PRESENTATION ON 24th NATIONAL AWARD FOR EXCELLENCE IN ENERGY MANAGEMENT

Panasonic

PANASONIC LIFE SOLUTIONS INDIA PVT LTD.

Unit-05, Daman

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CII Certified Energy Efficiency professional

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CII Certified Energy Efficiency professional

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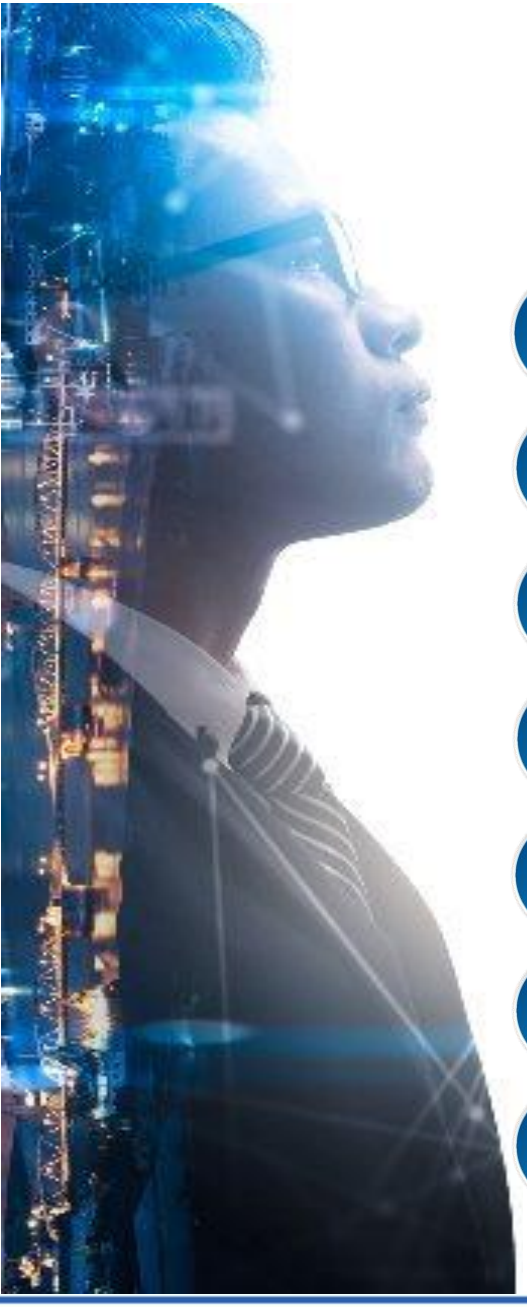

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Panasonic

Life Solutions India Pvt. Ltd.

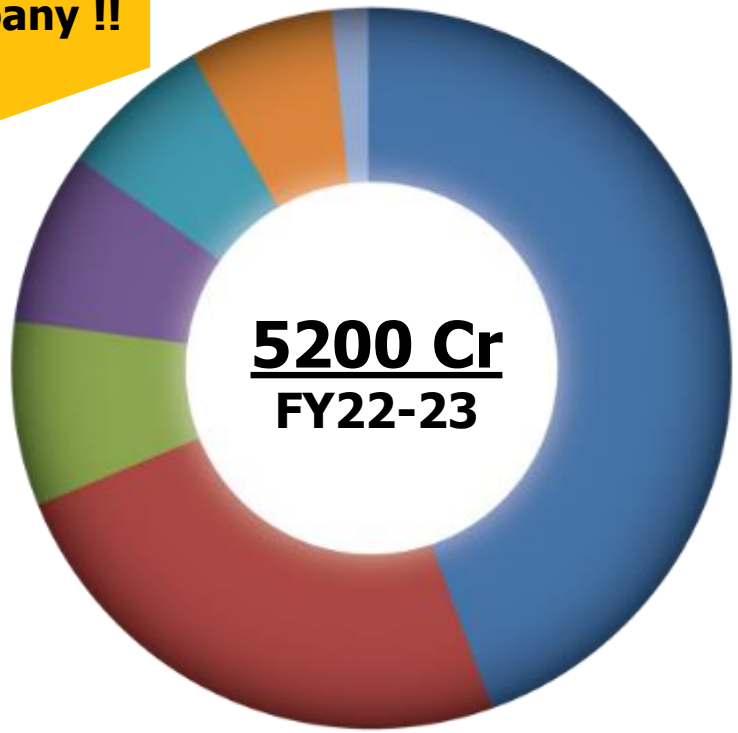
(Formerly known as)

Anchor Electricals Pvt Ltd.

A global enterprise that manufactures cutting edge electrical products

Established	1963
Revenues Million	USD 501+
Organization Strength	9000+

Not just a Switches Company !!



- Wiring Devices
- Wires & Cables & Tapes
- Switchgear
- Lighting
- IAQ (Fans)
- Solar Energy
- Conduit Pipes
- Power Tools
- Homes & Living
- Water Heaters
- EV Charger

PEWIN FACTORIES OVERVIEW

FACTORY

(4 AREAS 7 FACTORIES)

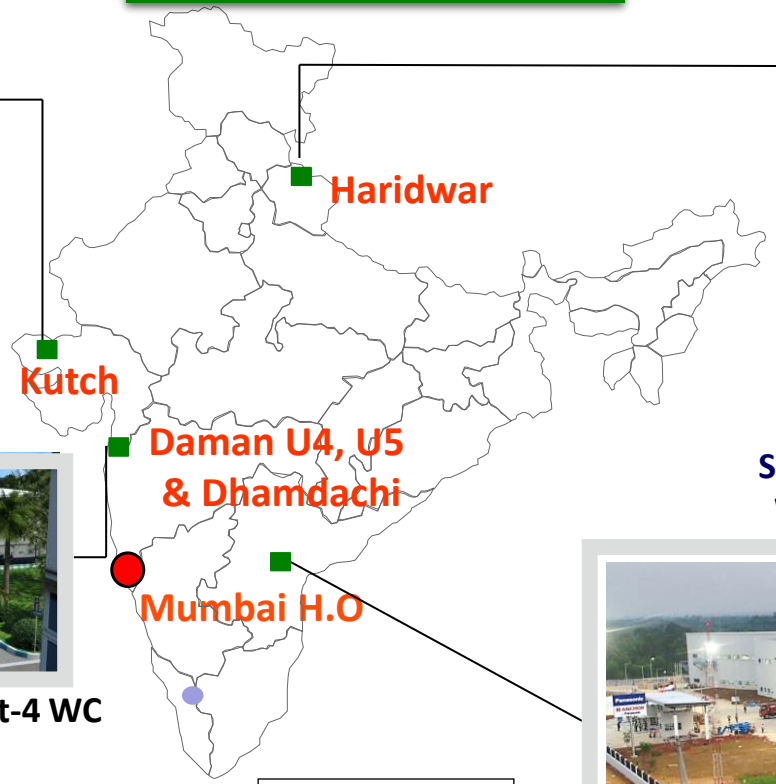
Kutch Factory
Wire Cable

Daman Factory
Wiring Device, Wire Cable
IAQ

Unit-5 WD

Unit-4 WC

Dhamdachi(IAQ)



Haridwar Factory (Unit1)
Wiring Device, Switch Gear

Haridwar Factory (Unit2)
Wiring Device, Switch Gear

Sri City Factory
Wiring Device

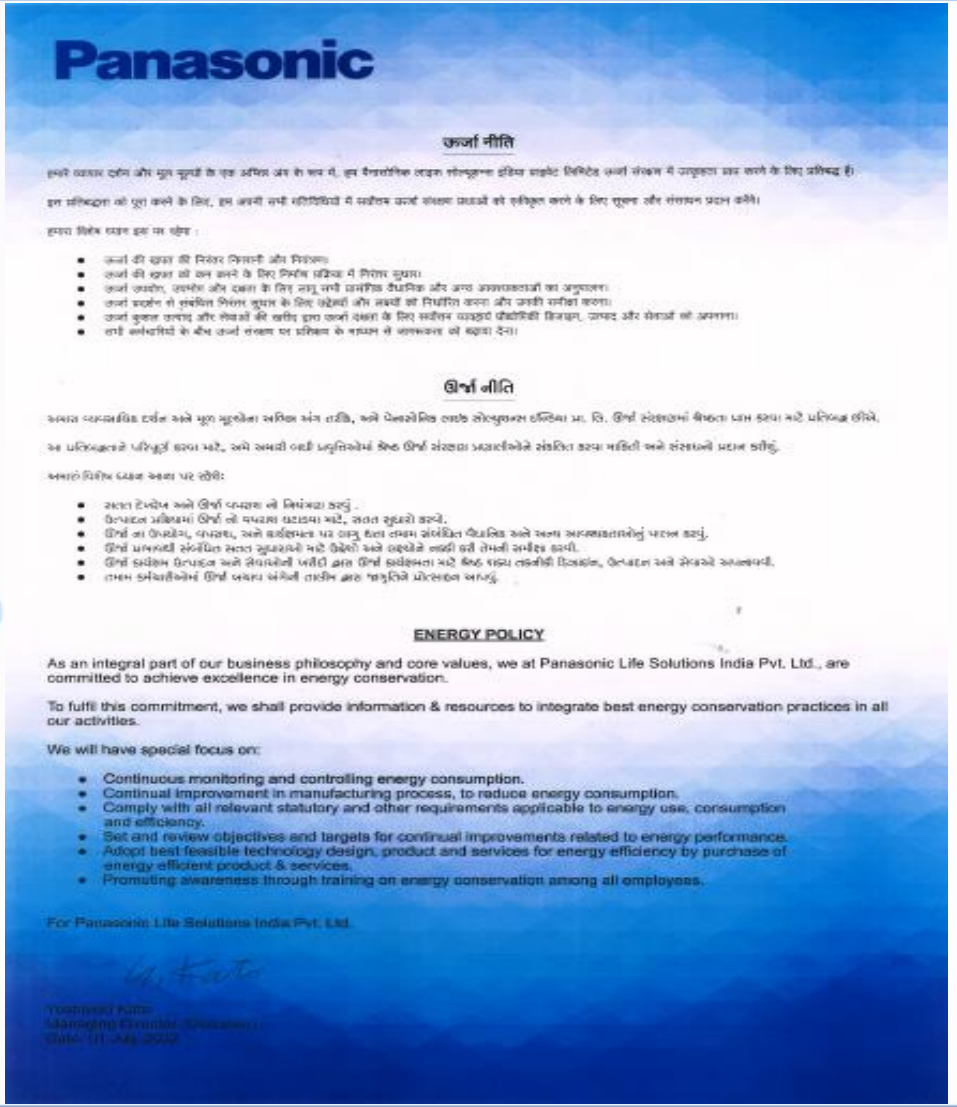
ENERGY POLICY

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

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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.

