PRESENTATION ON 23rd NATIONAL AWARD FOR EXCELLENCE IN ENERGY MANAGEMENT

Panasonic

PANASONIC LIFE SOLUTIONS INDIA PVT LTD.

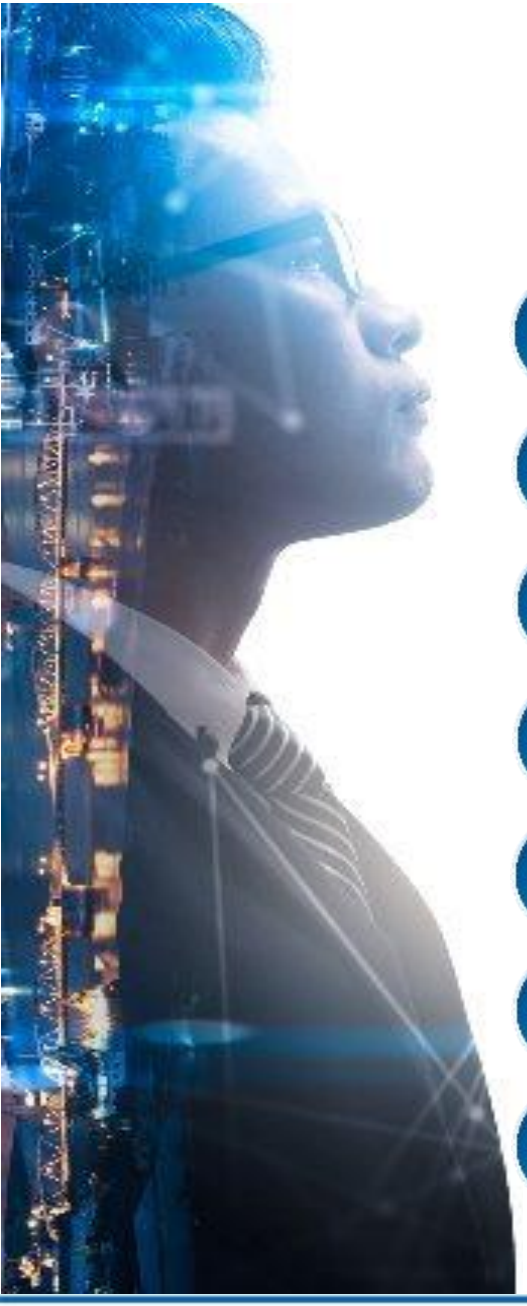
Unit-05, Daman

Mr. Ashish Singh
Pan India Head- Facility Management & EHS,
Factory Manager- Daman Unit-05
CII Certified Energy Efficiency professional

Mr. Viral Vadgama
Asst. General Manager-Facility Management
CII Certified Energy Efficiency professional

Mr. Bijalkumar Patel
Manager-Facility Management
(Certified Energy Auditor and Manager)
CII Certified Energy Efficiency professional

Mr. Brijrajsinh Rana
Executive Engineer – Facility Management



CONTENTS

Panasonic

Life Solutions India Pvt. Ltd.

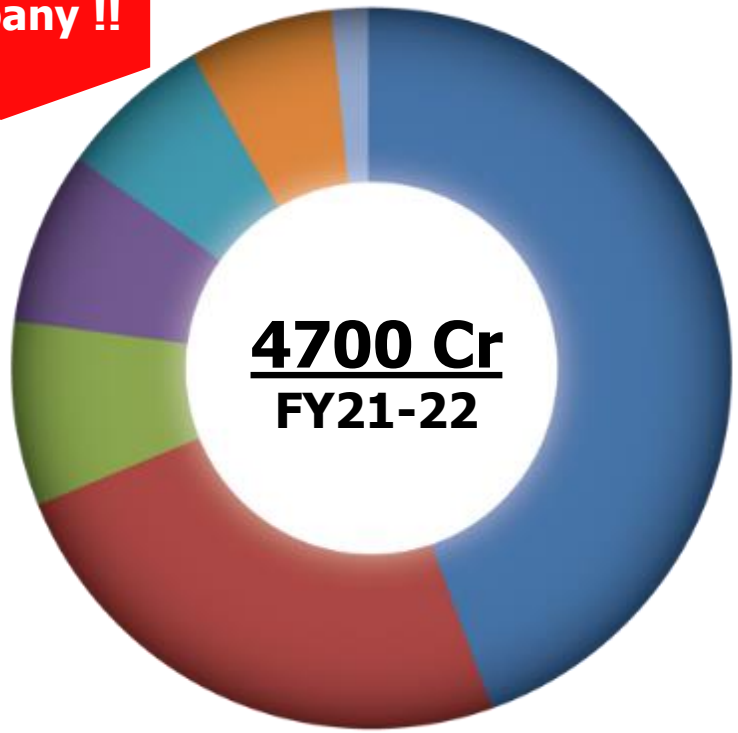
(Formerly known as)

Anchor Electricals Pvt Ltd.

Not just a Switches Company !!

A global enterprise that manufactures cutting edge electrical products

Established	1963
Revenues Million	USD 501+
Organization Strength	9000+



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

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.

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.

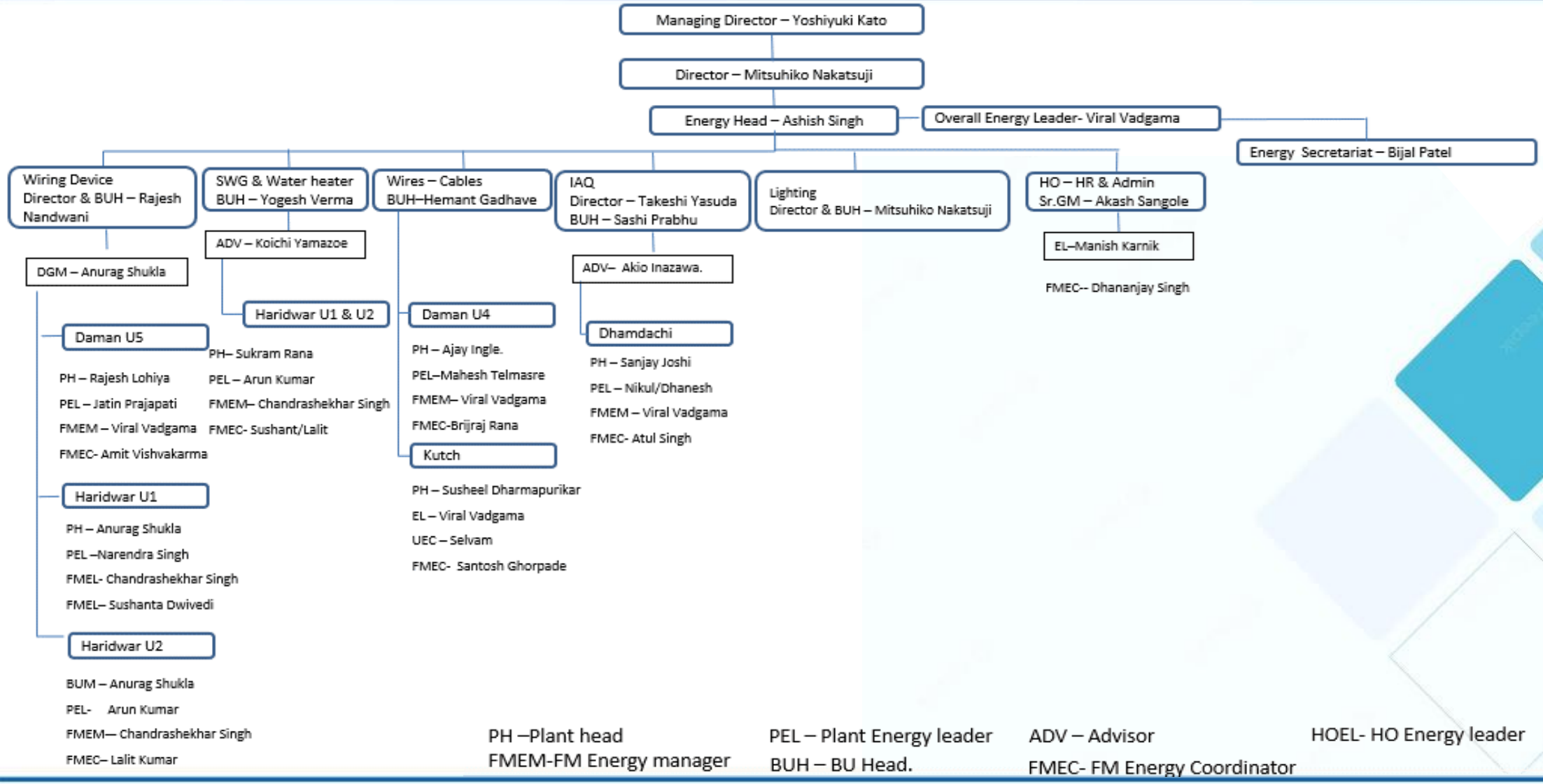
We will have special focus on:

- 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.

