Status				
3	Material inspection started as per green supply chain mechanism	Plan				
4	Proper policy drafting	Plan				
5	PO-Calibration Of Ware Meter	Status				
6	1181001200 Calibration Of Water Meter PFI Meter & TDS Meter Start	Status				
7	25 % implementation for inspection at vendor's premises	Plan				
8	25 % implementation for inspection at vendor's premises	Status				
9	Continual improvement	Plan				
10						

100% water coolers of factory premise are replaced by eco friendly gas water coolers as a sustainable organization.

No plastic allowed having less than 50-micron thickness.

95% Air-conditioners replaced with eco-friendly gas.

For supply of any item by vendor, without PUC and License, vendor vehicles are not allowed in plant area.

With each purchase order, it is communicated to vendors to supply only energy efficient product, environmentally friendly and safe products.

**Green Supply Chain Management**



**Panasonic**



**POLICY**  
 We at Panasonic Life Solutions  
 ply chain mechanism.  
 rces to integrate green supply

We will have special focus on:

- Procurement of energy efficient and eco friendly products.
- Continual improvement in manufacturing process, to reduce energy consumption.
- Comply with all relevant statutory and other requirements applicable to green supply chain mechanism.
- Set and review objectives and targets for continual improvements related to green supply chain.



**ENERGY EFFICIENT PRODUCTS SAVE MONEY**  
 COUSINS CONSTRUCTION WINDOWS & SIDING  
 793.394.7859  
 SIDINGEXPERTS.US

For Panasonic Life Solutions India Pvt. Ltd.

# MONITORING, TEAM-WORK AND EMPLOYEE ENGAGEMENT



Star Energy Saving Performer & Best Energy Saving Department award scheme for continual Energy improvement

**Panasonic Energy Saving Tips - Motor August 2024**

- Monitor Continuous running motor operation:** Search for the parameters on the Motor Data screen.
- Reduce Power Loss of Motor:** Motor winding should be 10 to 15%.
- Use Premium Efficient Motor:** Use IE3 Motor instead of Standard Motor. It has 4% lower energy loss compared to IE2 motor motor, and IE4 has lower energy loss compared to IE3 motor.
- Use Permanent Magnet Motors:** It has efficiency up to 97.5%. Application: To drive pumps for water and air conditioners. It is used in variable load.
- Use Variable Frequency Drives:** Use VFD Drive Motor whenever possible. It can save up to 25% Electricity cost.

**Monitor the Power Factor of motor:** Power factor is not only of the motor but also of the drive. It is better to use a capacitor bank to improve the power factor.

**Optimal operation:** Monitor & control the motor after that replace the same.

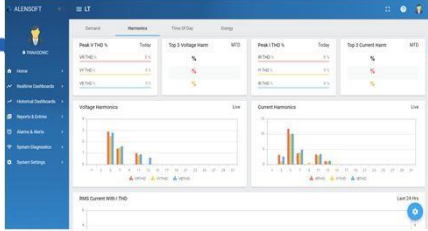
**92%** (with 5% improvement)

**3%** (with 1% improvement)

**Save Together. Save together.**

Plant	Expense	Working	Investment	Payback Period	Payoff Period (Yr)	Net Present Value
PLSIND	1000000	1000000	1000000	1000000	1000000	1000000
PLSIND	1000000	1000000	1000000	1000000	1000000	1000000
PLSIND	1000000	1000000	1000000	1000000	1000000	1000000

Online energy management system & Solar Generation system is available.



Daily energy waste observation is being monitored and recorded

Plant	Area	Check Item	Frequency	Responsible	Status
1	F8 Ground	Air-leakage checking	Monthly		
		Injection Mole Mill	Monthly		
		Metal production	Monthly		
2	F8 First floor	Oil & T	Monthly		
		Compression machine	Monthly		
		VIBR	Monthly		
		KITKAT & ROMA	Monthly		
		Non-Modular	Monthly		

Monitoring Teamwork & Employee engagement

Energy saving tips & Energy awareness programme is organized on regular basis.

Energy review meeting is chaired by MD for Global Level & Factory Manager at plant Level



Separate investment budget of 5 MINR is allotted for energy saving projects for FY-24.