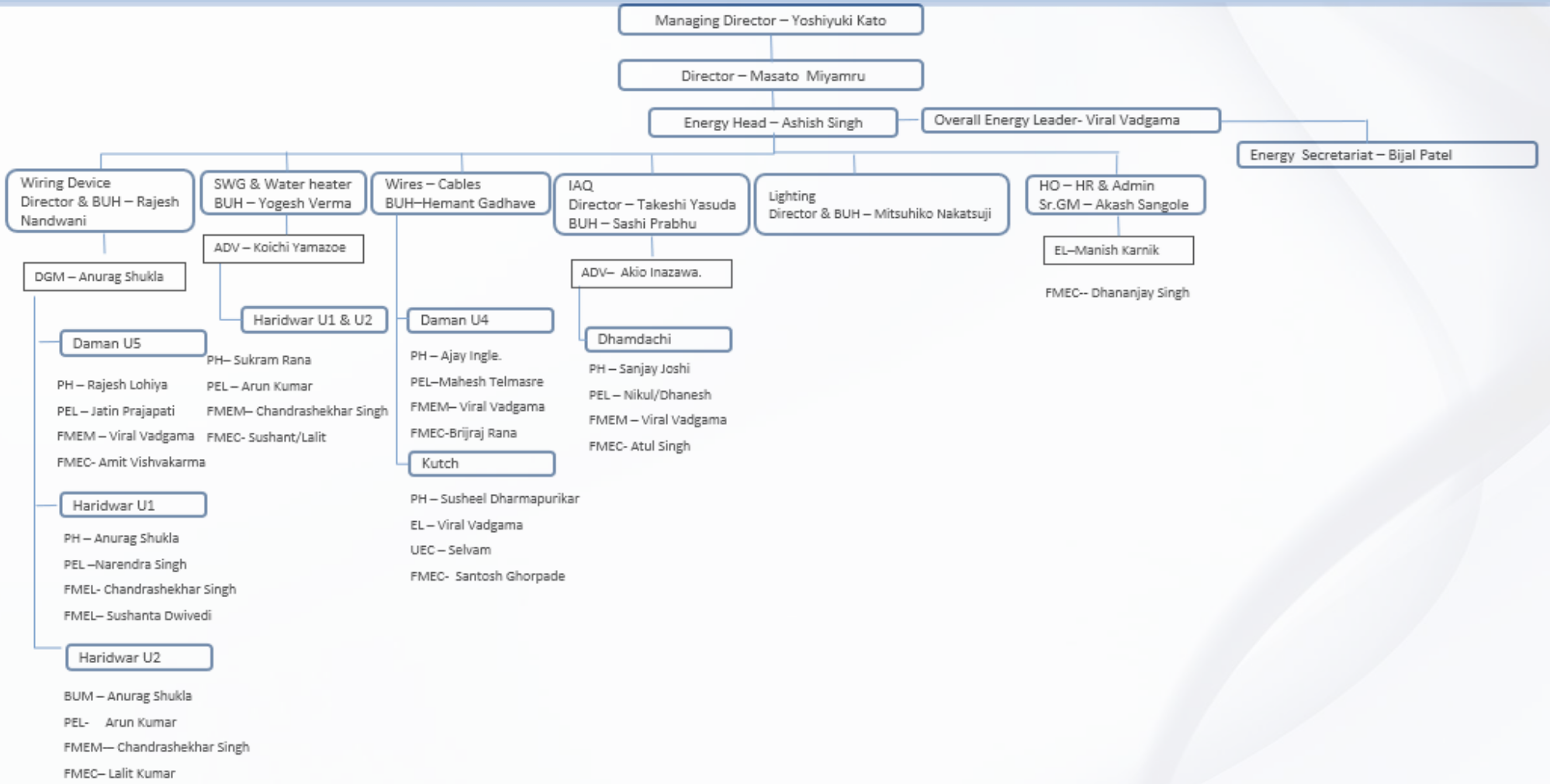
To fulfil this commitment, we shall provide information & resources to integrate best energy conservation practices in all our activities.

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.

ORGANOGRAM FOR THE ENERGY CELL



PH –Plant head
FMEM-FM Energy manager

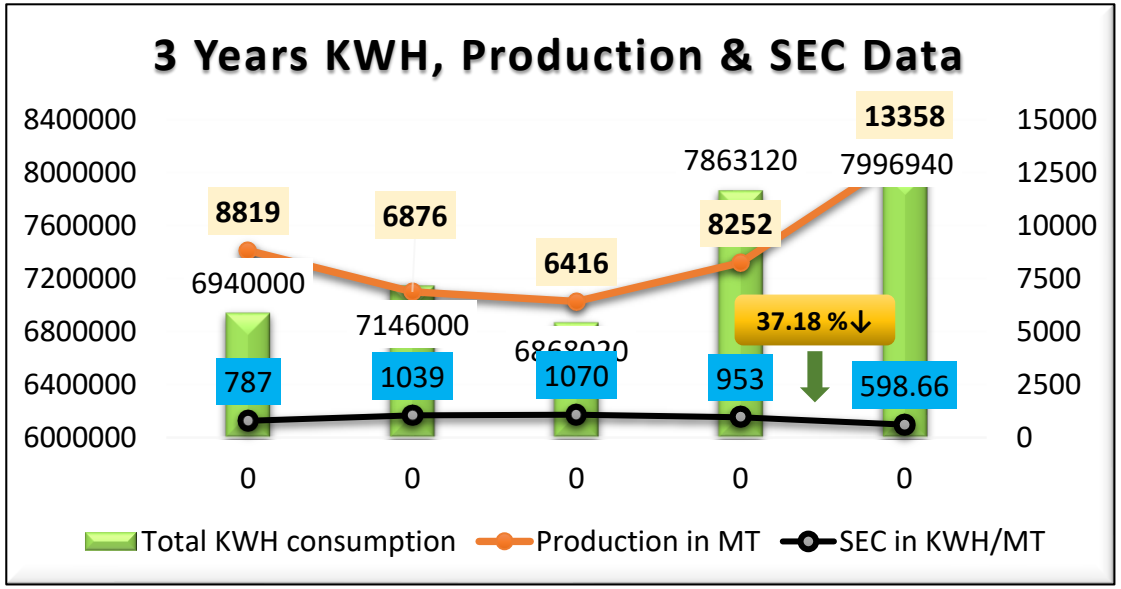
PEL – Plant Energy leader
BUH – BU Head.

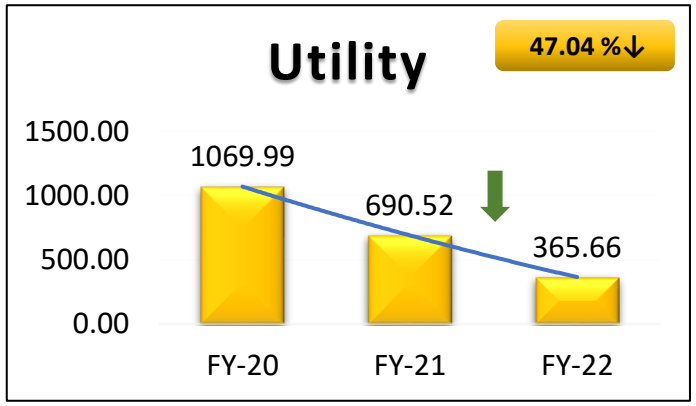
ADV – Advisor
FMEC- FM Energy Coordinator

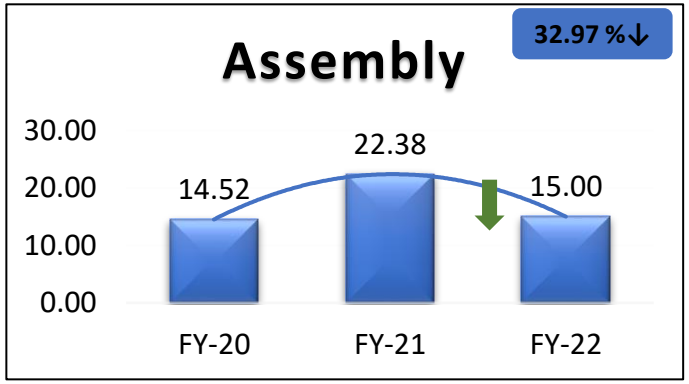
HOEL- HO Energy leader

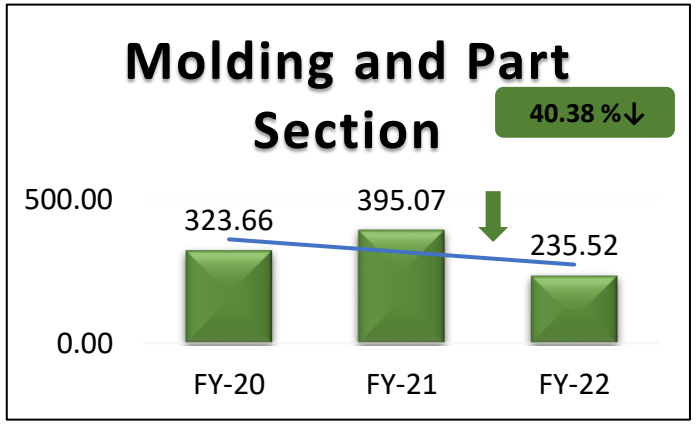
OVERALL PRODUCTION ,ENERGY AND SEC DATA - (FY 18-19 to 22-23)