Kazuki Yao
Managing Director (Occupier)
Date: 01.05.2021

ORGANOGRAM FOR THE ENERGY CELL



PH –Plant head
FMEM-FM Energy manager

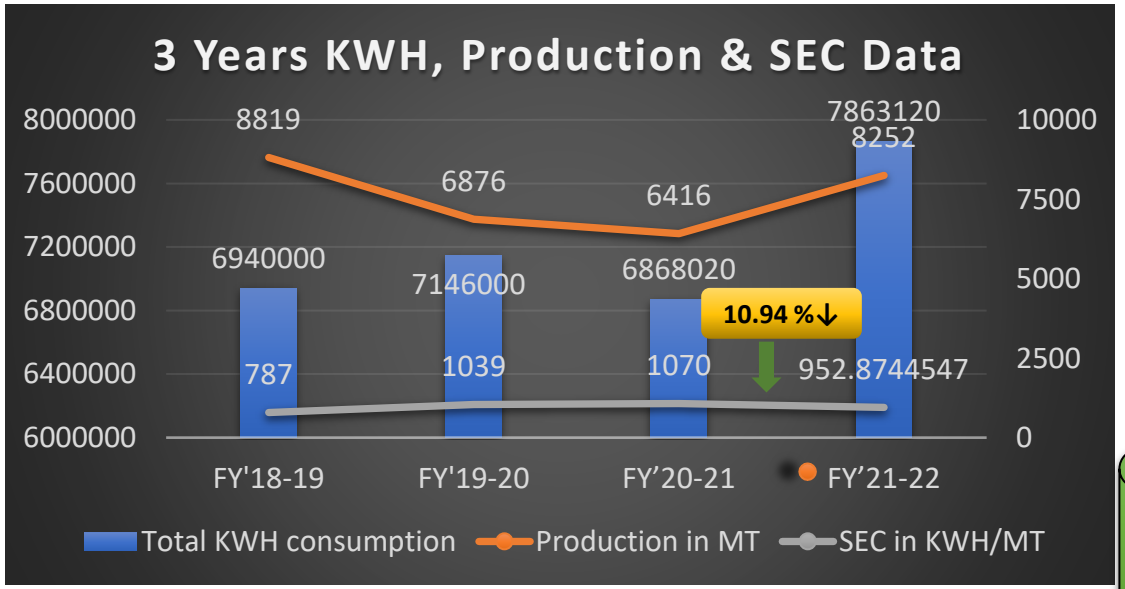
PEL – Plant Energy leader
BUH – BU Head.

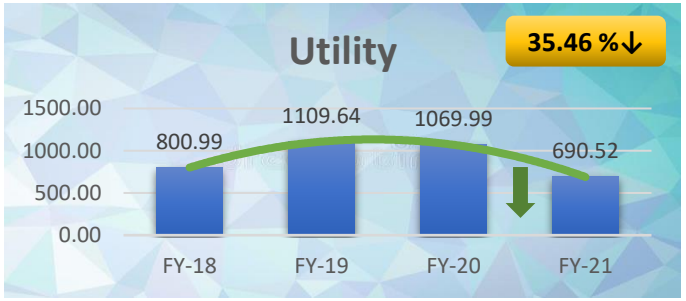
ADV – Advisor
FMEC- FM Energy Coordinator

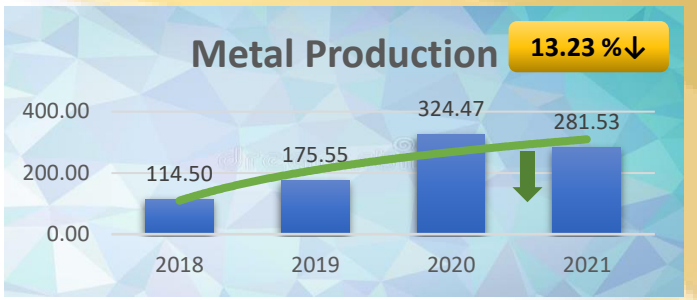
HOEL- HO Energy leader

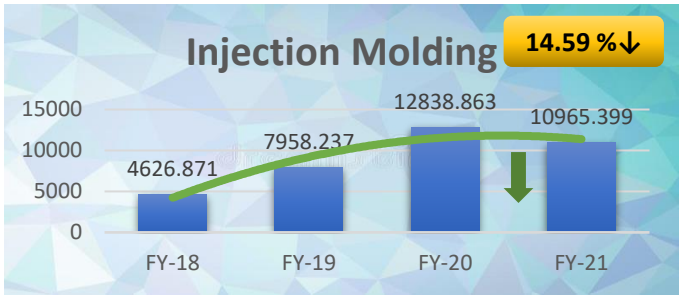
OVERALL PRODUCTION ,ENERGY AND SEC DATA - (FY 18-19 to 21-22)

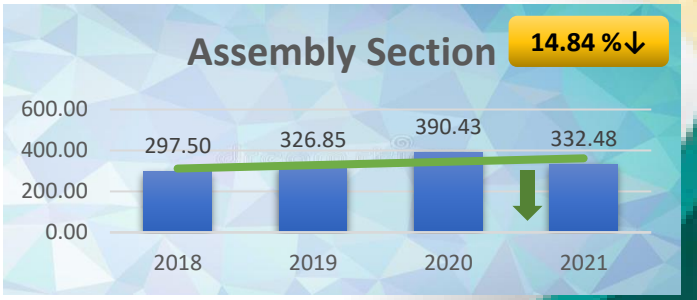
Year	Total KWH consumption	Production in MT	SEC in KWH/MT
FY'18-19	6940000	8819	787
FY'19-20	7146000	6876	1039
FY'20-21	6868020	6416	1070
FY'21-22	7863120	8252	953

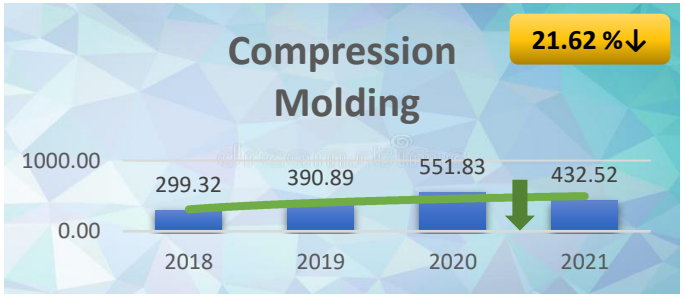


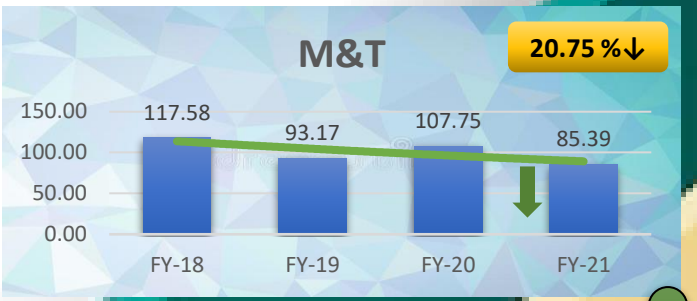








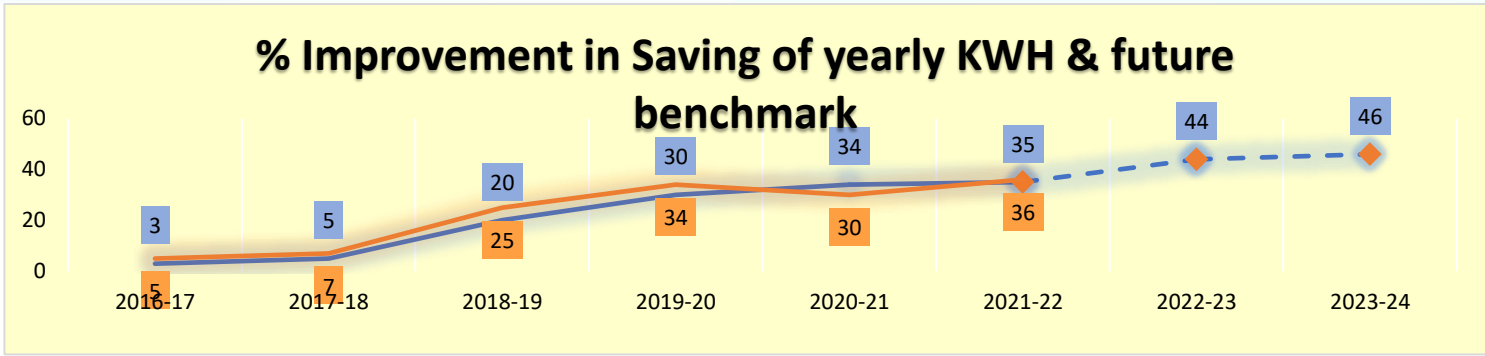




Overall SEC has been reduced by 10.94 % as All area SEC had reduced.

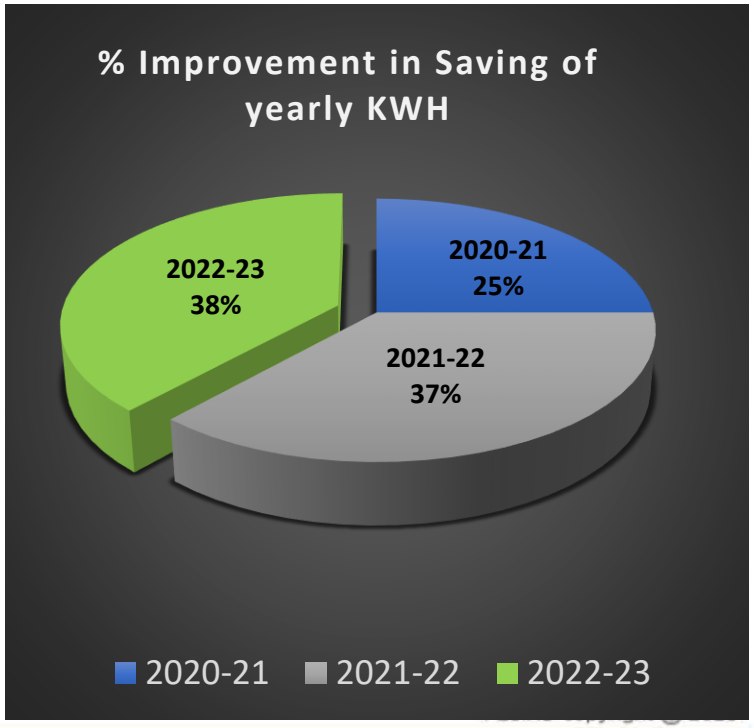
BENCHMARKING

Sr. NO.	Year	Yearly Electrical energy consumption (KWH)	Yearly Saving (KWH)	% Improvement in Saving of yearly KWH
1	2017-18	7344000	537924.5	7
2	2018-19	6940000	1766560	25
3	2019-20	7474000	2566676	34
4	2020-21	6868020	2054126	30
5	2021-22	7863120	2810589	35



