
Presentation For Environmental Best Practice Award

Panasonic

Panasonic Life Solutions India Pvt. Ltd.

PEWIN

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Welcome All Judges for Environmental Best Practice Award

PANASONIC LIFE SOLUTIONS INDIA PVT. LTD.



We have **MANUFACTURING** in 4 Areas & 6 Factories on PAN India

Wide Ranges of Products



SRI CITY FACTORY

- Wiring Device
- Switchgear



HARIDWAR FACTORY

- Wiring Device
- Switchgear



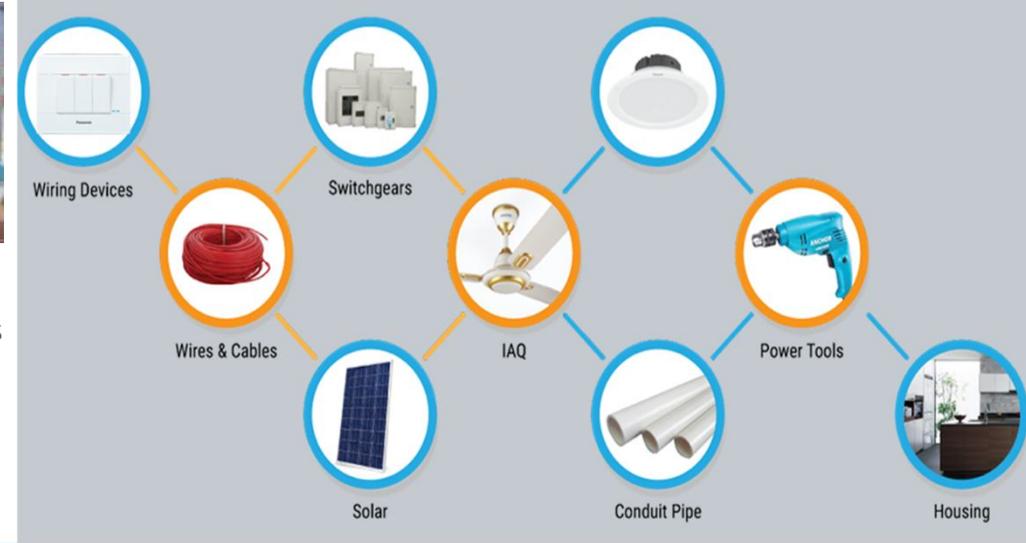
DAMAN FACTORY

- Wiring Device
- Lighting
- Wires & Cables & Tapes



KUTCH FACTORY

- Wires & Cables & Tapes



• NABL accredited laboratory

• ISO 50001 certified for energy Management • ISO 14001: Certified for Environment Management

• ISO 45001 certified for safety management • RoHS Compliant products, QMS, EMS and OHSAS Certified Units



Panasonic Group

About Panasonic Group | News | Investor Relations | Brand | Technology | Design | Sustainability
 Panasonic GREEN IMPACT | Global Environmental Issues | Panasonic's Resolve | Our Goals

Our Initiatives Circular Economy

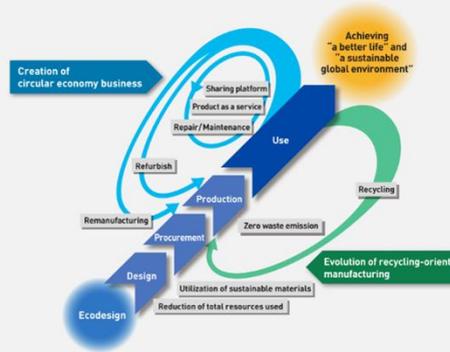


changes in customer lifestyles, there is now a growing global trend for customers to use only specific rather than using or owning the whole product. Particularly in Europe, building a circular economy for growth has become a major economic strategy, in a move away from continuous resource consumption. At the same time, the Panasonic Group is introducing the idea of circular economy and moving forward in efforts to conserve resources and maximization of customer value.

Circular Economy Business initiative

Promotion of a Circular Economy

Striving for the Evolution of Recycling-Oriented Manufacturing and the Creation of Circular-Economy Business



Recognizing that more efficient utilization of resources contributes to decarbonization, and is necessary for reducing the consumption of Earth's limited natural resources, Panasonic is striving towards a circular economy in order to contribute to the realization of a sustainable society.

Key Points : As a Panasonic Group we work on below aspect i.e.

1. Reduce.
2. Reuse.
3. Recycle.
4. Refurbish.
5. Repair.
6. Remanufacturing.
7. Utilization of sustainable materials.
8. Repurpose etc.

Step 1 : Our top management promotion for Circular economy act as **trigger**, for various initiatives of Reduce, Reuse & Recycle.

- Idea Generation
- Evaluation & Approval from Mgt.
- Implementation
- Analysis & Impact
- Horizontal Deployment.