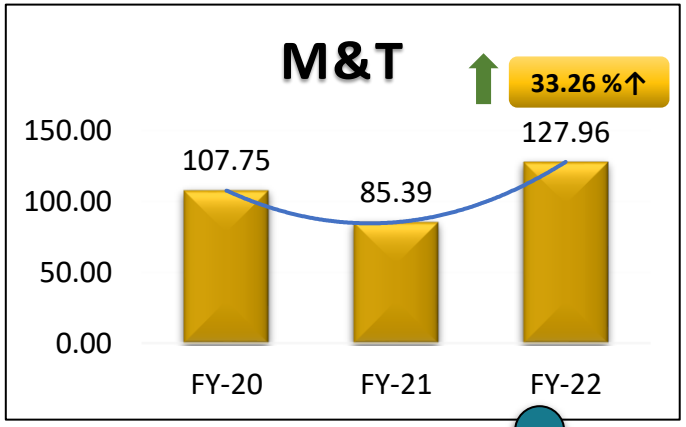
Year	Total KWH consumption	Production in MT	SEC in KWH/MT
FY'18-19	6940000	8819	787
FY'19-20	7146000	6876	1039
FY'20-21	6868020	6416	1070
FY'21-22	7863120	8252	953
FY'22-23	7996940	13358	598.66







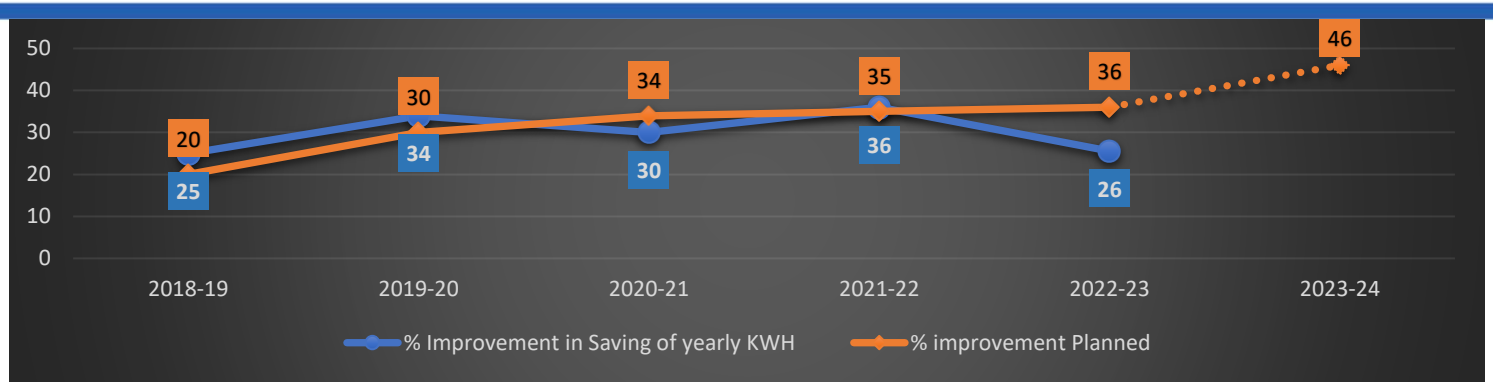




Overall SEC and Section wise sec improved except Mould and Tool section due to new product launching moulding production.

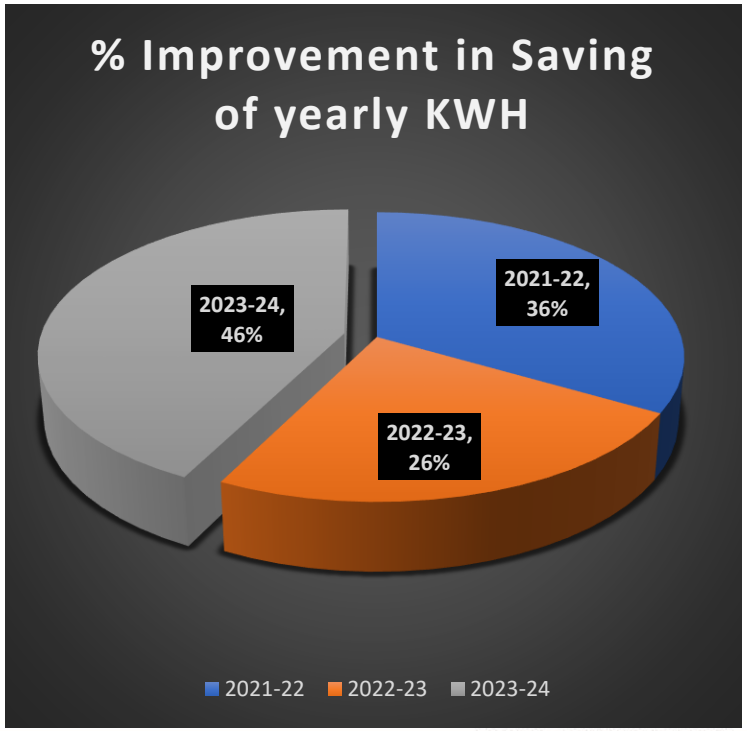
BENCHMARKING

Sr. NO.	Year	Yearly Electrical energy consumption (KWH)	Yearly	% Improvement in Saving of yearly KWH
1	2018-19	6940000	1766560	25
2	2019-20	7474000	2566676	34
3	2020-21	6868020	2054126	30
4	2021-22	7863120	2810589	36
5	2022-23	7996940	2033895	26



Sustainable Achievements			More Sustainable Competitors	Less Sustainable Competitors
Comparative Analysis	Panasonic Global	National	Competitor - 1	Competitor - 1
Renewable Energy Resources	32000 MW	3.9 MW	5.60 MW	<1.0 MW
Comparative Analysis	Panasonic Global	National	Competitor - 2	Competitor - 2
Green House Gases Emissions	10,000 Tons	14.5 %	8 %	< 5 %