Sustainable Achievements			More Sustainable Competitors	Less Sustainable Competitors
Comparative Analysis	Panasonic Global	Panasonic National	Competitor - 1	Competitor - 1
Renewable Energy Resources	32000 MW	2.9 MW	5.60 MW	<1.0 MW
Comparative Analysis	Panasonic Global	Panasonic 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 2021-22

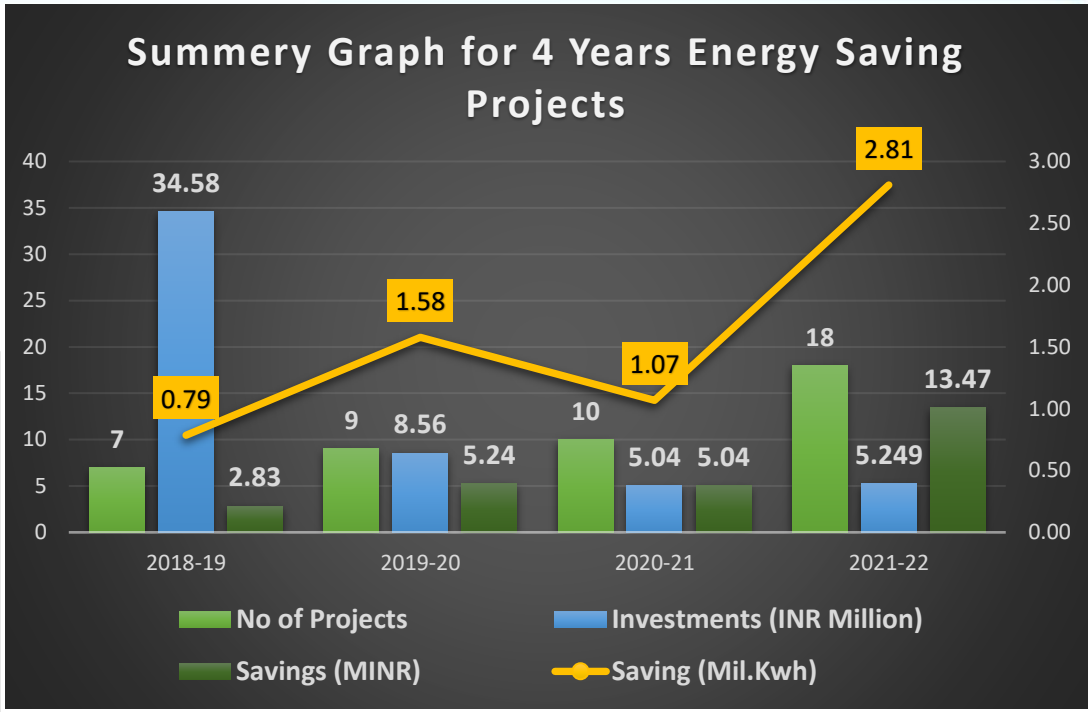
Sr. No	Title of Project	Annual Electrical Saving (kWh)	Annual Electrical Cost Saving (Rs million)	Payback (Months)	Comments
1	Reduction in Energy consumption by reducing operating frequency of STP blower motor at Factory and Commercial building STP and motor replacement to energy eff motor	30962	0.1461	0	Inhouse
2	Energy Conservation In Multiform Ing Machine	12960	0.061	0	Inhouse
3	Energy Conservation in Air-compressor by adopting innovative advance technology	184614	0.8684	9.67	Technology upgradation
4	Conversion of Elgi air-compressor (Commercial building) from fixed speed to Variable speed	23288	0.109	9.91	Technology upgradation
5	Energy conservation through improvement in productivity by 200% in dehumidifiers of Injection Molding machines	165672	0.7788	0	Inhouse
6	Reduce Air wastage by installing Pneumatic Valve controlling at Compression molding section	324000	1.53	0.2	Inhouse
7	Reduction in plant area air leakages - 6% Energy saving of total consumption of air-compressor	4776	0.224	0	Inhouse
8	Energy saving by reducing use of conveyer of injection molding machine by interlocking conveyer with machine	11292	0.0532	0	
9	Generation of renewal energy i.e., solar power generation	984538	4.65	0	
10	Reduced energy consumption by installation of motion sensor in 50 nos. light, Energy Saving	4320	0.0204	2.94	Technology upgradation
11	Reduced assembly area air-conditioners energy consumption by procuring energy efficient air-conditioner at Unit-05	160494	0.7591	36.36	Technology upgradation
12	Reduced energy consumption by installation of drive in Cooling tower fan and STP Air blower	12484	0.059	8.95	Technology upgradation
13	Reduced energy consumption by replacing CFL Lighting to LED in Canteen, Locker room, Washroom and Staircase Areas,	27648	0.131	0.46	Technology upgradation
14	Energy saving by utilizing cell fans instead of AC after regular shift 4:15 PM Energy saving	282963	1.3384	2.87	Innovative thinking
15	Reduce energy consumption by manufacturing molds with higher Cavities to reduce machine loading time Energy saving	66560	0.3148	0	In-house
16	Energy saving by installation of LED streetlight in place of conventional streetlight - Energy Saving	8985	0.0424	25.47	Technology upgradation
17	By increase utilization of Thyristor based APFC panel and install Active filter in the plant (Servo Controlled Machines) (Reduction of electricity by 2%)	504313	2.3854	8.05	Technology upgradation
18	Energy Efficient sludge pump set installation in both STP	720	0.003406	246.62	Technology upgradation
Total		**2810589**	**13.474406**	**4.96**	

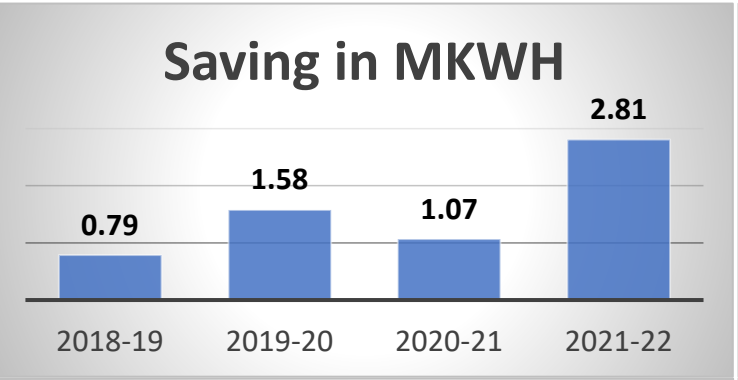
MAJOR E-CON PROJECTS FOR FY 2022-23

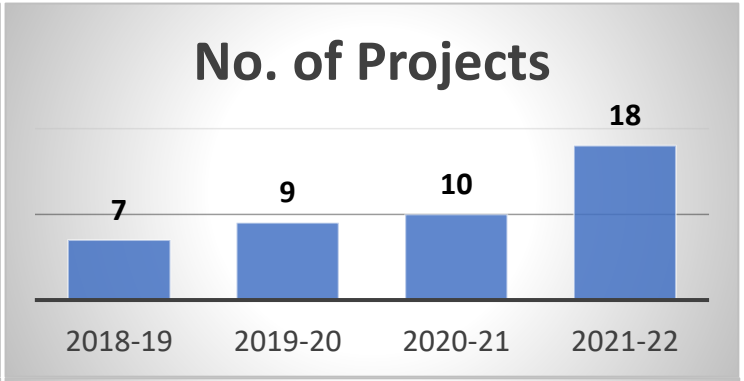
Sr. No	Title of Project	Annual Electrical Saving (kWh)	Investment (Rs million)	Payback (Months)	Comments
1	Controlling of the air at shop floor area for Auto turning off ie approx. 1.0 %	7680	0	0	Inhouse
2	Reduction in energy consumption by installation of Drive at cooling tower Pump. Ie approx. 5.2 %	10260	0.3	68	Technology Upgradation
3	Replacement of Air Guns with Energy Efficient Guns (10 Nos. of Guns) 12 % Energy Saving	16500	0.015	2	Technology Upgradation
4	Energy saving by 20% by replacement of less cavity molds with higher cavity molds (04 Nos of Molds)	14890	0	0	Modification
5	Installation of PIR Sensor in Main Stores Unloading Area for energy saving.ie 50 %	7200	0	0	Technology Upgradation
6	Reduction in Power consumption by replacing old hydraulic machine with new all electric injection molding machine (4 Nos of Machines) approx. 30 % Less power consumption compared to previous Machine	17280	16	2157	Technology upgradation
7	Reduction of the energy consumption in the screw fitting table by use of 24 Volt Motor for the Screwing in place of 220 Volt motor 85 %	14800	0.05	8	Modification
8	Energy saving at our existing Old fixed speed AC with VRV AC i.e. approx. 5.0 % for MCD & Design office	93720	1.8	45	Technology Upgradation
9	Energy saving at our existing RO plant by replacing with energy efficient RO plant i.e. 31 %	1740	0.3	402	Technology Upgradation
10	Reduction in energy consumption by reducing compressed air uses inside plant by closing all leakages .i.e. 6.3 % Reduction	46000	0	0	Inhouse Control
11	Reduction in energy consumption by installation of Energy efficient motor at STP blower. I.e. approx. 5% by installing of I4 motor	2430	0.08	77	Technology Upgradation
12	Street light Energy consumption reduction using solar street light at the plant area-Approx. 0.62 %	4330	1.4	753	Technology Upgradation
13	10% HVAC Consumption Reduction by cooling Area reduction ie Installation of PVC Curtains/ Wall at the injection Molding Machine for Cooling and reduction of Consumption	49100	1	47	Inhouse
Total		**285930**	**20.95**		