Uniqueness

- Resource Saving
- Concept :** Reduce, Reuse, Recycle
- Economical
- Carbon footprint reduction

Time Period

- April-23 • Idea Generation
- MAY-23 • Implementation
- Jun-23 • Completion



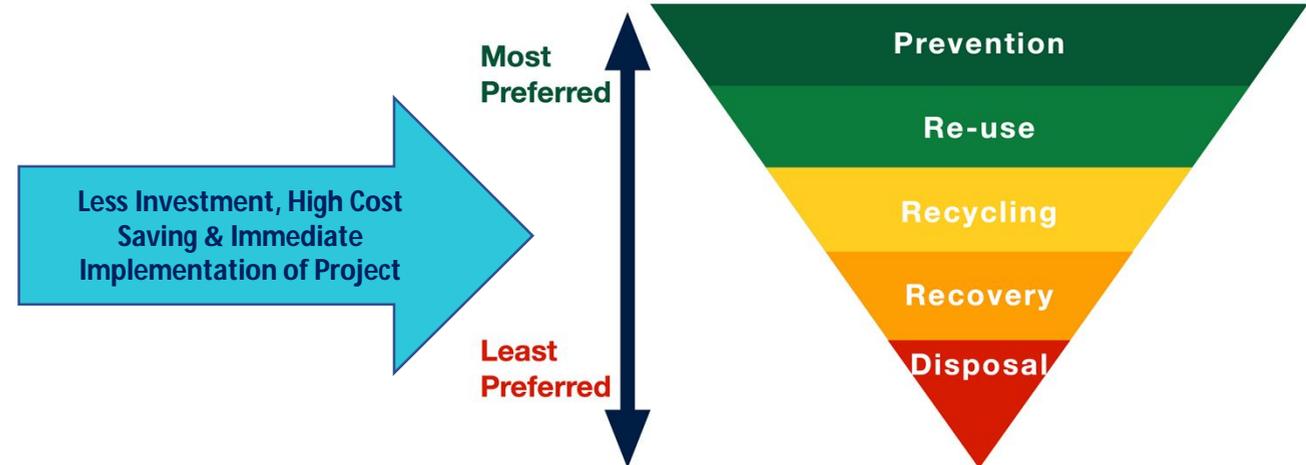
Tangible Benefit:-		Reduce/Reuse/Recycle	%age	Savings MINR	Remarks
Project-1	Plastic Waste Recycle	18.000 MT	100.00%	2.100	Recycle Plastic Waste to RM for reuse
Project-2	Stanyl Grinding Reuse	4.500 MT	100.00%	1.048	Recycle Stanyl Waste to RM for reuse
Project-3	Silver Brazing Foil	0.400 MT	10.00%	4.274	Reduction of Silver Brazing Foil RM
Project-4	Copper & PVC Compound Reduce	0.036 MT	5.00%	1.290	Reduction Copper Waste & PVC Waste
Project-5	PVC Waste Recycling	44.000 MT	47.00%	2.044	Reuse of Raw material
Total Cost Savings is				10.756	



Tangible Savings & Payback Period

PEWIN	Investment (Lakhs)	Payback Years (Nos.)	Cost Buster (MINR)
Project-1	0	0	2.100
Project-2	0	0	1.048
Project-3	0	0	4.274
Project-4	0	0	1.290
Project-5	1.03	0.5	2.044

Successful Implementation of Control Mechanism



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In-Tangible Benefit:-



Environment Commitment
(i) Resource Conservation
(ii) Support to Mother Earth

Process Improvement
(i) Quality Improvement
(ii) RM Scrap Reduction
(ii) Raw Material Reduction

High Team Moral
(i) Leading Way of Direction
(ii) Team Building
(iii) Unique Data Gain

Skill Expand
(i) Data Capturing
(ii) Analysis & Interpretation
(iii) Decision Making
(iv) Cause – Effect