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

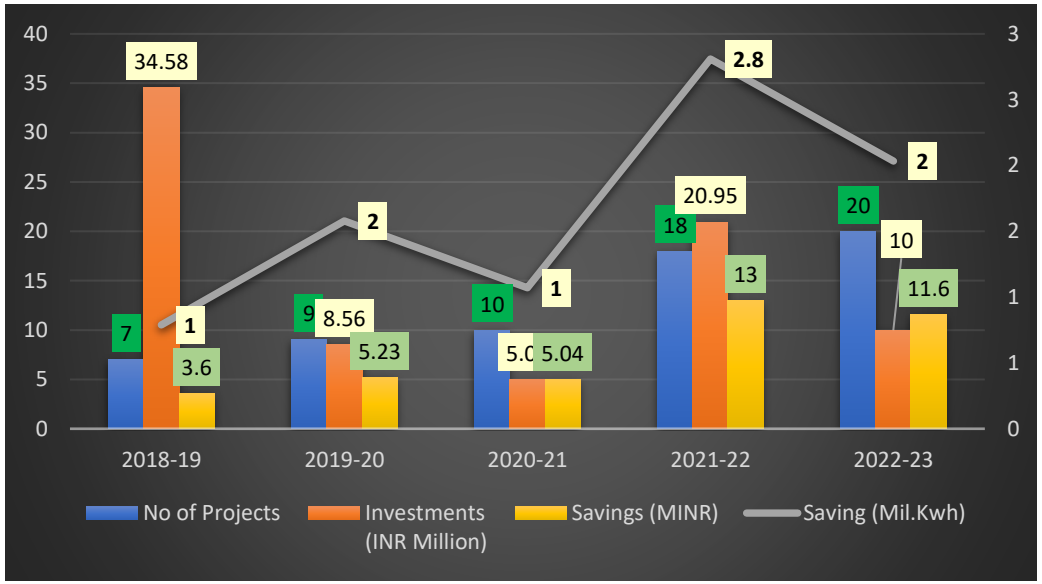


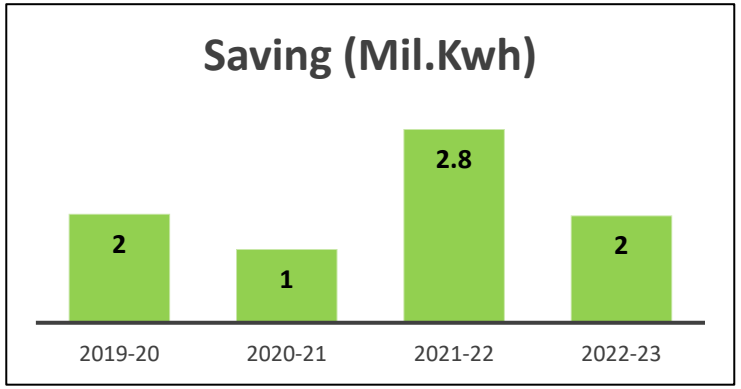
MAJOR E-CON PROJECTS FOR FY 2023-24

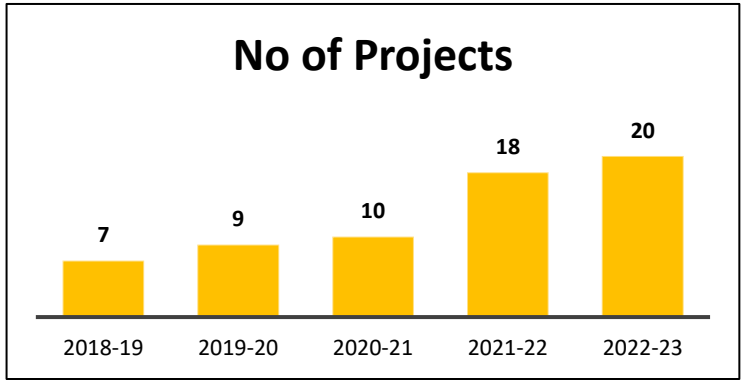
Sr. No.	Title of Project	Annual Electrical Saving (kWh)	Energy Cost Saving (MINR)	Investment (Rs in Million)	Payback (Years)	Comment
1	Reduction in Energy consumption by replacing old hydraulic machine with new all electric injection molding machine (4 Nos of Machines) approx 30 % Less Energy consumption compared to previous Machine)	113944	0.64606248	12	18.57	Technology upgradation.
2	Reduction in Energy consumption by using One Centralize Conveying System (CCS) for 06 Injection Molding Machine instead of 6 nos dehumidifier	100000	0.567	4	7.05	Technology upgradation
3	Replacement of incandescent light of machine with Energy Saving LED lights	2500	0.014175	0.024	1.69	Technology upgradation
4	Reduction of energy consumption by line no. -5 soldering table shited to line no. -1 and stop air blow no.5	3600	0.020412	0	0.00	**In-House**
5	3 Nos pad printer will be replaced with one lessor printer machine	5000	0.02835	0	0.00	**In-House**
6	Injection moulding machine Cavity increase from 2 to 4 in A6N23213301 -13A Switch Socket-2G	13200	0.074844	0.03	0.40	**Innovative Design**
7	Injection moulding machine Cavity increase from 1 to 2 in A6N23234301 – Telephone Jack	6600	0.037422	0.015	0.40	**Innovative Design**
8	Zina plate 6 bend seal machine remove with one flow wrap machine	14400	0.081648	2.145	26.27	Technology upgradation
9	5 nos old clamping machine (10 Cylinder) to be replaced with one auto clamping machine (2 cylinder)	20000	0.1134	2.2	19.40	Technology upgradation
10	Energy saving by arresting air leakages of the plant	75000	0.42525	0	0.00	**In-House**
11	Energy saving by installing energy efficient motor at cooling tower fan	28000	0.15876	0.12	0.76	Technology upgradation.
12	Energy saving by installing PVC curtain in injection molding area	51924.2	0.294410214	0.5	1.70	**Efficiency improvement**
13	Replacment of old RO plant with new RO plant	6000	0.03402	0.3	8.82	Technology upgradation
14	New energy efficient AC installation in offices	200000	1.134	4	3.53	Technology upgradation
15	Installation of Solar street light in plant	6701.4	0.037996938	0.517	13.61	Technology upgradation.
16	Energy saving by renewable energy source	1000000	5.67	0	0.00	**Green Energy Generation**
Total		16,46,869.60	9.338	25.851	6.39	

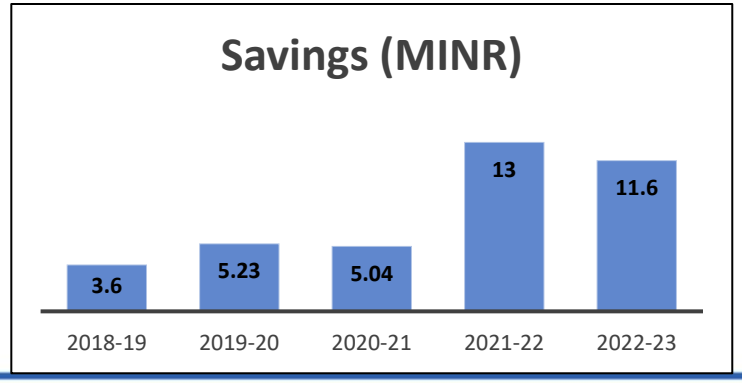
ENERGY SAVING PROJECTS IMPLEMENTED IN LAST 4 YEARS

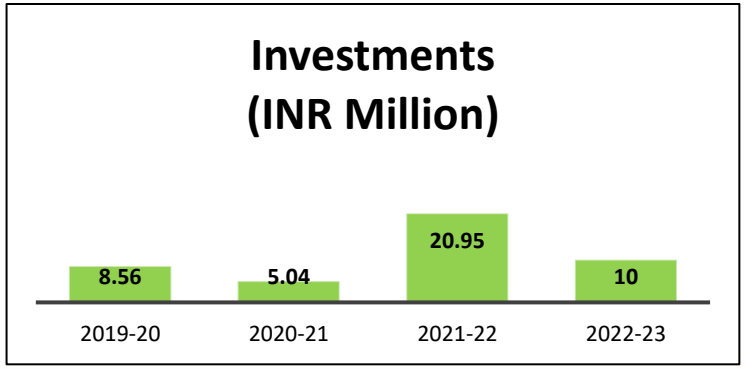
Year	No of Projects	Investments (INR Million)	Saving (Mil.Kwh)	Savings (MINR)
2019-20	9	8.56	1.58	5.23
2020-21	10	5.04	1.07	5.04
2021-22	18	20.95	2.81	13.47
2022-23	20	10	2.03	11.6











MAJOR E-CON PROJECTS FOR FY 2022-23

Sr. No.	Title of Project	Annual Electrical Saving (kWh)	Investment (Rs in Million)	Payback (Months)	Cost saving (MINR)
1		788.4	0.0609	163	0.0045
2	Energy Conservation by installation of Energy efficient motor at STP blower. i.e approx. 5% by installing of I4 motor	7262	0.045	13	0.04
3	Reduction in energy consumption by reducing compressed air uses inside plant by closing all leakages .i.e 6.3 % Reduction	15840	0	Immediate	0.09
4	Reduction in energy consumption by installation of VFD at cooling tower Pump	22775	0.235	22	0.13
5	Energy saving at our existing RO plant by replacing with energy efficient RO plant i.e. 31 %	43769	0.3	219	0.25
6	replacement of existing Old fixed speed AC with energy efficient VRV AC ie approx. 5.0 % Saving	123279	2	34	0.70
7	Reduction of th energy consumsumption in the screw fitting table by use of 24 Volt Motor for the Screwing in place of 220 Volt motor i.e 85 % saving	14688	0.0396	6	0.08
8	Energy & Cost Saving by Modification of Multi Forming Machine Electric Lubrication System	1440	0	Immediate	0.01
9	Reduction in Energy consumption by installation of Heater jacket in Injection molding machines.	43200	0.098	5	0.24
10	Installation of PIR Sensor in Main Stores Unloading Area for energy saving. 50 %	720	0	Immediate	0.00
11	Reduction in Energy consumption by using common dehumidifier for 06 machine in place of 03 machine at Injection moulding area.	202972.04	0	Immediate	1.15
12	Replacement of Air Guns with Energy Efficient Guns (10 Nos of Guns) 12 % Energy Saving	16500	0	3	0.09
13	Generation of Renewable Energy	1000291	0	Nil	5.67165
14	Energy Saving by changing Manual Operation into Semi Auto Operation	84	0.5	12597	0.00048
15	Reduction of the Electricity bill by Export of the solar power generated	33301	0	Immediate	0.19
Total		15,26,909.44	3.2785		8.66

Overall Data with Major and Minor Projects

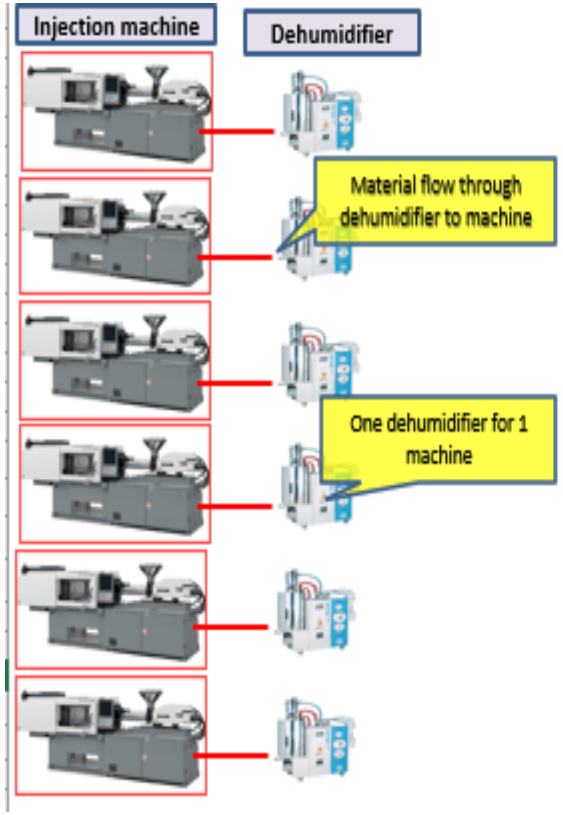
- **Automation-6 nos,**
- **Technology Upgradation-7 nos,**
- **Kaizen- 7 nos**

Total Energy Saving (KWH)	Total Investment (MINR)	Total Cost Saving(MINR)
20,33,895	10	11.6

INNOVATIVE PROJECT IMPLEMNETATION

Theme **Improve productivity by 200% in dehumidifier in 3 Nos of dehumidifier**

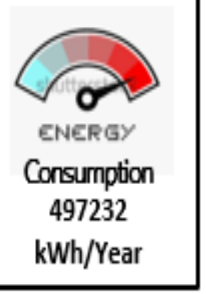
Before



1 Dehumidifier hourly power consumption 11.51 kWh so 6 dehumidifier hourly consumption is 69.06 kWh and our machine is running 24 hours in a day and 25 day in month so our anual power consumption for 6 dehumidifier is = 69.06*24*25*12 = 497232 kWh /Year

One output line / dehumidifier

Four Dehumidifier use for four injection machine



- Before Energy Consumption was 4,97,232 KWh/Yr
- Total Energy cost= 2.78 MINR/INR

After

Brain storming

High energy consumption

purchase dehumidifier with dual feeder

Already having saperate dehumidifier for every machine so no need to buy new dehumidifier

Modification in existing dehumidifier

It is phisible , So we decide to modification in esisting dehumidifier dryer

Two Dehumidifier use for four injection machine

Dual out way line per 1 Nos dehumidifier

Two output line / dehumidifier

Save2 dehumidifier cost 1428000 INR

Over all yearly consumption reduced from 497232 KWH to 248616 KWH/year.