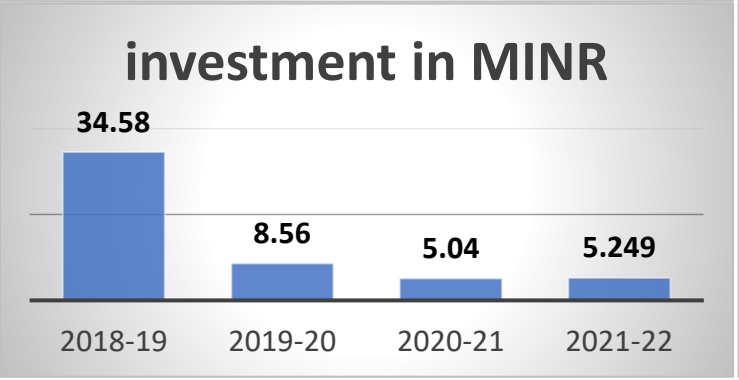
ENERGY SAVING PROJECTS IMPLEMENTED IN LAST 4 YEARS

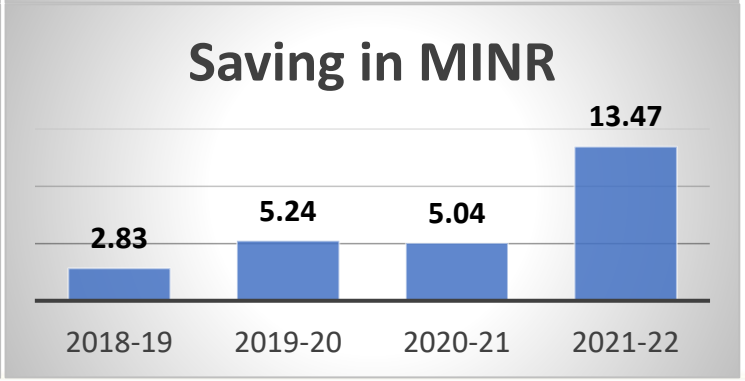
Year	No of Projects	Investments (INR Million)	Saving (Mil.Kwh)	Savings (MINR)
2018-19	7	34.58	0.79	3.6
2019-20	9	8.56	1.58	5.23
2020-21	10	5.04	1.07	5.04
2021-22	18	20.95	2.81	13.47









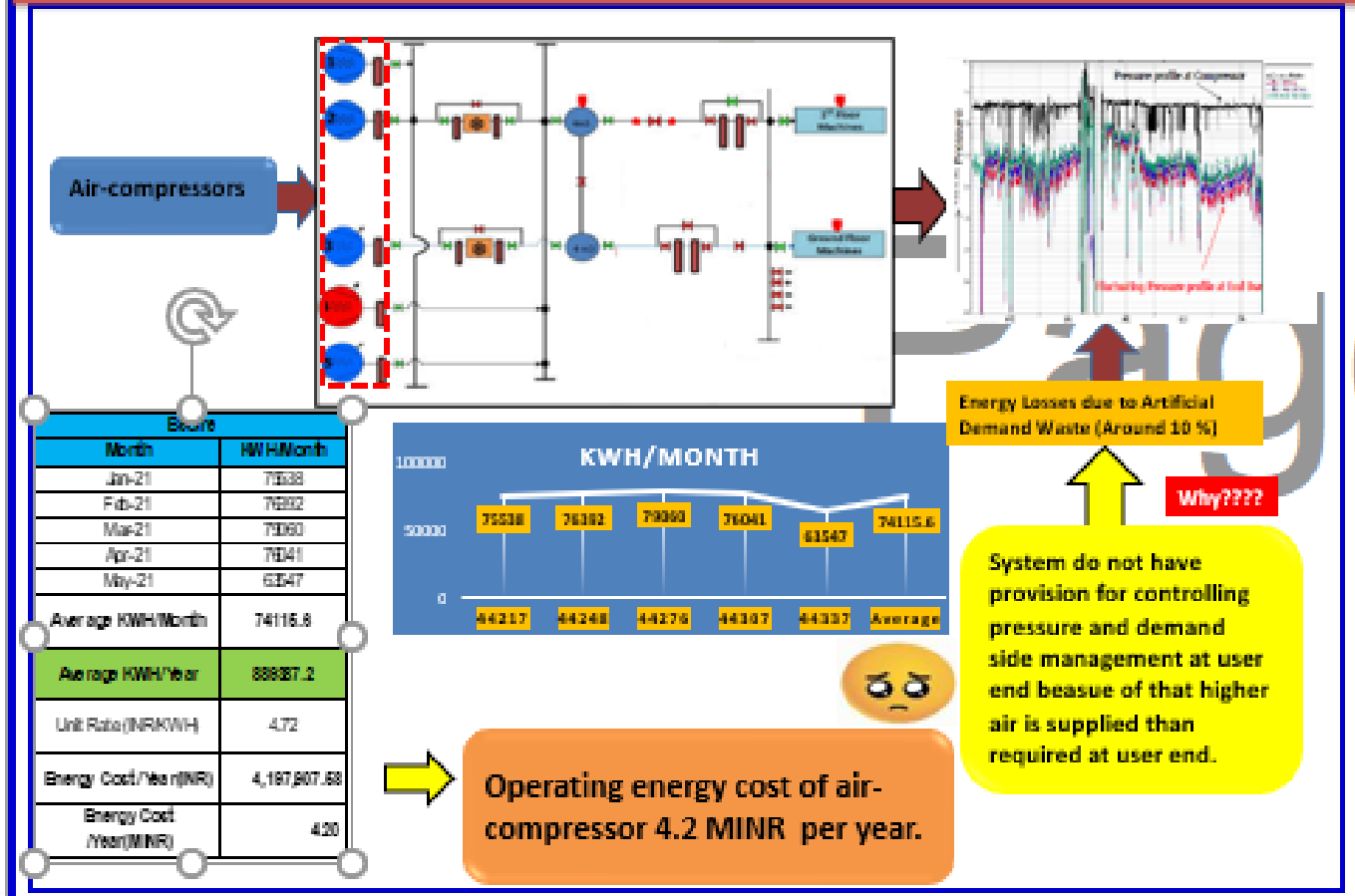


INNOVATIVE PROJECT IMPLEMNETATION

Activity Theme: Energy Conservation in Air-compressor by adopting innovative advance techology

Before improvement

Compressed air supply is direct from Air-compressors to plant area- **No control on Demand side**

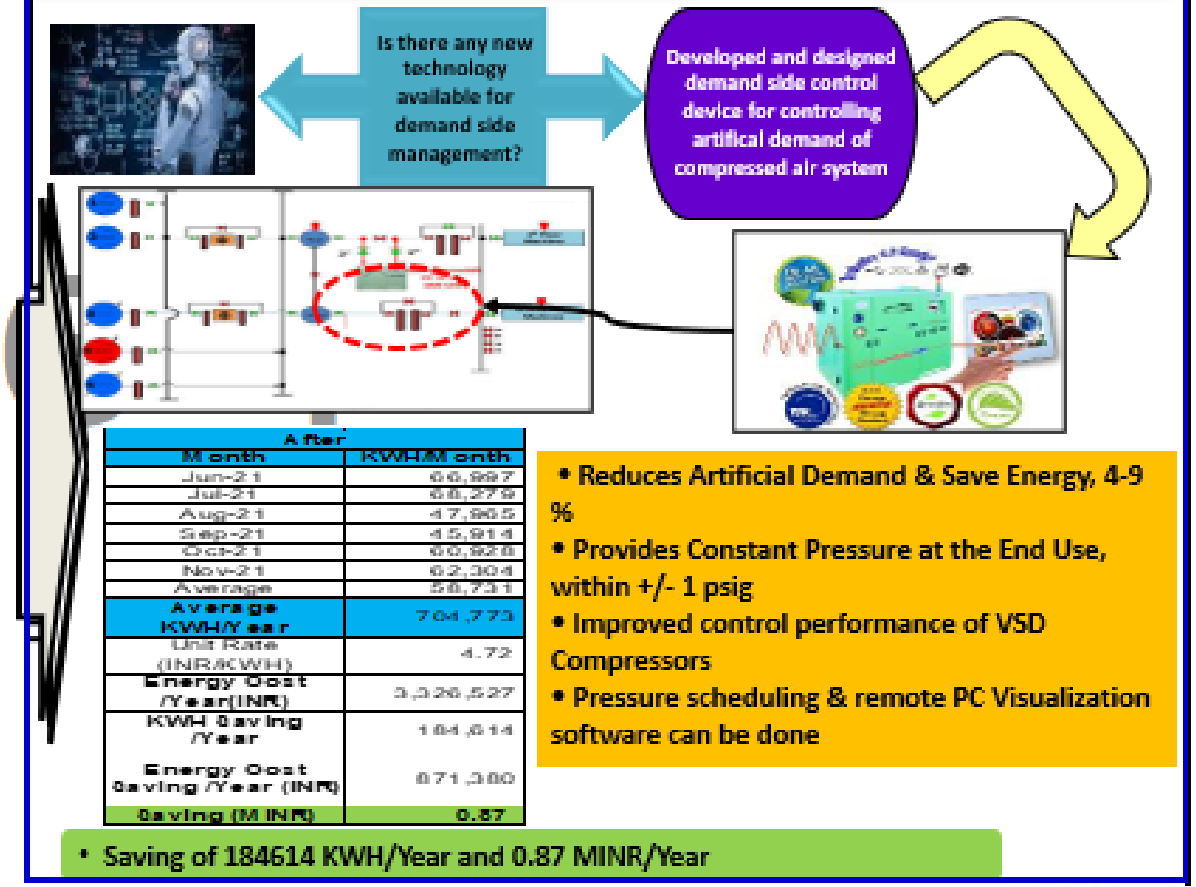


Excel

Month	KWH/Month
Jan-21	76338
Feb-21	76282
Mar-21	76360
Apr-21	76041
May-21	63547
Average KWH/Month	74115.8
Average KWH/Year	889387.2
Unit Rate (INR/KWH)	4.72
Energy Cost /Year(INR)	4,197,807.68
Energy Cost /Year(MINR)	420

After improvement

Compressed air supply is through IFC (Flow control system) to various department of plant- **Demind side control**