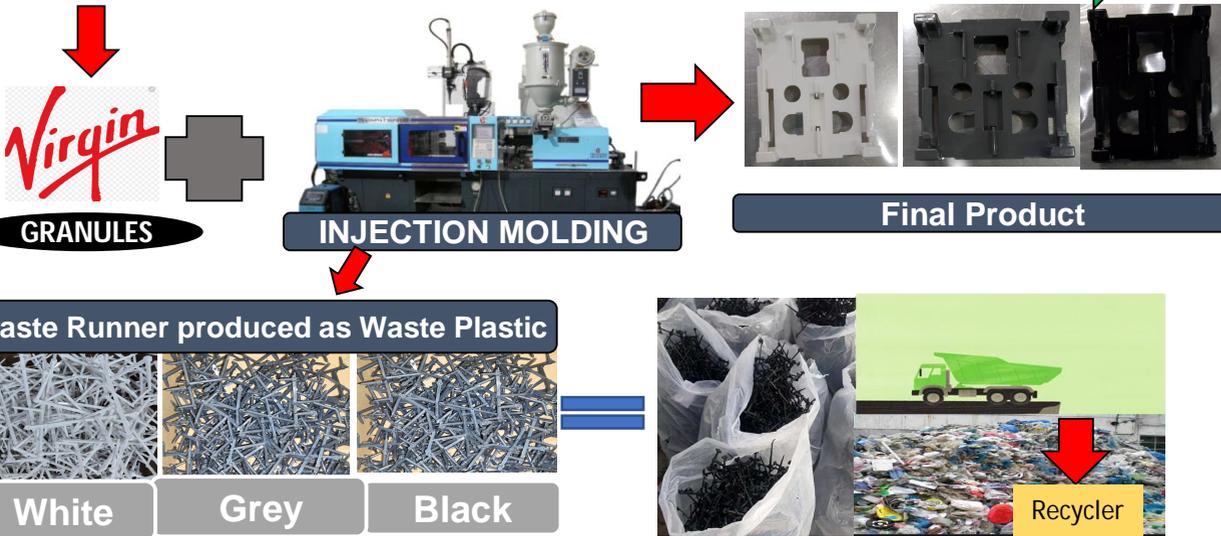
Communication
(i) Team meeting increased
(ii) Positive Communication
(iii) Way Forwarding



PROJECT -1: Reduction of Fresh (Virgin) Material Through Recycling of Plastic Waste in Production Process

Before

- 1) R/U Malti Shutter Retainer White - Material - PC 6557 DA01 white
- 2) R/U Malti Shutter Retainer Grey - Material - PC 6557 DA05 Grey
- 3) R/U Malti Shutter Retainer Black - Material - PC 6557 DA07 Black



After



The biggest challenge was the testing of these products as currently lab is overloaded with many new products which were under evaluation. Second challenge was to convince PPD for implementation of this theme. To resolve this issue, convinced new product development team & prioritized all products by adjusting these products testing between new one.

Before Waste Quantity :- 18 Ton
Before Cost :- 3862478/- INR

After Waste Quantity :- 0
After Cost :- 1687860/- INR

Saving- 2174618/- INR , Reduction Amount- 18 Ton ,Reduction Rate-97.3 %



Theme Recycling of PVC Material as a Master Batch in Multicore cable process at Kutch

Before

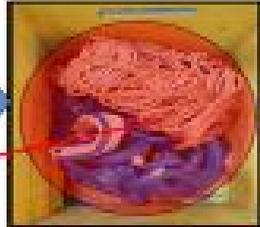
PVC lumps Scrap Generation at Insulation Machine

1. Color c/s scrap
2. Grade change

Reason



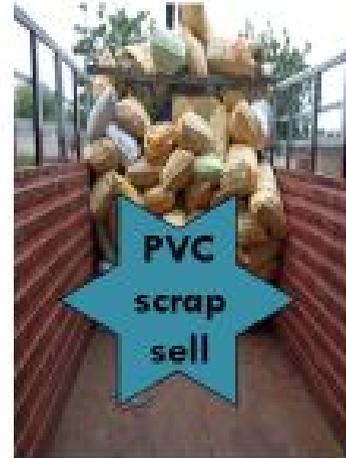
PVC lumps generated at Extrusion Machine after colour change



Color PVC scrap after colour change



Color PVC scrap after size change



PVC scrap sell

PVC lumps Annual scrap - 63,443 Kg.



Go to store Area



Operator lumps PVC Shredded in scrap bin



Operator lumps PVC in 25kg bag

After



We PVC lumps, Support colour wire



Store previous PVC lumps store colour wire



Lumps PVC send to BBO or plastic LTD for recycling



We Take trail in lower wire as MD and sample give to QC



We Received PVC after recycling



PVC lumps rejected by BBO



BBO Approval Date



We Take trail in MD as MD and sample give to QC



Quality parameter all pass BBO Approval Date

Before Quantity :- 63,443 KG= 63.443 Ton
Before Cost :- 50,97,010.62 /- INR

After scrap Quantity :- 44,255 Kg= 44.255 Ton
After Cost :- 30,52,429.62/- INR

Saving- 20,44,581 /- INR , Reduction Amount- 19.218 Ton ,Reduction Rate-47 %

Theme Reduction of Copper & PVC Consumption by Introducing New Item of Multicore cable Non-Standard Length in Market