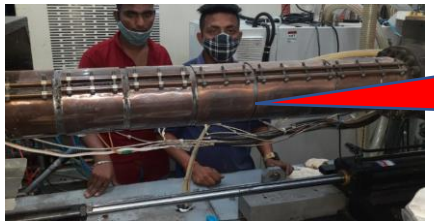
After implemantetion of activity total **saving** is **2.81 Mil INR**

- After Energy Consumption- 248616 KWh/Year i.e 1.4 MINR.
- Energy Saving=2,48,616 KWH/Yr.
- Total cost saving in INR is = 1.4 MINR
- Reduced Carbon Footprint = 226.24 Tone/Year

INNOVATIVE PROJECT IMPLEMENTATION

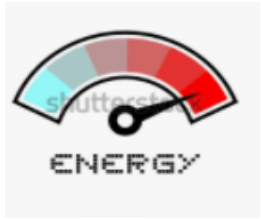
Theme **Injection molding machine heat efficiency improvement by providing heater jacket.**

Before



Open heater on barrel of injection moulding machine. Consume more energy due to heat loss

21 Nos Machine Barrel heater power consumption(without heater jacket) 1013.04 KWh/Day



Consumption

303912 KWh/Year

1 Injection molding machine barrel heater **(without heater jacket)** hourly power consumption **2.01 KWh** so **21 Nos** Injection molding machine barrel heater **(without heater jacket)** hourly power consumption **42.21 KWh** and our machine is running 24 hours in a day and 25 day in month so our anual power consumption for 21 Nos injection molding machine is = **42.21*24*25*12 = 303912 KWh/Y**

- Before Energy Consumption was **303912** KWh/Yr
- Total Energy cost= 1.72 MINR/Year.

After

Install heater jacket on all heaters And Horizontally deployed this activity in 21 Nos other injection moulding machine

Heater jacket installation

21 Nos Machine Barrel heater power consumption (with heater jacket) 811.44 KWh/Day

1 Injection molding machine barrel heater **(with heater jacket)** hourly power consumption **1.61 KWh** so **21 Nos** Injection molding machine barrel heater **(with heater jacket)** hourly power consumption **33.81 KWh** and our machine is running 24 hours in a day and 25 day in month so our anual power consumption for 21 Nos injection molding machine is = **33.81*24*25*12 = 243432 KWh/Y**

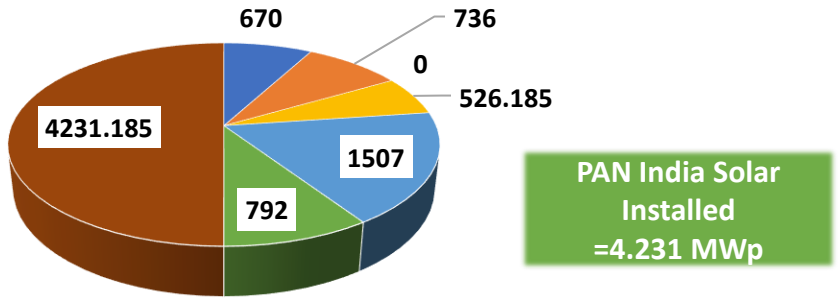
- After Energy Consumption 243432 KWh/Yr i.e 1.380 MINR/year.
- Energy Saving= = 60480 KWH/Yr.
- Total cost saving in INR is = 0.342 MINR
- Reduced Carbon Footprint = 55 Tone/Year

UTILIZATION OF RENEWABLE ENERGY RESOURCE

Type	Solar Power	Capacity	736 KWp	Onsite
Investment	60 MINR	Make-Panasonic		

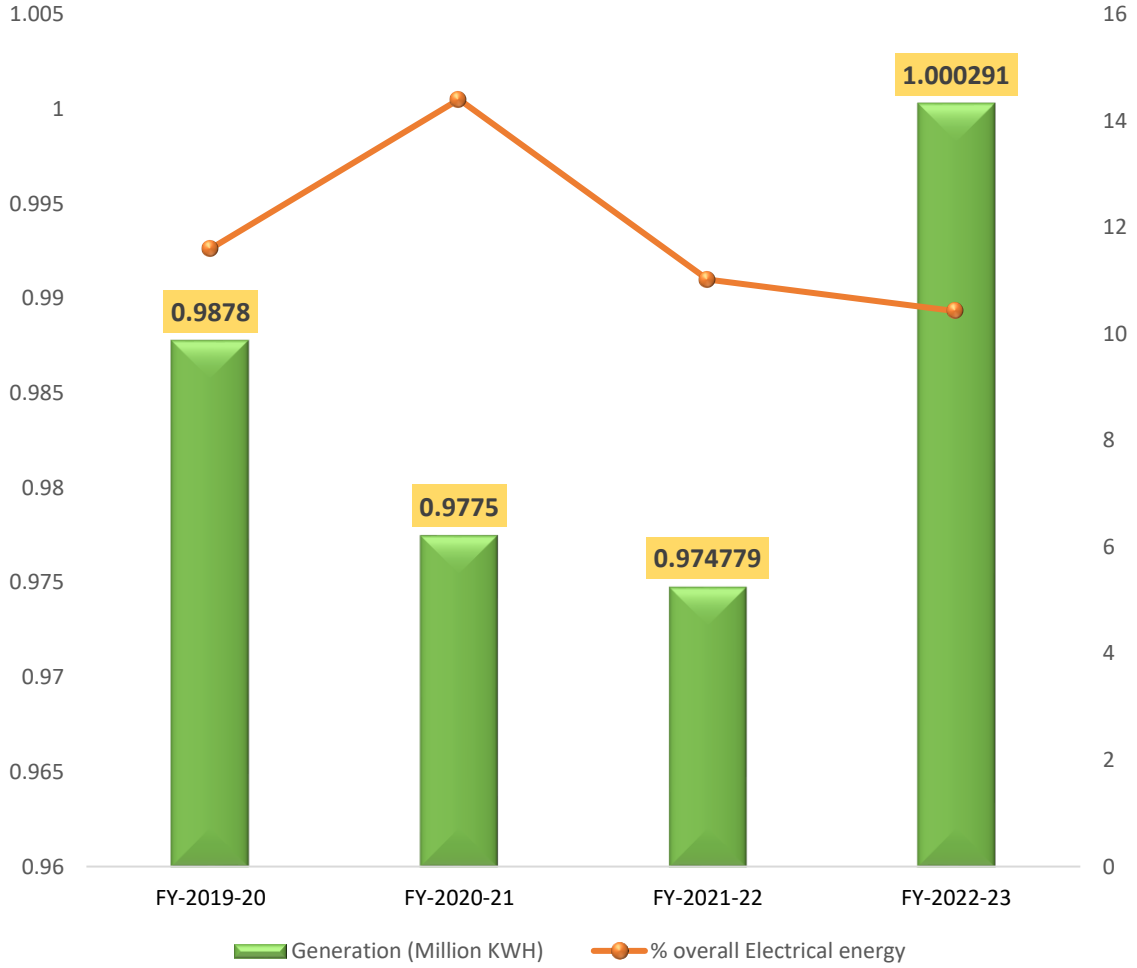
Year	Technology	Type of energy	Onsite / Offsite	Installed Capacity	Generation (Million KWH)	% overall Electrical energy
FY-2019-20	Solar Power Plant	Solar	Onsite	736 KWp	0.9878	11.6
FY-2020-21	Solar Power Plant	Solar	Onsite	736 KWp	0.9775	14.4
FY-2021-22	Solar Power Plant	Solar	Onsite	736 KWp	0.974779	11.02
FY-2022-23	Solar Power Plant	Solar	Onsite	736 KWp	1.000291	10.4287