Energy Saving projects are being executed through kaizens also- Refer next slide

# TECHNOLOGY UPDGRADATION FOR ROD BREAKDOWN MACHINE (RBD)



SRNO	PARAMETER	EXISTING RED DC CONTROL SYSTEMS	NEW RED AC CONTROL SYSTEM
1	Control system Type	DC	AC
2	Make	Siemens	Siemens
3	Technology	Old	Latest Digital
4	Present status	Becoming obsolete	Readily available
5	Service support	Not easily available	Available
6	Spares	Not easily available	Available
7	Maint cost	High	Low
8	Power saving	Less, due to low power factor <0.65 lag	More, as power factor is good >0.8 lag
9	Speed	Maximum 25MPS	Maximum 31.5MPS
10	Current Running speed	18MPS	31.5MPS
11	Plant BP achievement	Not possible - outsourcing required	Possible- excess capacity
12	KWH/MT	108	105- because of less required maint machine available time will increase which leads to improving productivity and power consumption
13	Maintenance	Frequent Maint required	Maintenance free
14	Running cost	High	Low
15	Productivity	Less due to frequent required Maint	More as less maintenance
16	Approx power saving		3-5% over DC system

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# IMPLEMENTATION OF ISO 50001:2018



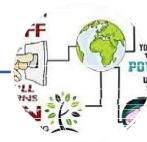
PEWIN Unit—04 is EnMS Certified Since Nov-17 & it's Transition form ISO 2011 to ISO 2018 has been Implemented in Jan'21.



EnMP are being taken and implemented on regular basis by each department



Regular Energy review and monitoring is being done



Energy awareness programmes are being planned on regular basis



More Emphasis given for procuring energy efficient products.

More than 1 % Budget kept for the Energy Saving project & IoT's on total turnover of the Factory

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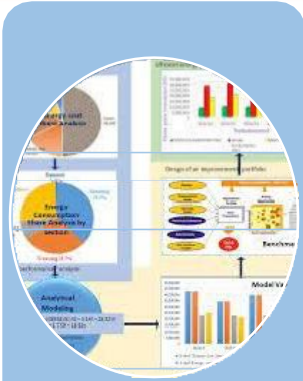


BREAKTHROUGH TO EXCELLENCE

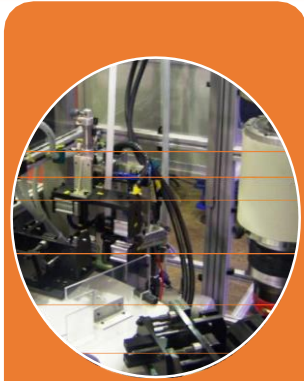




# LEARNING FROM CII ENERGY AWARDS OR ANY PROGRAM



*Section Wise Capturing of SEC in KWH/ MT Started as suggested by CII.*



*Automation Implementation of Energy Kaizen from Other Industries .*



*IFC System Installed for Air Compressor at the PLSIND U-4 Premises as per suggestion received From CII*



*Gain More Knowledge for Green Supply Chain management.*



*Zero Waste Land field certification*



*GreenCO Certification*



*Resource and Energy Management form APEX INDIA award & Golden Peacock Award*



# INTERNAL GLOBAL PANASONIC GROUP AWARDS AND RECOGNITION



**CERTIFICATE OF COMMENDATION**  
Director in Charge Award

India Daman Unit 5 Action Group for Reduction of Plant Facility Consumption Energy

You contributed greatly through the activities to reduce consumption of energy in the plant facilities by the introduction of solar power system.

In addition, you won the "National Energy Conservation Award 2019 Bureau of Energy Efficiency," 1st Prize in Consumer Goods Sector and this excellent achievement has improved our company value and brand value.

Therefore, we grant you the aforementioned award and this certificate of commendation on the occasion of the anniversary of the company foundation.

May 5, 2020  
Director in Charge of HR  
Toru Kanno  
Life Solutions Company.



**ANCHOR | Panasonic**

We have a great time to share regarding the great achievement of Facility Management Team group and support of Plant team members.

Facility Management team with support of all members of Daman Branch has worked towards achieving results of energy saving activities at Daman branch. In collaboration with the same team, the received for Prize from "Ministry of Power, Government of India" for "Consumer Goods Sector" in 19th Edition.

Considering the above E3 category, Panasonic Corporation Japan Director in Charge has also granted certificate of commendation to "India Daman Unit 5 Facility Management Group For Reduction of Plant Facility Consumption Energy" for energy saving activity and also for introduction of solar power system.

Following are some of the energy saving activities implemented: 1. Reduction of solar power panel.



**Panasonic Corporation  
Director in charge  
Award in FY'20**

**For Energy conservation**



**表彰状**  
安全努力賞  
パナソニックライフソリューションズ  
インド株式会社

貴社は、全員一丸で力をこめて安全な職場環境をつくりだすことに尽力し、安全管理体制の刷新、安全対策の徹底など、全従業員への徹底した安全意識の醸成・浸透を図られたこと、安全管理の徹底に尽力した結果、1年間の安全管理活動の成果として、10月1日より11月30日まで安全無事故不慮に過ごされたことに敬意を表します。

10月1日より11月30日  
パナソニック株式会社  
ライフソリューションズ  
インド株式会社



**Safety Effort  
Award in FY'21**

**For Safety improvement**



**Certificate of Commendation**  
1st LS Company Energy Saving and 3R Case Sharing Meeting  
**Good Idea Award**  
Panasonic Life Solutions India Pvt., Ltd. Unit-4  
Production & Development

**Award theme**  
Reduce Copper Scrap from 18.5 MT/Month to 14.9 MT/Month (19% Reduction)

At the 1st LS Company Energy Saving and 3R Case Sharing Meeting's, your group's activity idea was selected, by a vote among employees, as showing particular merit.