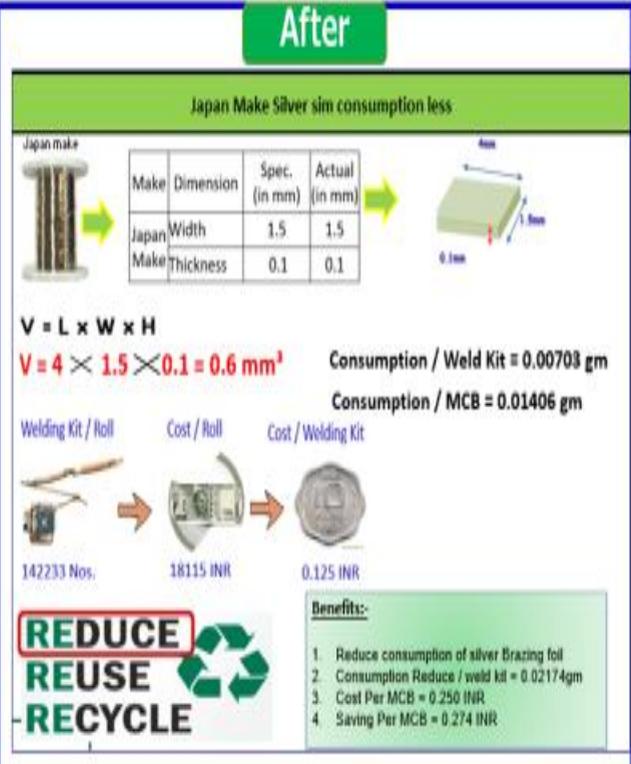
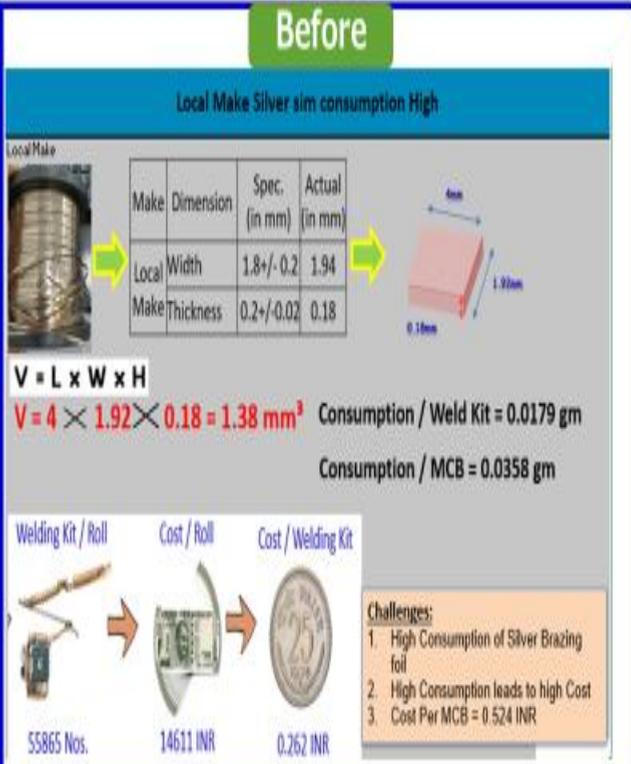
Before Quantity :- 58.597 Ton
Before Cost :- 1,98,81,725 /- INR

After scrap Quantity :- 55.688 Ton.
After Cost :- 1,88,03,078/- INR

Saving- 10,78,647 /- INR , Reduction Amount- 2.9 Ton ,Reduction Rate-5 %

Copper – 1.27 Ton , PVC – 1.63 Ton.

Theme Reduce Consumption of Silver Brazing foil by reducing thickness & width of Silver Brazing foil of MCB part

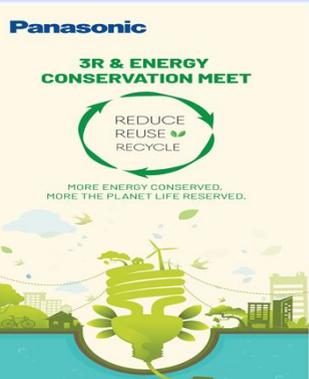


Before Quantity :- 0.6 Ton
Before Cost :- 8174400 /- INR

After scrap Quantity :- 0.2
After Cost :- 3900000

Saving- 4274400/- INR , Reduction Amount- 0.4 Ton ,Reduction Rate-68 %

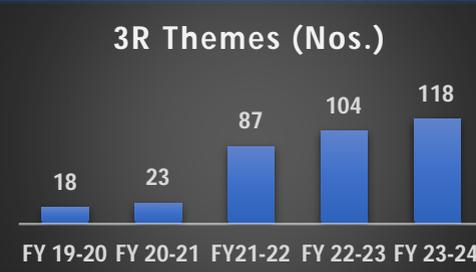
3R Activities & its Achievement Sharing Modes



- 1st Step** • All 3R themes of One Unit compete internally for Theme selection & facilitate award accordingly.
- 2nd Step** • All unit Top 3 theme selection for Inter Unit Competition.
- 3rd Step** • Interunit Competition between all Panasonic Units of Daman.
- 4th Step** • All shortlisted Themes final compete Japan at Global level



All Themes Shared at Global level for Replication of each Feasible themes in Group Companies of Panasonic.