PEWIN Present Capacity of Solar



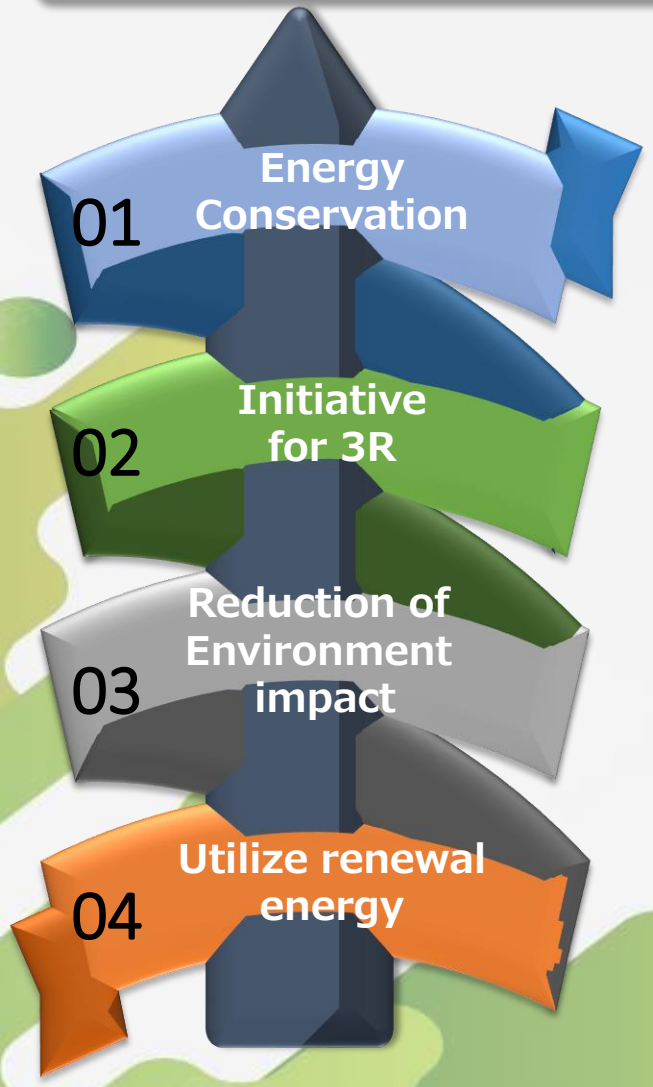
PAN India Solar Installed =4.231 MWp

4 Years Solar power Generation



STRATEGIC ACTION PLAN FOR ACHIEVEING NET ZERO BY 2030

Achieve Net zero in 2030

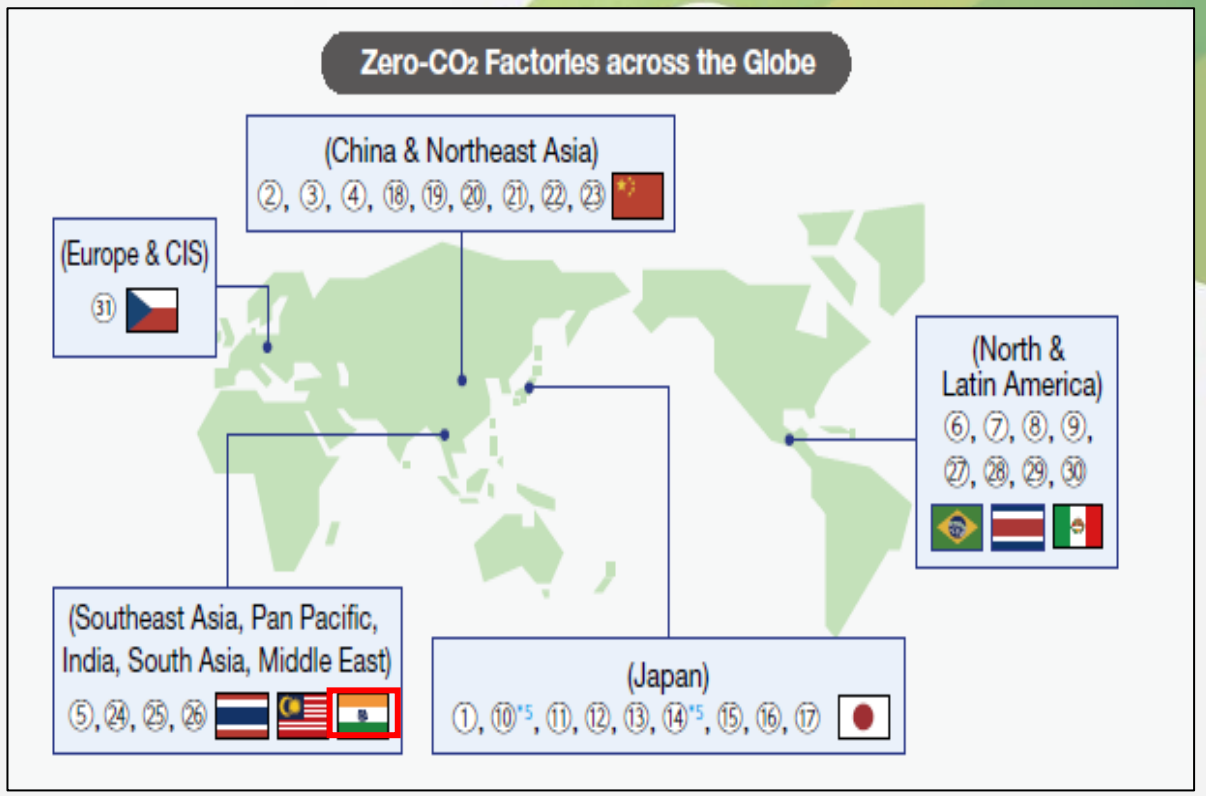


01
Every year Energy saving target for all PEWIN Units.

02
More emphasis for increase participation for 3R & energy contest year on year basis

03
PLSIND have Annual Environment plan & Energy plan for reduction and control on environment impact

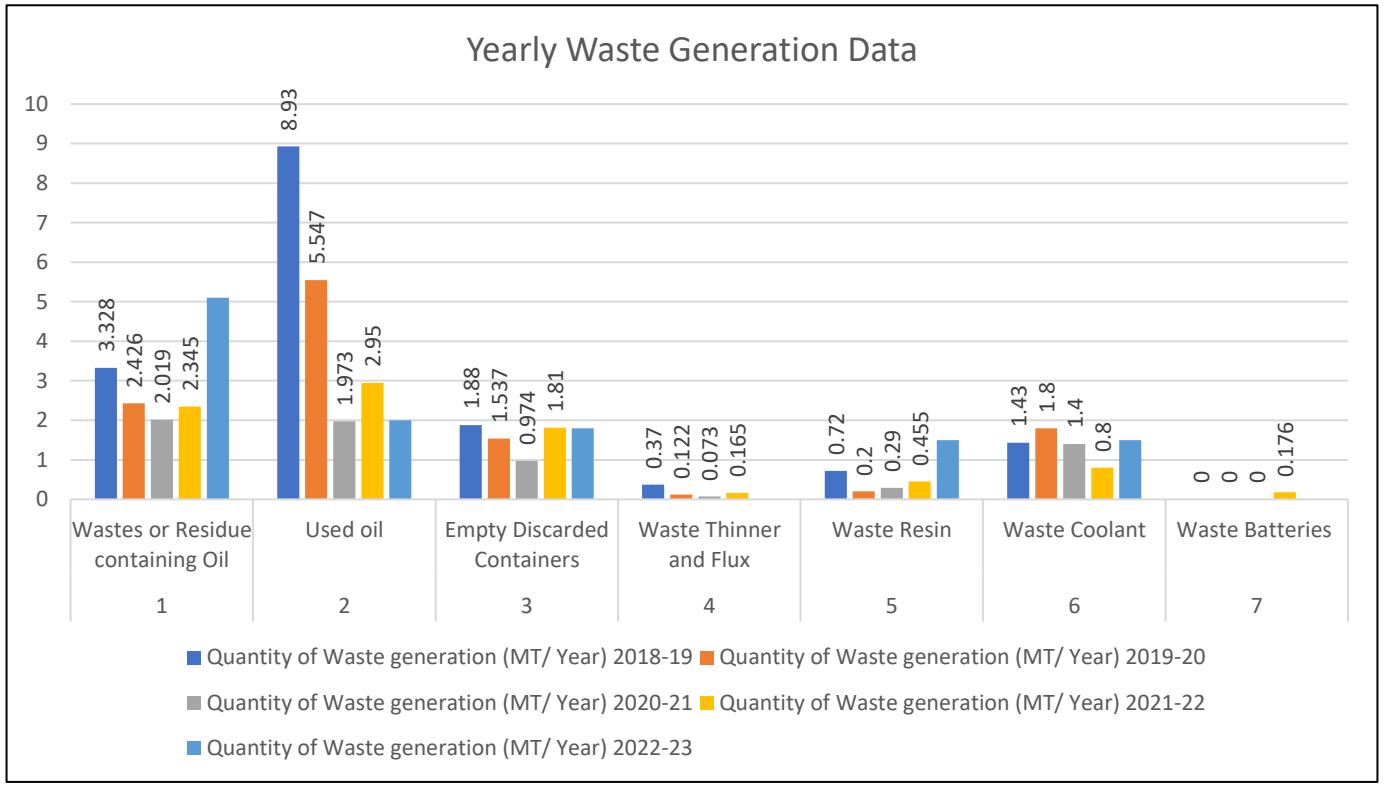
04
Year on Year increase capacity of renewable energy generation. 15% increase year on year after FY'25 plus REC procurement



- **Present Capacity of solar plant across PLSIND is 4.26 MW & expected capacity after expansion is 5.46 MW by March-24.**
- **Explore feasibility of renewable power generation by FY'23 and initiation for agreement activity.**

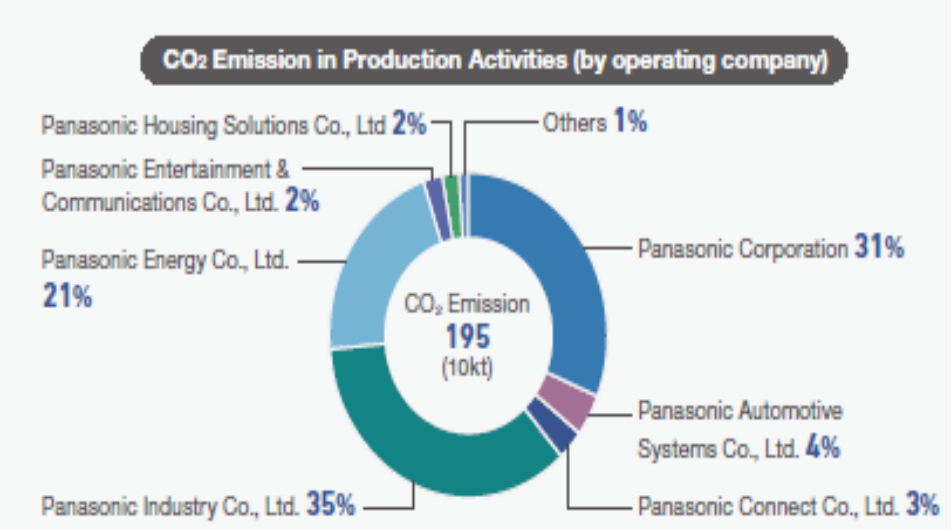
WASTE UTILIZATION AND MANAGEMENT

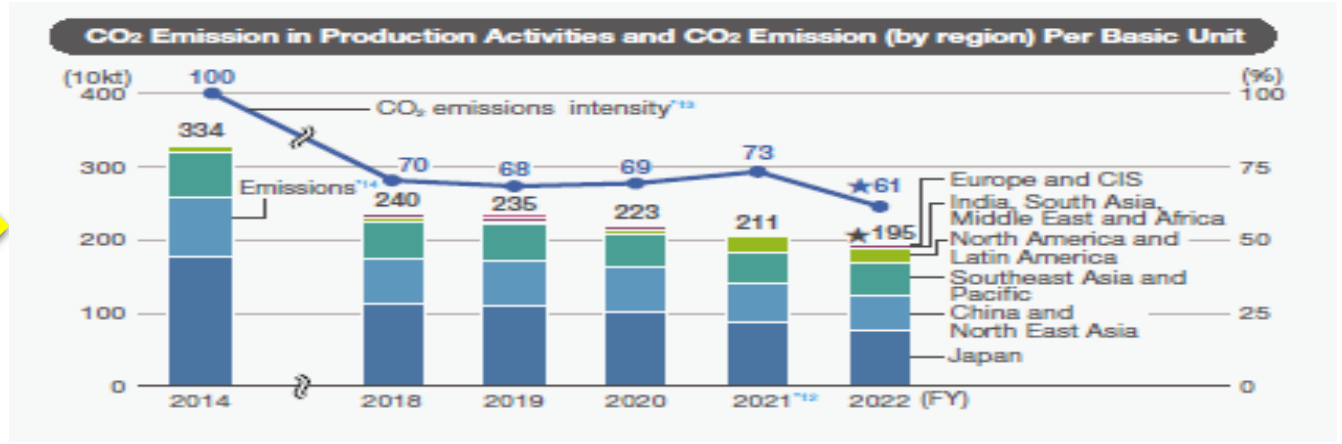
Sr. No.	UOM / Year / Type of Waste	Quantity of Waste generation (MT/ Year) 2018-19	2019-20	2020-21	2021-22	2022-23
1	Wastes or Residue containing Oil	3.328	2.426	2.019	2.345	5.1
2	Used oil	8.93	5.547	1.973	2.95	2
3	Empty Discarded Containers	1.88	1.537	0.974	1.81	1.8
4	Waste Thinner and Flux	0.37	0.122	0.073	0.165	0
5	Waste Resin	0.72	0.2	0.29	0.455	1.5
6	Waste Coolant	1.43	1.8	1.4	0.8	1.5
7	Waste Batteries	0	0	0	0.176	0
Total Water consumption		31538 KL	28393 KL	24271 KL	28149 KL	18318 KL
STP treated waste water used for gardening		22774 KL	20385 KL	14272 KL	18664 KL	21578 KL



The waste generation has increased by 5 % as the production has increased by 28.61 %.