After

Month	KWH/Month
Jun-21	60,997
Jul-21	68,279
Aug-21	47,965
Sep-21	45,914
Oct-21	60,928
Nov-21	62,304
Average	58,731
Average KWH/Year	704,773
Unit Rate (INR/KWH)	4.72
Energy Cost /Year(INR)	3,326,527
KWH Saving /Year	184,614
Energy Cost Saving /Year (INR)	871,380
Saving (M INR)	0.87

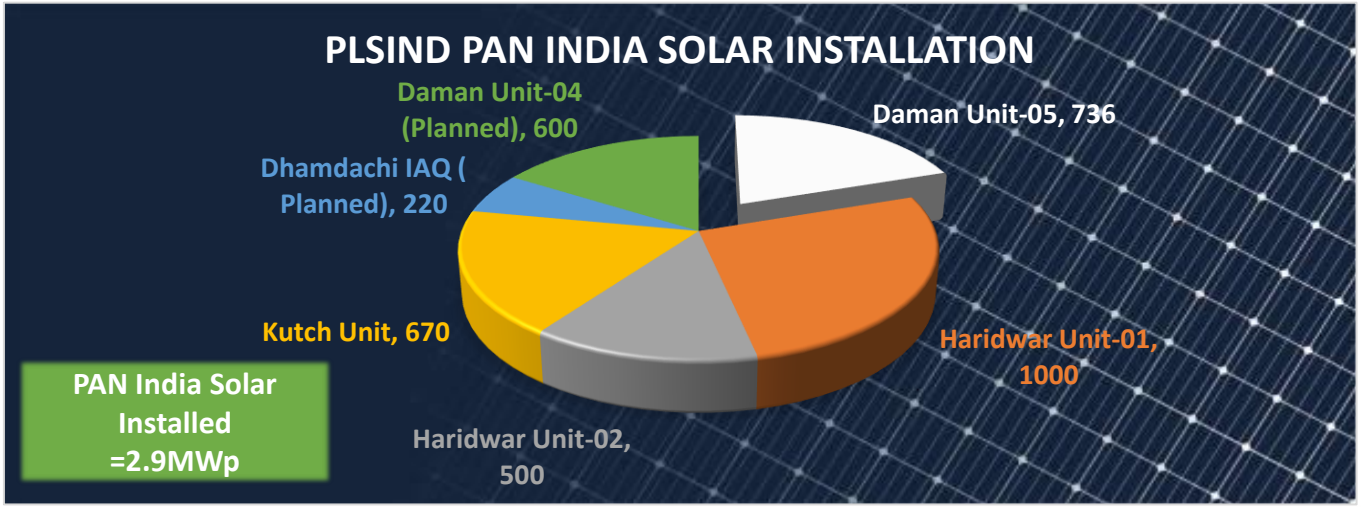
- Reduces Artificial Demand & Save Energy, 4-9 %
- Provides Constant Pressure at the End Use, within +/- 1 psig
- Improved control performance of VSD Compressors
- Pressure scheduling & remote PC Visualization software can be done

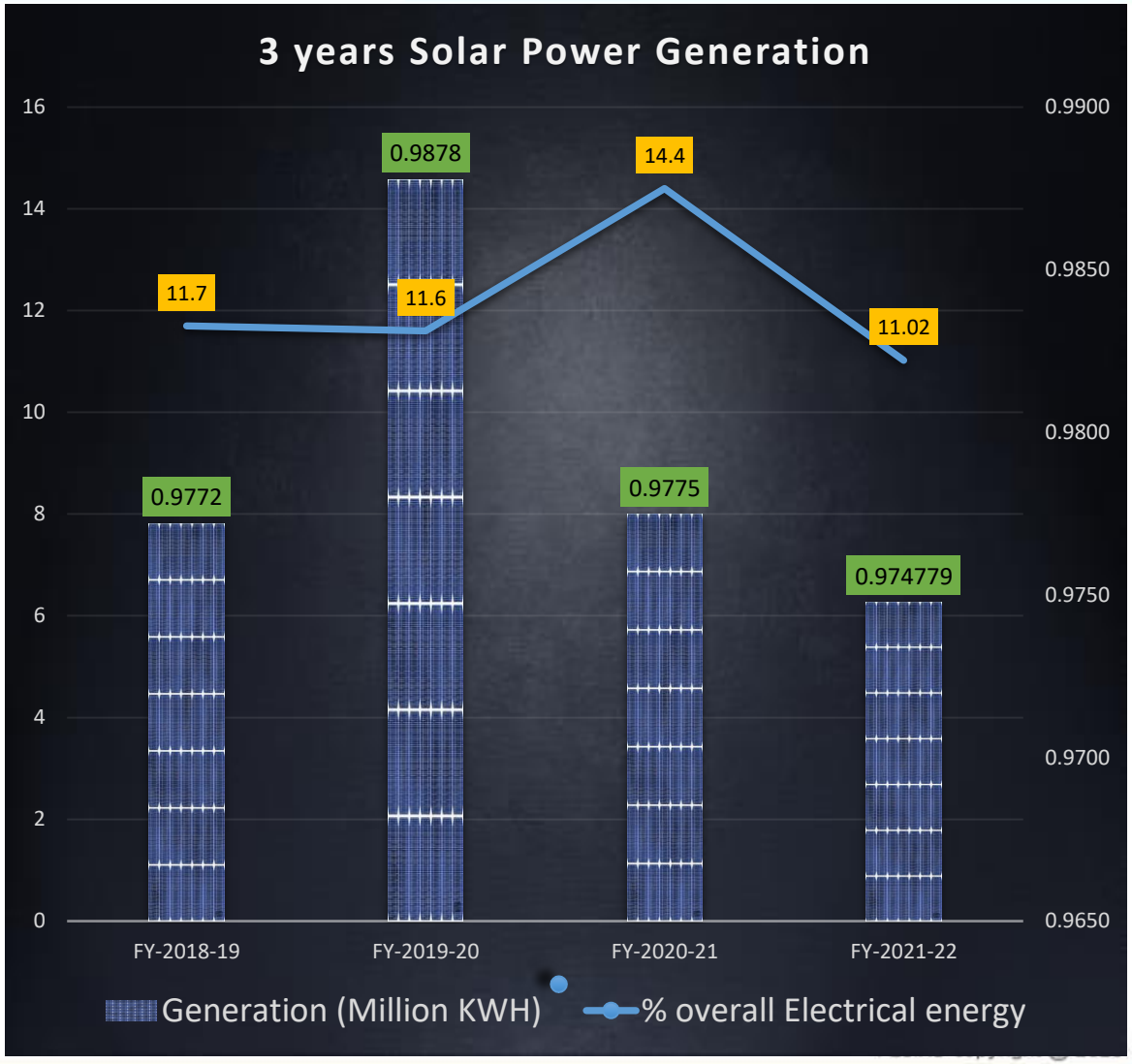
- Saving of 184614 KWH/Year and 0.87 MINR/Year

UTILIZATION OF RENEWABLE ENERGY RESOURCE

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

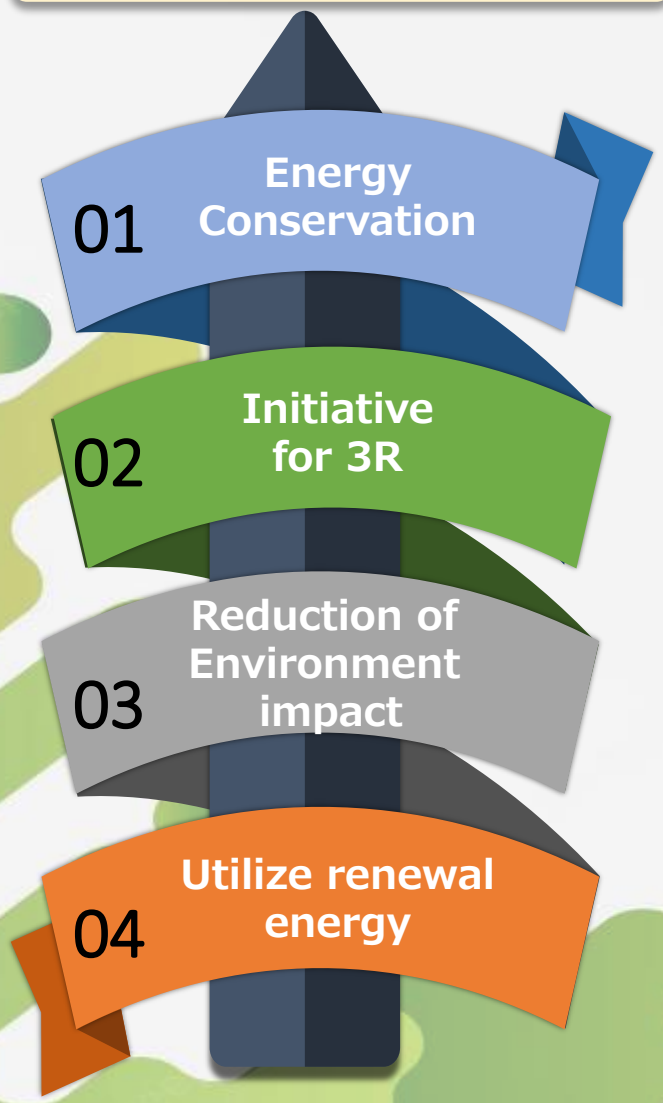
Year	Technology	Type of energy	Onsite / Offsite	Installed Capacity	Generation (Million KWH)	% overall Electrical energy
FY-2018-19	Solar Power Plant	Solar	Onsite	736 kWp	0.9772	11.7
FY-2019-20	Solar Power Plant	Solar	Onsite	736 KWp	0.9878	11.6
FY-2020-21	Solar Power Plant	Solar	Onsite	736 KWp	0.9775	14.4
FY-2020-21	Solar Power Plant	Solar	Onsite	736 KWp	0.974779	11.02