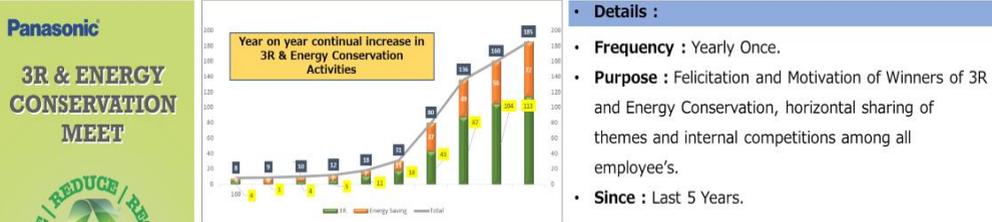
Knowledge Sharing Platforms



- #### ENVIRONMENT TRAINING TOPICS
1. Environment Induction Dojo New Employee & Refreshing Training
 2. General Awareness For Environment
 3. Waste Management (Hazardous, Electrical, Plastic, Solid, BMW etc.)
 4. Environment Legal Compliance Training
 5. Chemical Handling Awareness
 6. Material Safety Data Sheet Awareness
 7. EMS ISO 14001 Awareness Training
 8. ISO Document & Check sheet
 9. Environmental Aspect Impact Awareness
 10. ETP / STP Operations & Monitoring
 11. Environmental Incident Investigation and reporting