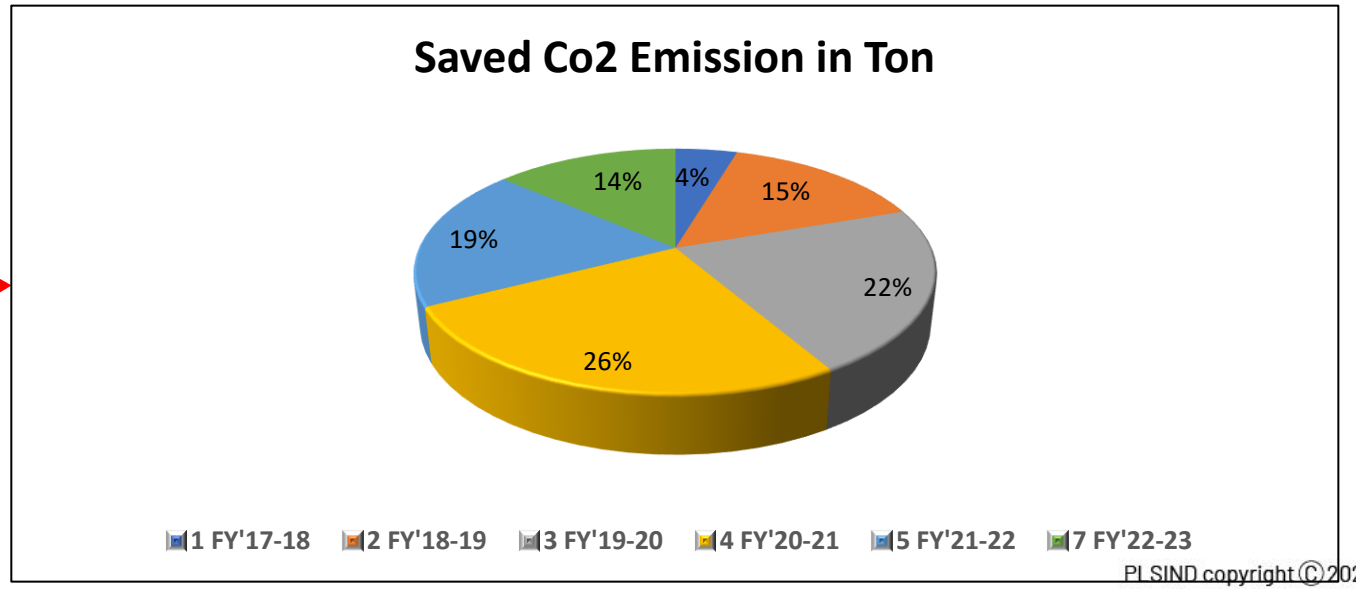
GHG INVENTARISATION – Monthly Energy results are being submitted on Panasonic Global portal





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_2 emission reduction



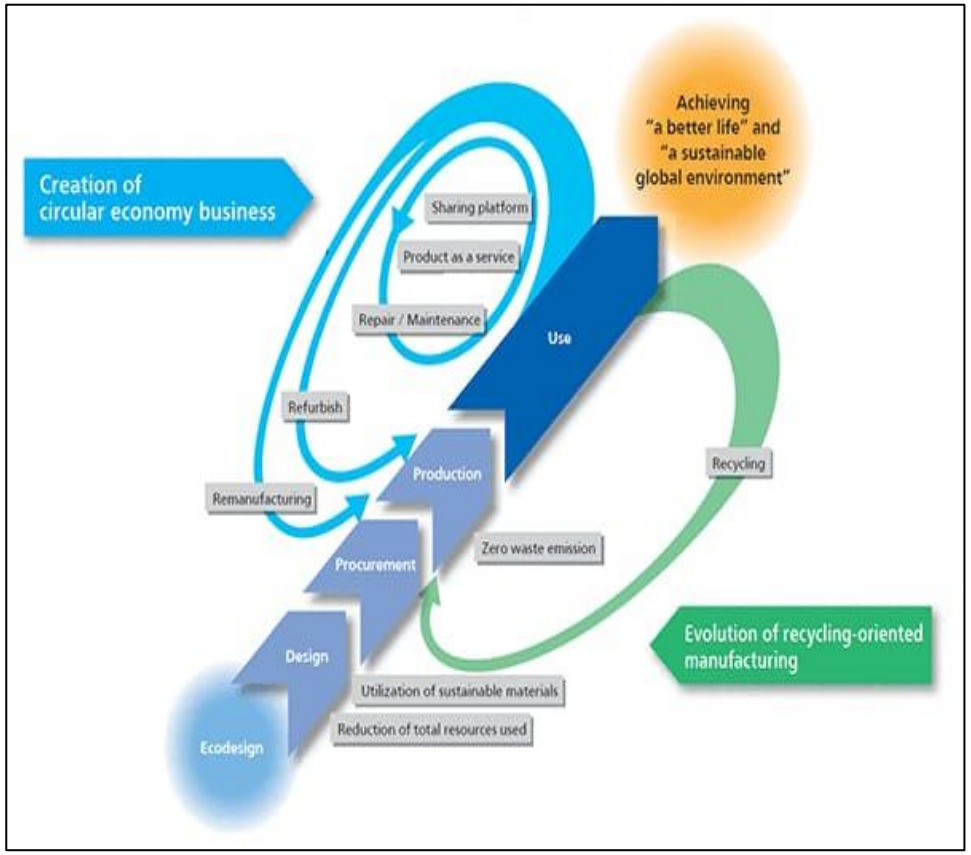
PANASONIC GROUP RELEASES GREEN IMPACT PLAN 2024

Outline of GREEN IMPACT PLAN 2024 and targets for FY2025	**▪ OWN IMPACT (Scope 1, 2, 3[*3]): Impact on emissions reduction from the Group's VC**	- CO_2 reduction: Target of 16.34 Mt	- Net-zero CO_2 emissions factories: 37 factories (7 factories already emissions-free at end of FY2021)
▪ CONTRIBUTION IMPACT: Impact on emissions reduction to society through existing businesses	- CO_2 reduction contribution to customers and society: Target of 38.3 Mt (23.47 Mt in FY2022)	**▪ 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 (5 businesses in FY2021)	

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)

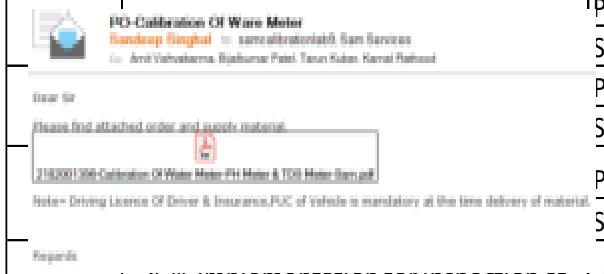
Item				Fiscal 2023 actual results	Fiscal 2025 targets	Fiscal 2031 targets
				GREEN IMPACT PLAN 2024		
Material issues	CO_2 / Energy	OWN IMPACT Emissions reduction in our own Value Chain*2		*6 – 21.70 Mt (9.39 Mt)	16.34 Mt	*7 31.45 Mt
		Scopes 1 &2*1	Zero- CO_2 factories	Total 31 factories	Total 37 factories	
			CO_2 reductions	0.36 Mt	0.26 Mt	
		Scope 3*1 (Category 11)	CO_2 reductions in use of our products by customers	– 9.1 Mt	16.08 Mt	
		CONTRIBUTION IMPACT Avoided Emissions for society*3		37.23 Mt	38.30 Mt	93.00 Mt
	Resources/ CE* *Circular Economy	Factory waste recycling ratio*4		99.1%	99.0%	
		Recycled resin used*5 (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	

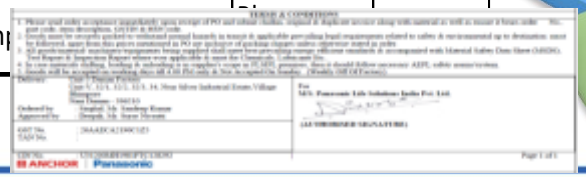


We will promote effective utilization of resources and maximization of customer value by creating circular economy business and evolving recycling-oriented manufacturing.

GREEN SUPPLY CHAIN MANAGEMENT SYSTEM

Green Supply Chain management action plan with										
Sr.No	Activity	Plan/Status	2017	2018			2021			
2	Communication to supplier									
3	Material inspection started as per green supply chain mechanism check sheet									
		Plan								
		Status								
		Plan								
		Status								
		Plan								
		Status								
7	25 % implementation for inspection at vendor's premises									
8	50 % implementation for inspection at vendor's premises	Plan								
		Status								
9	Continual im									





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.