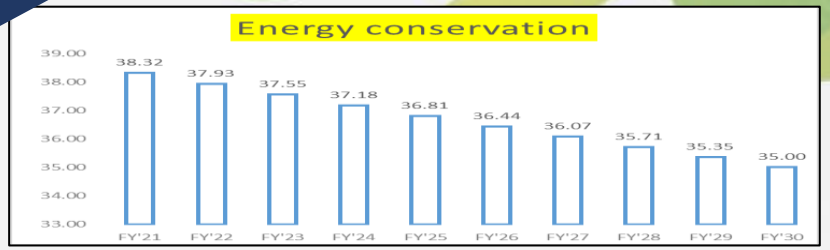
STRATEGIC ACTION PLAN FOR ACHIEVEING NET ZERO BY 2030

Achieve Net zero in 2030

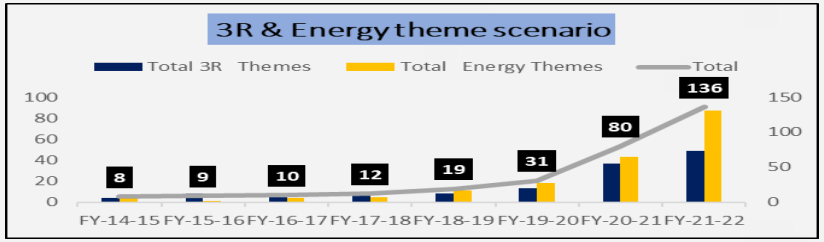


PLSIND by company-wide top management
Motivation for each BU, each base, each employee
⇒ Goal setting subdivision

01
Every year 3% energy saving target for all PLSIND Units

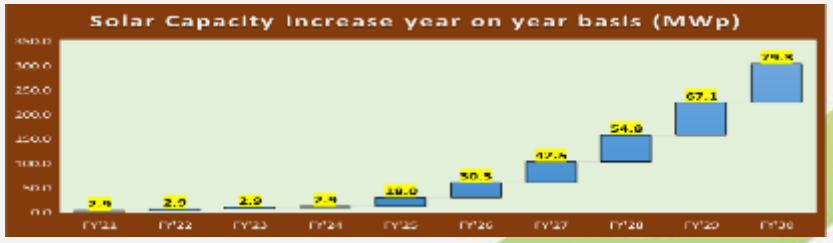


02
More emphasis for increase participation for 3R & energy contest year on year basis



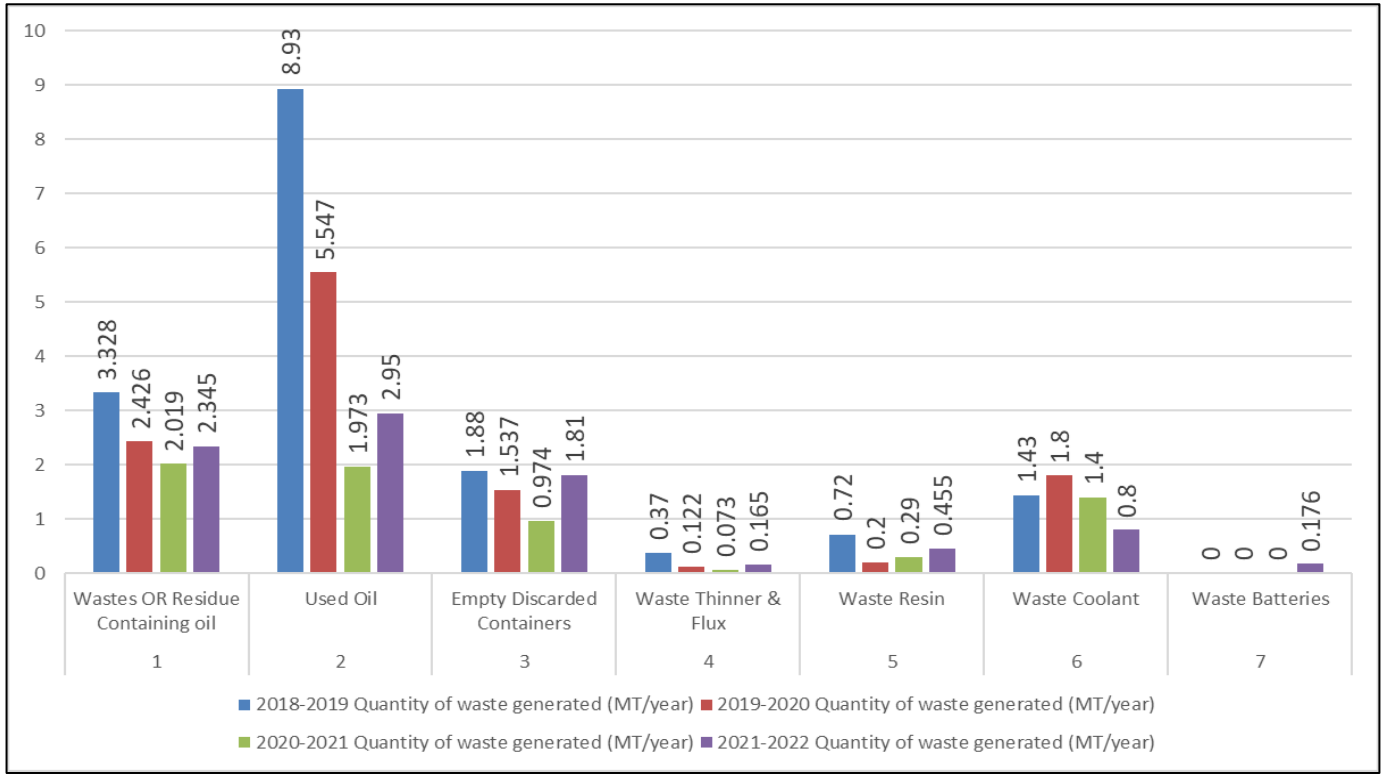
03
PLSIND have Annual Environment plan & Energy plan for reduction and control on environment impact

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



WASTE UTILIZATION AND MANAGEMENT

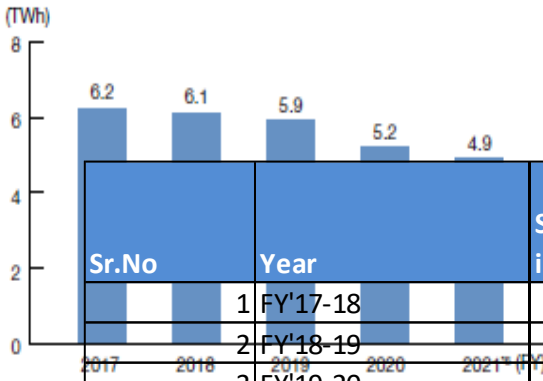
Sr.No	Year / Type of waste generated	2018-2019 Quantity of waste generated (MT/year)	2019-2020 Quantity of waste generated (MT/year)	2020-2021 Quantity of waste generated (MT/year)	2021-2022 Quantity of waste generated (MT/year)
1	Wastes OR Residue Containing oil	3.328	2.426	2.019	2.345
2	Used Oil	8.93	5.547	1.973	2.95
3	Empty Discarded Containers	1.88	1.537	0.974	1.81
4	Waste Thinner & Flux	0.37	0.122	0.073	0.165
5	Waste Resin	0.72	0.2	0.29	0.455
6	Waste Coolant	1.43	1.8	1.4	0.8
7	Waste Batteries	0	0	0	0.176
Total Water Consumption		31538 KL	28393 KL	24271 KL	28149 KL
STP Treated Waste Water Used for Gardening		22774 KL	20385 KL	14272 KL	18664 KL



The waste generation has increased by approx 51% as the production has increased by 28.61 %.

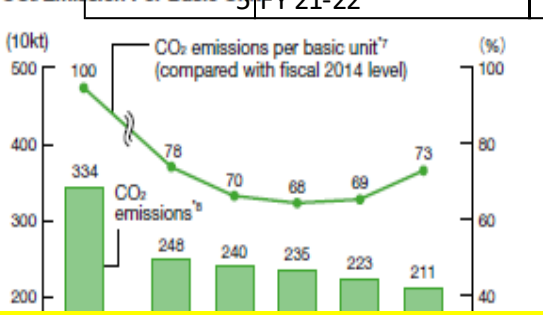
GHG INVENTARISATION – Monthly Energy results are being submitted on Panasonic Global portal

Energy Consumption in Production Activities

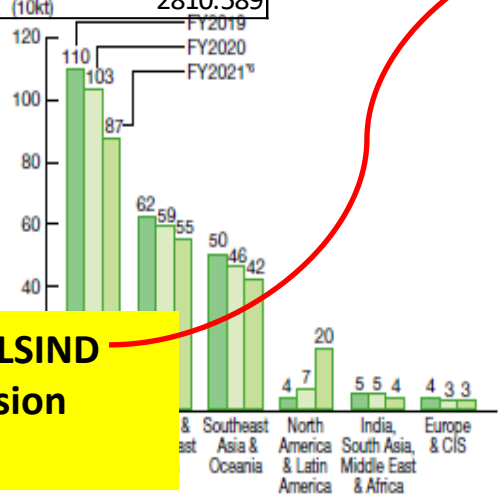


Sr.No	Year	Saved Co2 Emission in Ton
1	FY'17-18	494.628329
2	FY'18-19	1625.598232
3	FY'19-20	2351.43352
4	FY'20-21	2789.0858
5	FY'21-22	2810.589