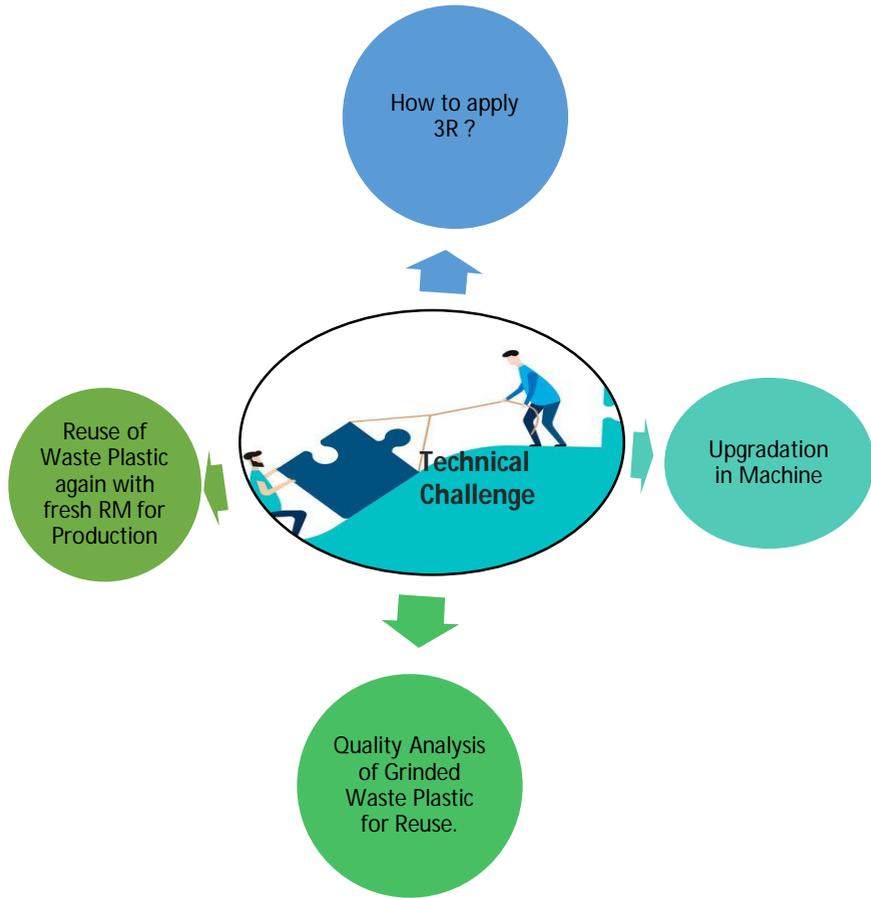
Knowledge Sharing Platforms



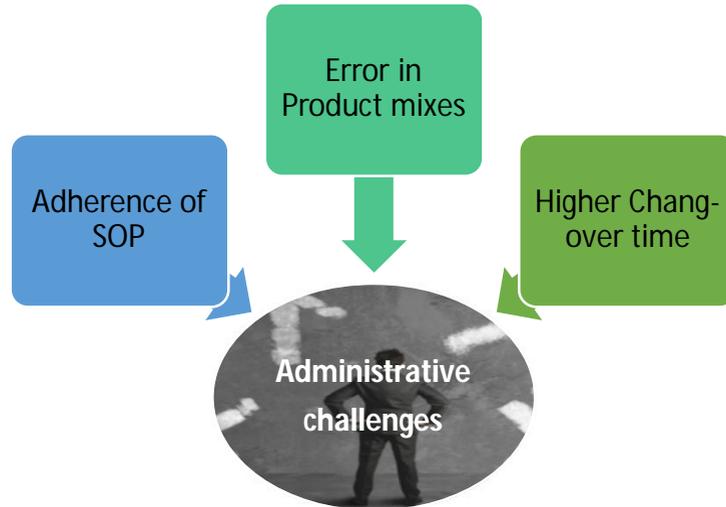
- **Details :**
- **Frequency :** Yearly Once.
- **Purpose :** Felicitation and Motivation of Winners of 3R and Energy Conservation, horizontal sharing of themes and internal competitions among all employee's.
- **Since :** Last 5 Years.



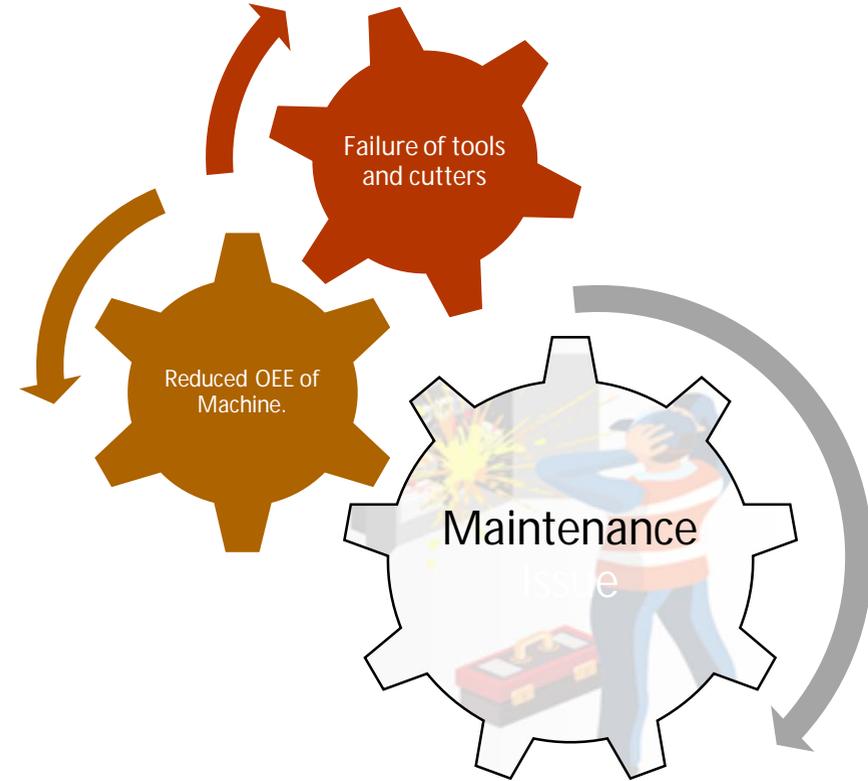
ENVIRONMENT BULLETIN CIRCULATION



Overcame with help of CFT expert members



Overcame by Expert trainings.



Overcame by Regular PM and designing of adequate tools

Achieving National Benchmarks/Standards

PANASONIC GLOBAL BENCHMARK

Color Code

Area For Improvement

Area Already Improved

Reduce greenhouse gas emission to substantially zero by 2030

Top Management had lagged in Environmental issues, changed the direction towards Sustainability

- ❑ Zero CO2 Emissions Factories
- ❑ Increase Renewable Energy Resources
- ❑ Reduce Water Consumption
- ❑ Water Positive Units
- ❑ Increase Rainwater Utilization
- ❑ Zero Landfilling Waste
- ❑ Procurement of Sustainable Materials
- ❑ Chemicals Management System.