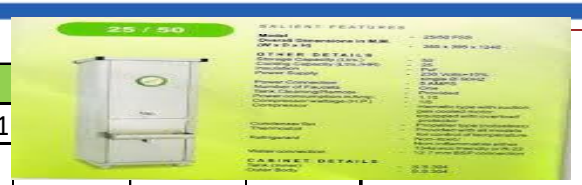
95% Air-conditioners replaced with eco-friendly gas.

Green Supply Chain Management

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

Only Energy efficient products are being procured in factory as an energy efficient factory.

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



Panasonic

POLICY

...e 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.

...other associate's competency

...nservation and green supply

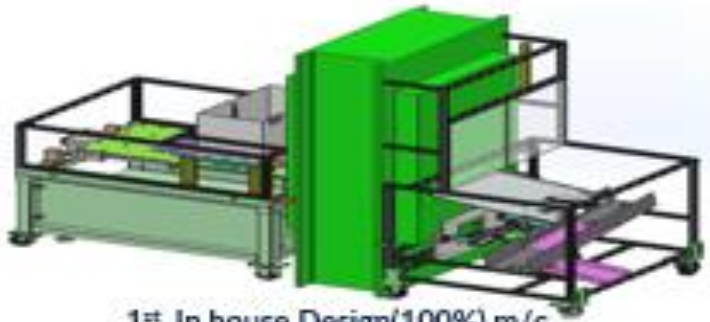
For Panasonic Life Solutions India Pvt. Ltd.

Automation Development Plan - Daman

Description	YTD (FY-15 – FY-20)	FY-21	FY-22	FY-23 Plan
No. of M/C Development	47	5	6	4
Manpower Saving	306	64	45	29
Investment (Mn. ₹)	98	28	30	13
Space Saving (m^2)	206	60	40	26

1st M/C
Auto Tapping 48 pc/min

Auto HV Testing M/c



1st In house Design(100%) m/c
Auto Feeder

Auto Moving Contact Riveting m/c Tact Time 1 sec/pc

Ziva Switch FG M/c
Tact time 1.25 sec/pc

INNOVATIVE KAIZEN IMPLEMENTATION

Theme :- Energy Saving in Screw Tightening Process by motor

Item

Safety improvement in Screw Tightening Process by motor in BS Riveting.

Before

230V AC Motor Capacity - 80W

Operator Electrical Safety Issue

After

24V DC Motor Capacity - 12W

Operator Electrical Safety.

Result

1) The motor is 24V DC – 12W. So its Low Power consumption. Total 80 consumed/Month (1338Rs.)
2) The Operator Don't Have Electrical Shock chance & Motor is cool so its safe not Safety Issue
3) The Motor is Small Size so Operator Seating Comfortable.
4) New motor so 0 Save Repairing cost

Motor Power Consumption Data

Parameters	Current	After	Benefit
Motor Type	230V AC - 80W	24V DC- 12W	
If 90 motor consumed (KWH)	7.2	1.08	**6.12**
Total consumed/Day (KWH)	57.6	8.64	**48.96**
Total consumed Unit/Day X (Unit Cost Approx.- 6 Rs)	345.6	51.84	**293.76**
Total consumed/Month (Rs.)	8985.6	1338.48	**7647.12**
Total consumed/Year (Rs.)	107827.2	16061.76	**91765.4**
Approx. Motor Rewinding & Repairing 60 No./Year cost (Rs.)	27213	0	**27213**
Investment 24 V Motor with adaptor total Approx. Cost 80 Nos. x 1650Rs. = 132000 Rs.			
Total Saving Cost Saving - 91765.44 + 27213 = 118978.44 Rs.			

How to (Solution Description)

1) The motor is 230V AC – 80W. So its Power consumption is more. Total 80 Motor consumed /Month (8985 Rs)
2) The Operator have Electrical Shock chance & Heating Problem. So it has Safety Issue.
3) Also, Size of Motor is big hence Operator Seating Issue
4) **Approx. Motor Rewinding & Repairing 60 No./Year cost (27200 Rs.)**

Start Theme	Start Contribution	Effective
Jul-22	Sep.22	1] safety level improved 2] CB Amount 0.012 Mn. INR

OTHER INNOVATIVE KAIZEN PROJECT BY ASSOCIATES

Reduction of the Electricity bill by Export of the solar power generated	*33,301 KWH/Year Saving*
Injection molding machine grinder interlocking with Main machine	*4776.0 KWH/year Saving*
Energy Saving in Screw fitting table by use of 24 Volt Motor in place of 220 Volt motor	*14688 KWH/Year Saving.*
Street light consumption reduction by replace solar street light appr	*4336 KWH/year Saving*
Reduce Air Leakage of plant various small kaizens	*15,840 KWH/Year Saving*
Installation of PIR Sensor in Main Stores Unloading Area	*720 KWH/ Year Saving*
Replacement of Air Guns with Energy Efficient Guns	*16500 KWH/Year Saving*
TOTAL ACTIVITY =	*7 Nos*
TOTAL SAVING (IN KWH) =	***89,511 KWH / Year***

IMPLEMENTATION OF ISO 50001:2018

TÜV NORD

CERTIFICATE

Energy Management System as per
ISO 50001 : 2018

In accordance with TÜV NORD CERT procedures, it is hereby certified that

PANASONIC LIFE SOLUTIONS INDIA PVT. LTD.
DAMAN - UNIT - 5 - Survey No. 32/1, 32/2, 32/3 & 34,
Near Silver Industrial Estate, Bhimpore,
Nani Daman - 396 210,
India
and other locations as per annexure

Panasonic

applies a management system in line with the above standard for the following scope

Design, Development, Manufacture and Supply of Switches, Plug and Sockets, Lamp Holders, Fan Regulators, Dimmer, Flexi Cord, Power Strip (Socket Guard), Bell, Fuse, Neon Lamp, Bell Indicator, Pop Up Box and their Sub Assemblies.

Certificate Registration No. 44 784 18391665
Audit Report No. 2.5-8121/2017

Valid from 03.12.2020
Valid until 02.12.2023
Initial certification 15.02.2018

Certification Body
at TÜV NORD CERT GmbH

Mumbai, 03.12.2020

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH Langemarckstrasse 20 45141 Essen www.tuev-nord-cert.com

TÜV India Pvt. Ltd. 801, Raheja Plaza – 1, L.B.S. Marg, Ghatkopar (W), Mumbai - 400 086, India www.tuv-nord.com/in

IAF DAkkS

PLSIND Unit—05 is EnMS Certified Since Nov-17 & it's Transition form ISO 2011 to ISO 2018 has been Implemented in Oct'20.

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

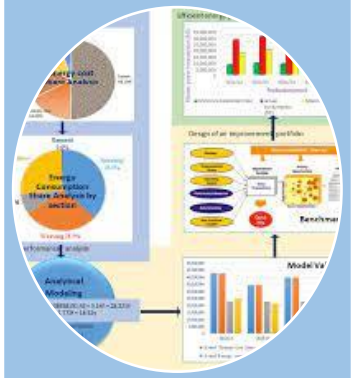
Regular Energy review and monitoring is being done

Energy awareness programmes are being planned on regular basis

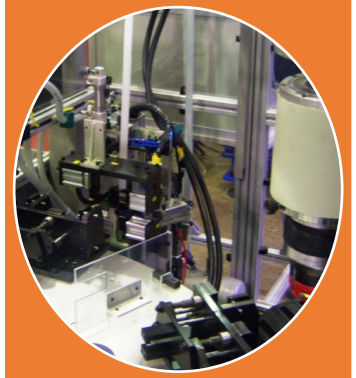
More Emphasis given for procuring energy efficient products.

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

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-5 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

INTERNL 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

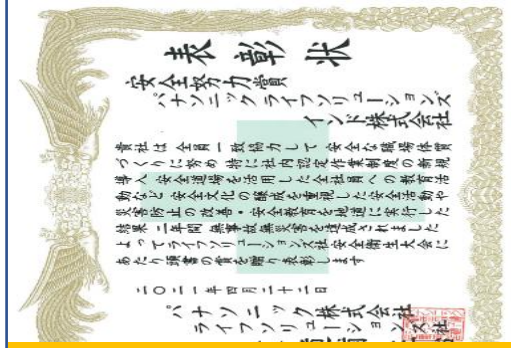
Director in Charge of HR

Toru Kanno

Life Solutions Company,

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

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

Eiji Maruyama Vice President

LS Environmental Conservation Officer

Certificate of Commendation from LS 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

件名：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

貴グループは首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5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

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

Reducing CO2 emission in Factories

Actions for environment PEWIN

Recognition & awards to PEWIN – FY-20.

❶ For Energy Management

Awarded by CII for Energy Efficient Unit for Daman Unit-5

❷ For Waste Management

Awarded by Apex India Foundation –For Best waste management practice to Daman U5

❸ For Water Management

Awarded by Apex India Foundation –For Best Water management practice Haridwar U2.

❹ For Environment Management

Daman Unit-04 Declared as winner for Golden Peacock Environment management Award-2020

Recognition & awards to PEWIN – FY-21.

❶ For Energy Management

Awarded by CII for Energy efficient unit for Daman Unit-5

❷ For Energy Conservation

Awarded by CII for Energy efficient unit for Haridwar Unit-1

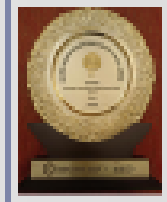
❸ For Environment Management

National Award for Environment Best Practice-2021 by CII

❹ For Energy Conservation

WCT Kutch Unit Declared as winner for Golden Peacock Energy Efficiency Award-2021

Recognition & awards to PEWIN – FY-22.



❶ For Safety Management

Daman Unit-04 Declared as winner for Golden Peacock Safety management.

❷ For Energy Conservation

Awarded by CII for Energy efficient unit for Daman Unit-5

❸ For Energy Conservation

Awarded by CII for Energy efficient unit for Kutch

❹ For Energy Conservation

Awarded by CII for Energy efficient unit for Haridwar U-1

PEWIN received Monozukuri Award from Panasonic Corporation for its Environmental activities.

Save Energy Today for Brighter Tomorrow

THANK YOU