CO_2 Emission in Production Activities and CO_2 Emission Per Basic Unit

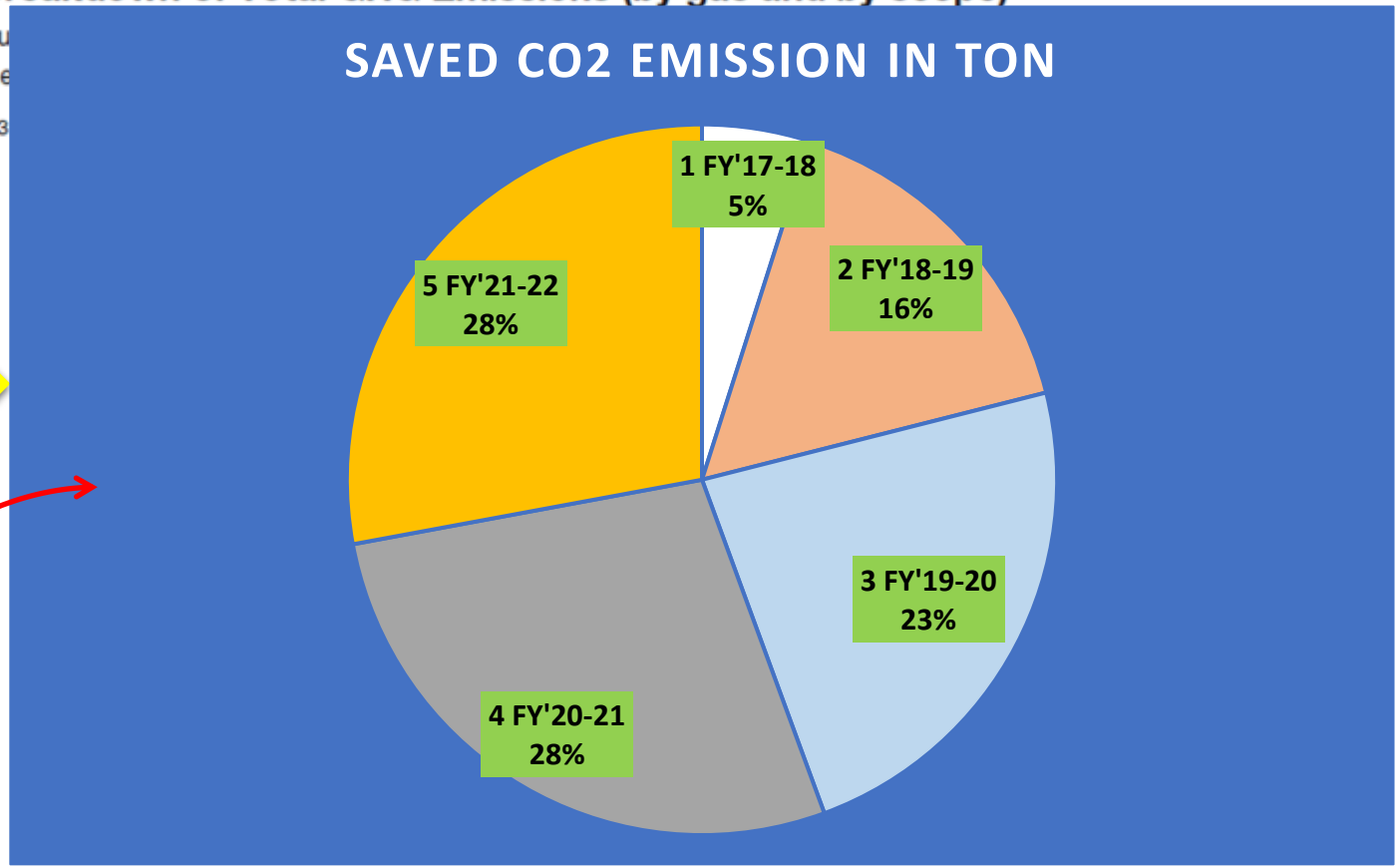


CO_2 Emission in Production Activities (by region)



Last year four year % wise PLSIND Contribution for CO_2 emission reduction

Breakdown of Total GHG Emissions (by gas and by scope)



*14 The GHG emissions from energy use by Panasonic Corporation of North America included.

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 (5 businesses in FY2021)

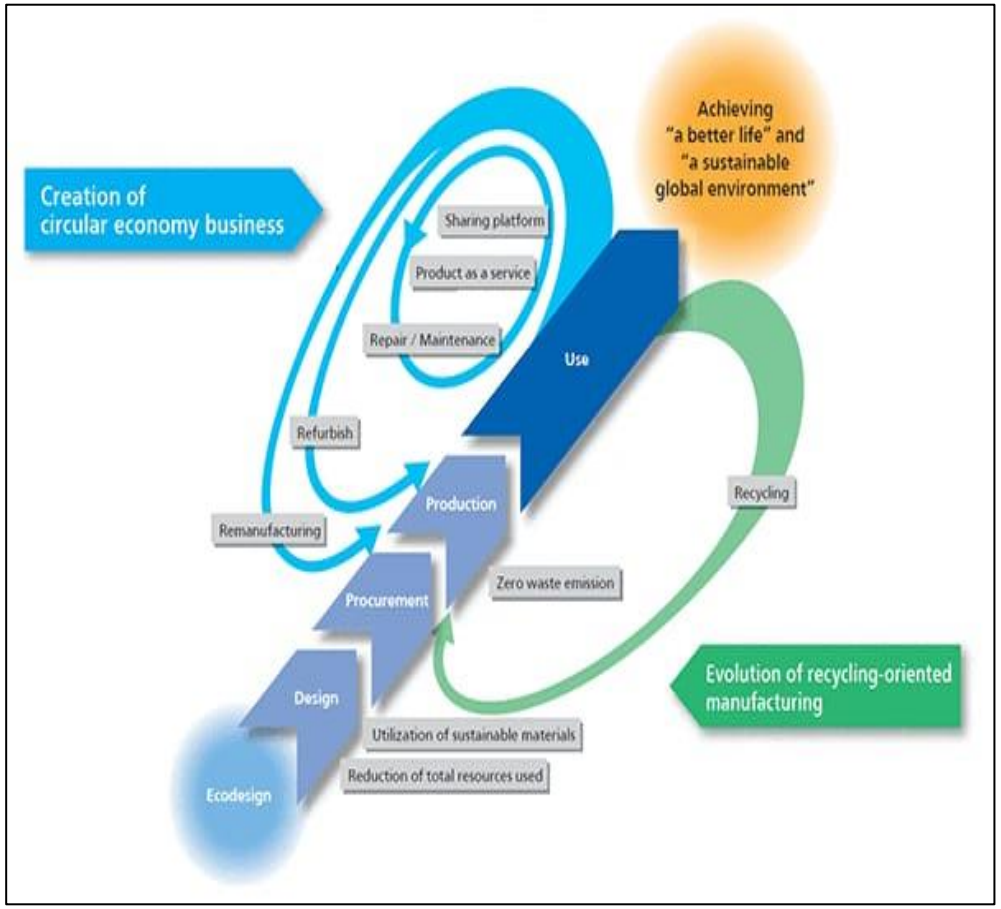
			FY2021 results	FY2025 targets
CO_2/ Energy	OWN IMPACT CO_2 reductions in our own VC*1		—	16.34 Mt*2
	Scopes 1&2*1	Zero-CO_2 factories	7 factories	37 factories
		CO_2 reductions	—	0.26 Mt*2
	Scope 3*1	CO_2 reductions in use of our products by customers	—	16.08 Mt*2
	CONTRIBUTION IMPACT "Avoided Emissions" for society		23.47 Mt	38.3 Mt
Resources/ CE*3	Recycling ratio of factory waste		98.7%	99% or more
	Use of recycled resin (3-year sum*4)		43.3 Kt	90 Kt
	CE-based business models/products		5 businesses	13 businesses

*1 Classification made based on GHG (Green House Gas) Protocol, the international calculation standard

*2 Size of CO_2 reduction targets shown above are the differences from those made in FY2021.

*3 CE: Circular Economy

*4 "3-year sum": FY2020-FY2022 cumulative results / FY2023-FY2025 cumulative targets



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

GREEN PLAN 2021 STATUS

GHGs from the Whole Supply Chain (by Scope)

Category		Emissions(10 kt)	
		FY2020	FY2021
Scope 1*14		39	33
Scope 2*15		193	187
Scope 3*16	1. Purchased goods and services	1,805	1,656
	2. Capital goods	72	64
	3. Fuel- and energy-related activities	24	23
	4. Upstream transportation and distribution	86.6	81.5
	5. Waste generated in operations	1.6	1.5
	6. Business travel	2.2*17	1.2*17
	7. Employee commuting	3.0*17	2.0*17
	8. Upstream leased assets	1.5*17	2.4*17
	9. Downstream transportation and distribution	2.0*17	1.7*17
	10. Processing of sold products	–	–
	11. Use of sold products	8,313	8,593*18
	12. End-of-life treatment of sold products	118	105
	13. Downstream leased assets	–	–
	14. Franchises	–	–
	15. Investments	–	–

Environmental Action Plan "Green Plan 2021"

Category		2021 targets		FY2021
Material Issues	Energy	Increase the ratio of total energy created to total energy used	Total energy created*1 : total energy used*2 = 1 : 8.5	1: 14.5
		Products & Services: Increase amount of energy created	Amount of energy created*1: 30 TWh or more	16 TWh
		Products & Services: Increase the size of contribution toward energy savings through products and services	Size of contribution toward energy savings through products and services*3: Direct*4: 25 TWh or more; Indirect*5: 2 TWh or more	Direct: 30 TWh Indirect: 1.8 TWh
		Products & Services: Expand energy creation businesses		—
		Products & Services: Expand energy efficient products and services business, focusing on products and services utilizing IoT/AI		—
		Factories: Promote zero-CO_2 model factories - Establish model factory using advanced hydrogen technology - Establish at least one zero-CO_2 model factory in each region*6		—
		Factories: Increase the use of renewable energy through the generation of renewable energy on-site and procurement of renewable energy	Renewable energy generated on our sites*7: 40 GWh or more	35 GWh
		Factories: Promote energy efficiency in production - Reduce energy loss through IoT - Improve productivity through manufacturing innovation		—
	Resources	Create circular economy business models	Analysis of the development of circular economy options for existing businesses: 100%	—
		Reduce resource consumption and increase the use of sustainable materials	Recycled resin usage*8: 42 kt or more (2019 to 2021 total)	28 kt (2019 to 2020 total)
		Achieve Zero Waste Emissions from factories globally	Factory waste recycling rate*9: 99 % or more	98.7%
Other environmental sustainability goals	Water	Reduce water consumption in production activities		
	Chemical substances	Minimize the environmental impact of chemical substances usage in production activities and products		
	Biodiversity	Promote procurement of sustainable materials		
	Local communities	Promote environmental initiatives to contribute to local communities and educate the next generation		
	Compliance	Ensure compliance with environmental laws and regulations		

GREEN SUPPLY CHAIN MANAGEMENT SYSTEM

Green Supply Chain Management action plan with cu

Sr.No	Activity	Plan/Status	2017	2018	2019	2022	2023	2024
1	Thought for green building supply chain mechanism implementation with few small implementation	Plan						
		us						
2		us						
3	green supply chain mechanism check sheet	Status						
4	Proper policy drafting	Plan						
		Status						
5	Policy sharing to All vendors	Plan						
		Status						
6		us						
7	25 % implementation for inspection at vendor's premises	Plan						
		Status						
8	50 % implementation for inspection at ve							
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.