Achieving Sustainability Management

E Environment

Contribute to solving global environment issues

- By 2030: Achieve net zero CO₂ emissions at all operating companies
- By 2050: Contribute to reductions beyond CO₂ emissions from Panasonic's own value chain

Panasonic GREEN IMPACT announced at CES

S Social

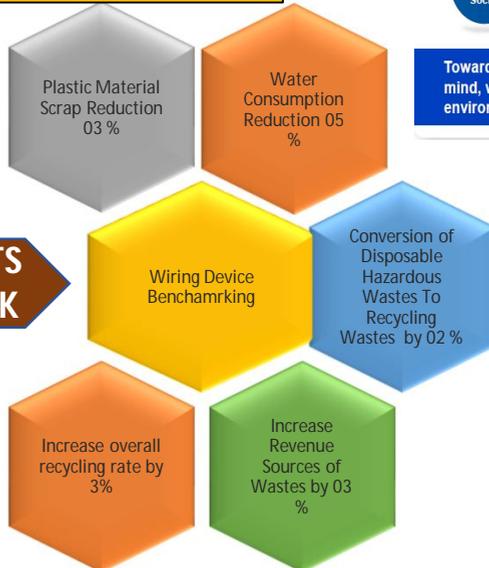
Support health & well-being of people both in mind & body

- Well-being in lifestyle
- Well-being in workplace

To achieve these aims, we must support the well-being of our employees

Toward achieving an ideal society with affluence both in matter and mind, we will contribute to the progress and development of global environment & quality of life

PEWIN UNITS BENCHMARK



PEWIN Division Energy Standards

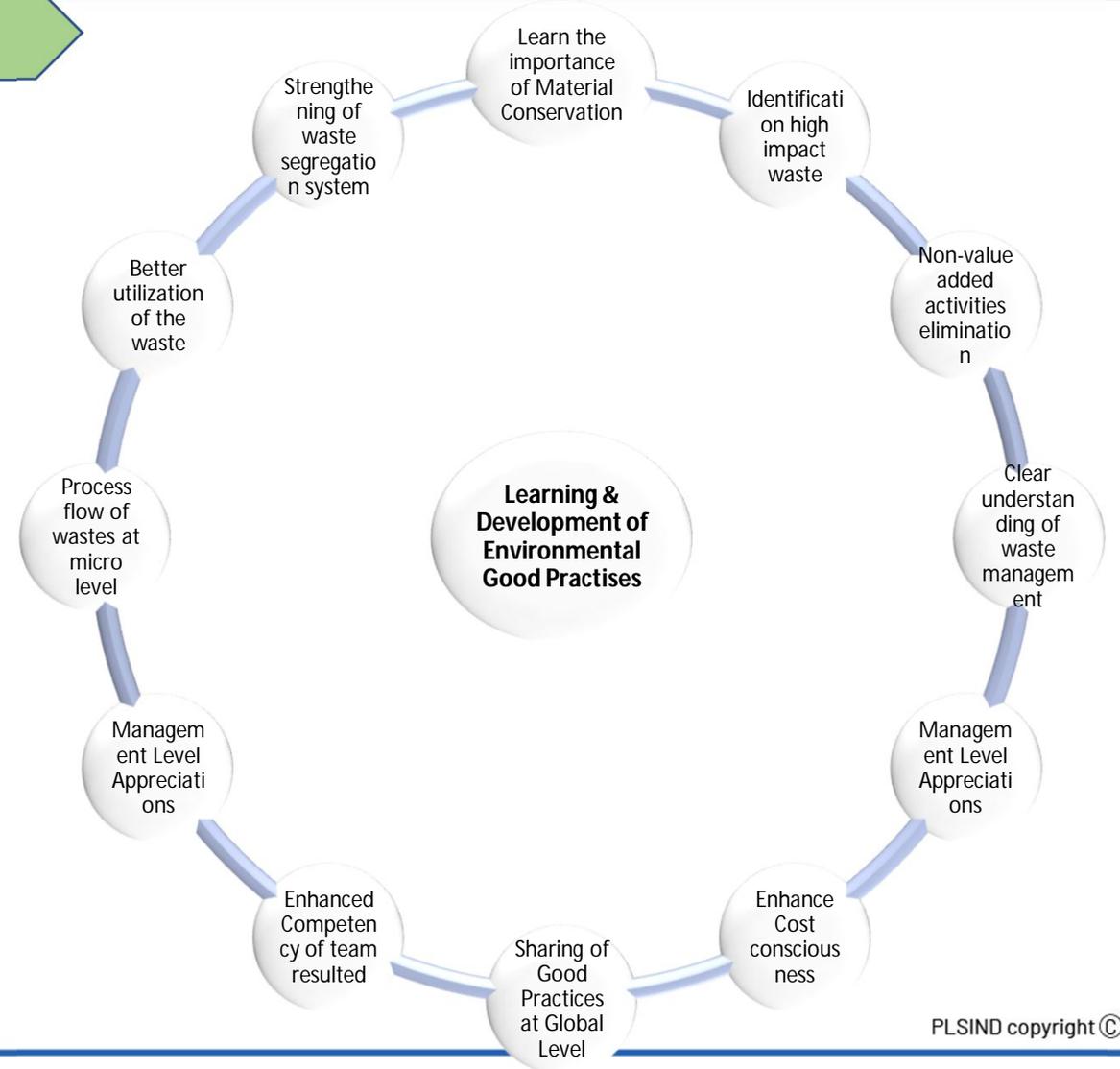
- ❖ 10% Decrease in Energy Utilization Through Renewable Resources
- ❖ Minimum 3 % Decrease in Energy Consumption in Machines
- ❖ 100% Procurement of Energy Efficient Machines