We would like to further spread this initiative by presenting the award of the headline here.

June 30, 2021  
S. Manojan  
Sgt. Manojan, Vice President  
E3 Environmental Conservation Officer

**Certificate of Commendation  
from IS Company for Reducing the  
Copper Scrap at Unit-4 in FY'21**

**For 3R Category**



**表彰状**  
エナジーシステム事業部長賞

称号: 工場省エネ・創エネ活動による  
事業貢献と企業イメージ向上  
Facility Management & Daman Unit-5

貴グループは前記の活動により顕著な実績をあげ、当事業の経営に大きく貢献されました。よって、創業記念日に当り、頭書の賞を贈り表彰します。

2021年8月5日  
パナソニック株式会社 ライフソリューションズ社  
エナジーシステム事業部  
事業部長 重田 半信

**Energy Saving Business  
Division Directors Award to  
unit 5 in FY'21**

**For Energy conservation**

Various Awards received from Panasonic, Japan by PLSIND :

Certificate of Commendation : Directors In charge Award for Energy Conservation. – FY-20 Safety Improvement Award for safety initiatives by PLSIND – FY-21

Certificate of Commendation : Good Idea Award for Copper waste reduction. – FY-21

Directors Award : For Energy conservation Activity. – FY-21



**BREAKTHROUGH TO EXCELLENCE**







# External Awards & Recognitions



- ⑨ International Award – Safety.
- ⑩ National Award – Energy.(U5)
- ⑪ National Award – Energy (U4)
- ⑫ National Award – Energy (Hrd U1)

⑨	⑩	⑪	⑫
 <p>Daman Unit-04 Declared as winner for Golden Peacock Safety management</p> <p>For Energy Conservation</p>	 <p>Awarded by CII for Energy efficient unit for Daman Unit-5</p> <p>For Energy Conservation</p>	 <p>Awarded by CII for Energy efficient unit for Kutch</p> <p>For Energy Conservation</p>	 <p>Awarded by CII for Energy efficient unit for Haridwar Unit-1</p> <p>For Energy Conservation</p>

FY22

⑤	⑥	⑦	⑧
 <p>Awarded by CII for Energy efficient unit for Daman Unit-5</p> <p>For Energy Conservation</p>	 <p>Awarded by CII for Energy efficient unit for Haridwar Unit-1</p> <p>For Energy Conservation</p>	 <p>National Award for Environment Best Practice-2021 by CII</p> <p>Environmental Management</p>	 <p>WCT Kutch Unit Declared as winner for Golden Peacock Energy Efficiency Award-2021</p> <p>For Energy Conservation</p>

FY21

- ⑤ National Award – Energy.
- ⑥ National Award – Energy.
- ⑦ National Award – Environment
- ⑧ International Award – Energy.

①	②	③	④
 <p>Awarded by CII for Energy Efficient Unit for Daman Unit-5</p> <p>For Energy Conservation</p>	 <p>Awarded by Apex India Foundation – For Best waste management practice to Daman US</p> <p>For Waste Management</p>	 <p>Awarded by Apex India Foundation – For Best Water management practice Haridwar U2.</p> <p>For Water Management</p>	 <p>Daman Unit-04 Declared as winner for Golden Peacock Environment management Award- 2020</p> <p>Environmental Management</p>

FY20

- ① National Award – Energy.
- ② National Award - Waste Mgt.
- ③ National Award – Water Mgt.
- ④ International Award – Env.

# External Awards & Recognitions – FY-23

Environment Best Practice - 2023



Award received for Environmental Projects from CII.



Energy Efficient Unit – Hrd U2



Award received for Energy Management Activities from CII, First Time.

Energy Efficient Unit – Daman U5



Award received for Energy Management Activities from CII, 4<sup>th</sup> Time..

Energy Efficient Unit - Kutch



Award received for Energy Management Activities from CII, 2<sup>nd</sup> Time.

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# External Awards & Recognitions – FY-23

## HSE Excellence & ESG Global Awards



Award received for various safety initiatives across PEWIN



## National Safety Convention – Gold Award



Gold Awards received by Unit-04 and Kutch Unit for Safety improvement at respective Units



## Environment Best Practice - 2023



Award received for Environmental Projects from CII- 3<sup>rd</sup> time.



## ELBD Excellence Award



Panasonic ELBD Excellence Award for Commendable Safety performance.

## Golden Peacock safety Award



Award received for Energy Management Activities from CII, 4<sup>th</sup> Time..



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**Save Energy Today for  
Brighter Tomorrow**

**THANK YOU**

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