70% 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.

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.

anasonic

GREEN SUPPLY CHAIN POLICY

As an integral part of our business philosophy and core values, we at Panasonic Life Solutions echanism.

rate green supply

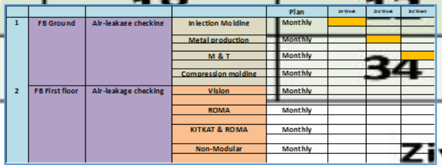
- Procurement of energy efficient and eco friendly products.
- Continual improvement in manufacturing process, to reduce energy consumption.
- Comply with all relevant statutory and other requirements applicable to green supply chain mechanism.
- Set and review objectives and targets for continual improvements related to green supply chain.
- Development of supplier, transporters, dealers and other associate's competency toward resource conservation and energy conservation.
- Promoting awareness through training on energy conservation and green supply

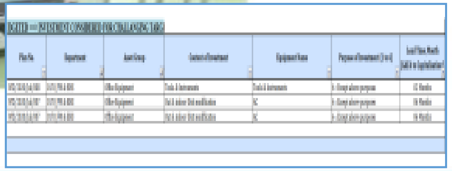
For Panasonic Life Solutions India Pvt. Ltd.

Mr. Dinesh Agarwal
Joint Managing Director & Occupier

Date:

MONITORING, TEAM-WORK AND EMPLOYEE ENAGAMENT





Monitoring Teamwork & Employee engagement

- Online energy management system & Solar Generation system is available.
- Daily energy waste observation is being monitored and recorded
- Energy review meeting is chaired by MD for Global Level & Factory Manager at plant Level
- Separate investment budget of 20.95 MINR is allotted for energy saving projects for FY-22.
- Energy saving tips & Energy awareness programme is organized on regular basis FY'21 524 Manhour Achieved.
- *Star Energy Saving Performer & Best Energy Saving Department award scheme for continual Energy improvement*

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

INNOVATIVE KAIZEN PROJECT BY ASSOCIATES

Activity Theme: Reduce Air Leakage by installing Pnumatic Valve

Before improvement

Usage of Air Gun for Cloth Cleaning Activity

- Machine operators misuse of compressed air for cloth cleaning
- Chances of accident due to compressed air
- Waste of electrical energy

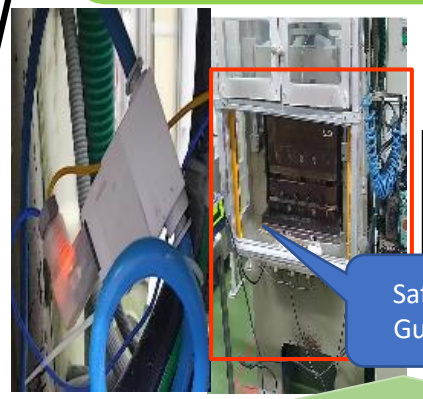
Operator using compressed air for cloth cleaning

A	B	C	D		
Number of Air gun for Each Moulding Machines	Energy Utilization of energy(KWH)/ Each 6 mm hole Air- Gun	Running hours/Day for cloth cleaning	KWH/Day (= A*B*C)	KWH/Year = (D*25 days/month*12 Month)(A*B*C*D)	Energy Cost per year @4.72 /- INR per year
18	12	5	1080	324000	15,29,280.00

After improvement

> We observed that operators using compressed air for cloth cleaning, and that is waste of Air.
> Discussed how to prevent use of compressed air.
> After analysis decide to installed pneumatic valve which can operate during only mold cleaning ,hence air can be use only for mold

Operator will not able to misuse of compressed air for Cloth Clening or other activities



Safety Guard

Number of Air gun for Each Moulding Machines	Energy Utilization of energy(KWH)/ Each 6 mm hole Air- Gun	Running hours/Day for person cloth cleaning	KWH/Day (= A*B*C)	KWH/Year = (D*25 days/month*12 Month)(A*B*C*D)	Energy Cost per year @4.72 /- INR per year
18	12	0	0	0	0

- Overall Yearly energy cost saving= 15,29,280/- INR

Installed pneumatic valve which is interlocked with front safety guard to control Air Supply and air gun can use only for machine cleaning

ANCHOR

Panasonic

OTHER INNOVATIVE KAIZEN PROJECT BY ASSOCIATES

Improvement in productivity by 200% in dehumidifiers of Injection Moulding machines	*1,65,672 KWH/Year Saving*
Injection molding machine grinder interlocking with Main machine	*4776.0 KWH/year Saving*
injection molding machine interlocking with conveyer	*11292 KWH/year Saving*
Reducing operating frequency of STP blower motor	*30223 KWH/year Saving*
Reduce Air Leakage by installing Pneumatic Valve controlling at Compression moulding	*3,24,000/- KWH/Year Saving*
Energy Conservation In Multiforming Machines by process modification	*12960 KWH/ Year Saving*
STP motor replacement to energy efficient motor	*739 KWH/Year Saving*

TOTAL ACTIVITY = 7 Nos

TOTAL SAVING (IN KWH) = 5,49,662 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.

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

Milestones and Future Plan.

TOGETHER WE CAN MAKE NET ZERO BY 2030 POSSIBLE FOR Factories

ZERO CARBON FOOTPRINT

Achieve 100%
Zero CO_2 Footprint

2030

Energy Conservation – 1%
REC Certificate for remaining Energy Consumption.
Water Reduction – 1% (Water Positive Cont.)

Achieve 35% ~ 50%

2028

Energy Conservation – 1%
Renewable Energy – WH & Idle Land continue
REC Certificate procurement start
Water Reduction – 1% (Water Positive Cont.)

Achieve 25% ~ 30%

2026

Energy Conservation – 1%
Renewable Energy – Warehouse & Idle Start
Water Reduction – 1% (Water Positive Cont.)

Achieve 15%

2024

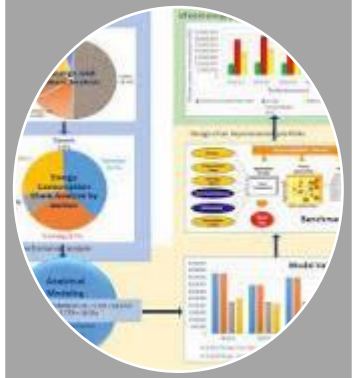
Energy Conservation – 2%
Renewable Energy – All Factories complete roof
Water Positive by Rain Water Harvesting.

Achieve 10%

2022

Energy Conservation – 3%
Renewable Energy – 2 Factory Add.
Water Reduction – 3%

LEARNING FROM CII ENERGY AWARD 2021 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

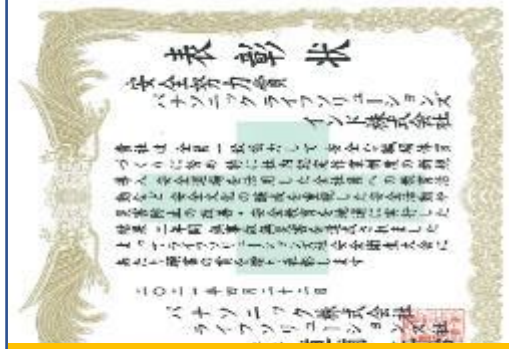
INTERNL GLOBAL PANASONIC GROUP AWARDS AND RECOGNITION


CERTIFICATE OF COMMENDATION

Director in Charge Award

Panasonic Corporation Director in charge Award in FY'20

For Energy conservation


表彰状

Safety Effort Award in FY'21

For Safety improvement


Certificate of Commendation

Good Idea Award

Award theme

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

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

For 3R Category


表彰状

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

EXTERNAL AWARDS AND RECOGNITIONS

⑧ National Award – Energy.
⑨ National Award – Energy.
⑩ National Award – Environment
⑪ **International Award – Energy.**

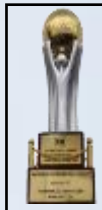
FY21

8

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

9

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

10

National Award for Environment Best Practice-2021 by CII
Environmental Management

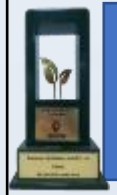
11

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

FY20

4

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

5

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

6

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

7

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

④ National Award – Energy.
⑤ National Award - Waste Mgt.
⑥ National Award – Water Mgt.
⑦ **International Award – Env.**

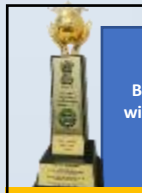
FY19

1

GHKC (Green House-Keeping Contest)-2019 Award winner by Baroda Productivity Council.
For Safety, Quality, Energy ,Environment and House-keeping

2

National Safe tech award 2019
For Safety improvement

3

BEE NECA-2019 Award winner Under Consumer Goods Category.
For Energy Conservation

① National Award – Energy, Env., Safety, Quality, HK.
② National Award – Safety.
③ **Government Award – Energy**

Thank You

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Mobille no:-8980717960