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



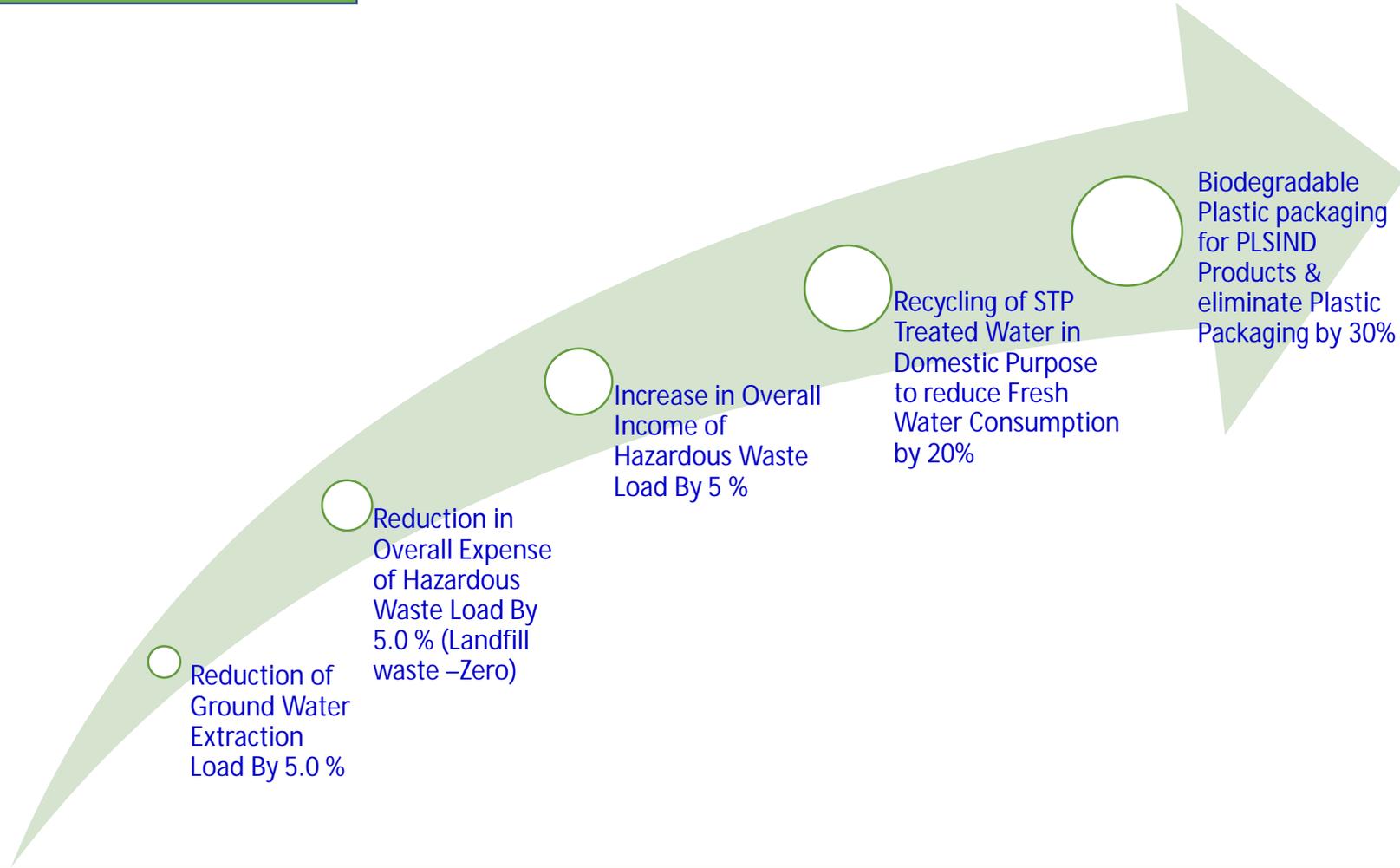
Learning & Development of Environmental Good Practises

<p>Team Work</p> <p>Improved</p>	<p>Problem solving</p> <p>Improved</p>	<p>Morale</p> <p>Improved</p>
<p>Soft Skills</p> <p>Improved</p>	<p>Communication</p> <p>Improved</p>	<p>Innovation</p> <p>Improved</p>





Future Plans-FY'24



THANK YOU

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