

Proud to be part of planet earth.

22nd National Award for Excellence in Energy Management

Marelli Motherson Automotive lighting India Pvt. Ltd., Pune



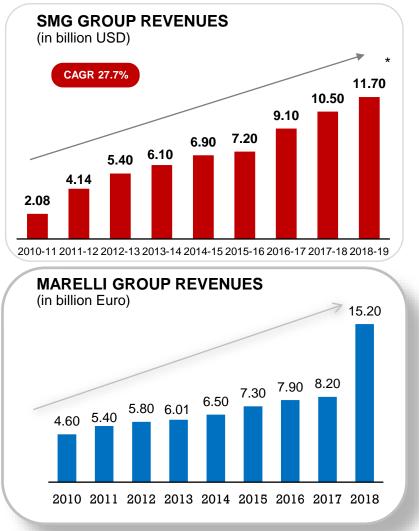
Presented By:-

Shridhar Deshmukh (Unit Head-Operations) Sahebrao Bhosale (Sr. Manager – Maint. & Energy)



Marelli Motherson – Company Introduction

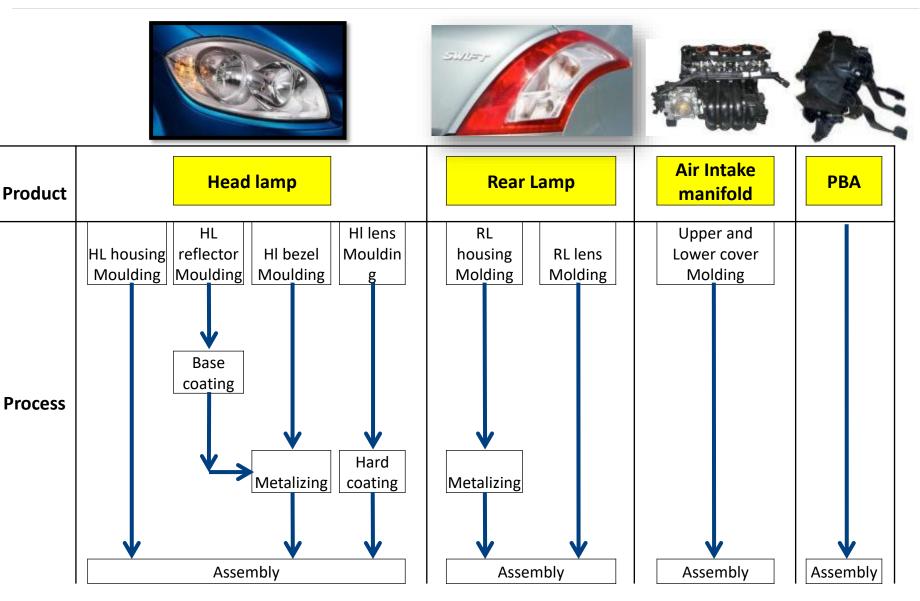
4 50 : 50 Joint Venture between Marelli (formerly known as Magneti Marelli) & Samvardhana Motherson (India) to cater the growing Indian Automotive Market.





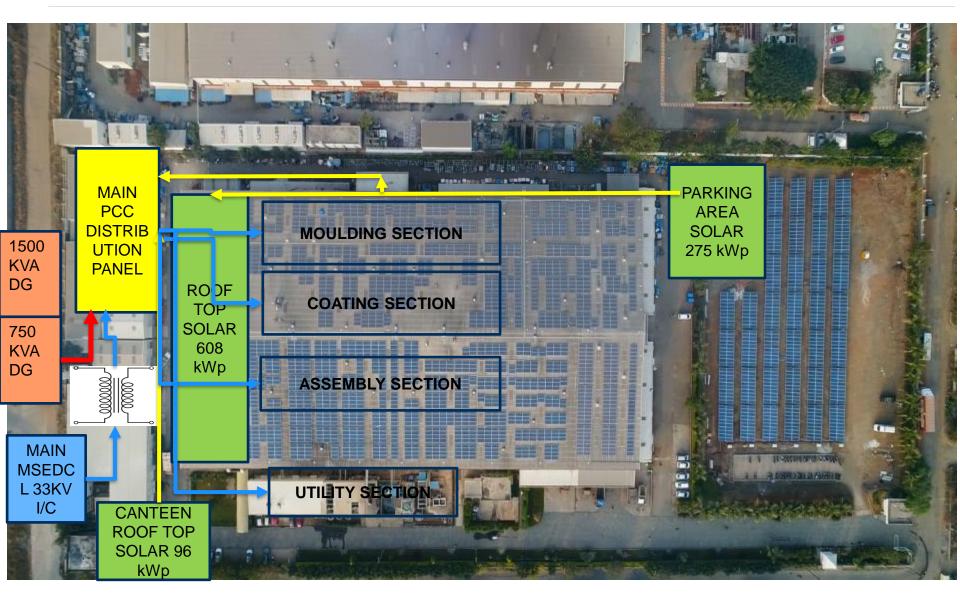
Product and Process





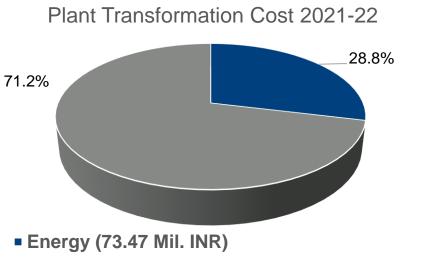
Company Introduction – Energy Sources





Energy Consumption Overview

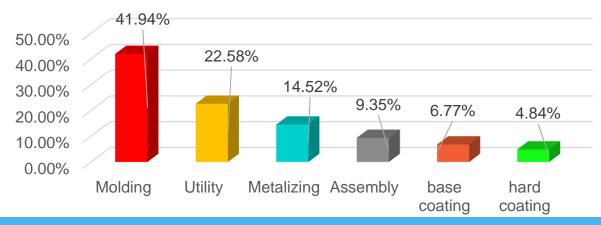




Labor+Mainte.+Scrap+Consumables+Packa ging (255.00)



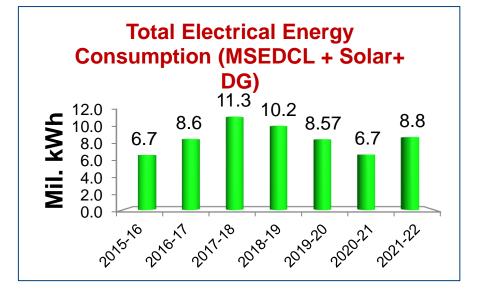




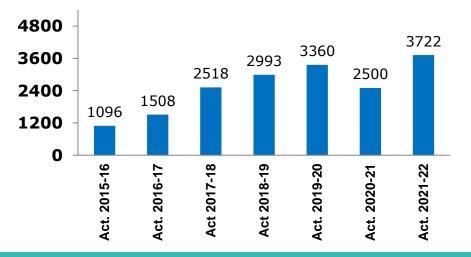
Electrical Sources stratification 21-22

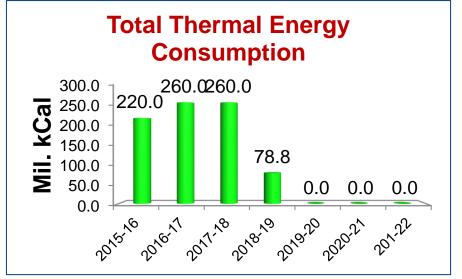
Energy Consumption Overview



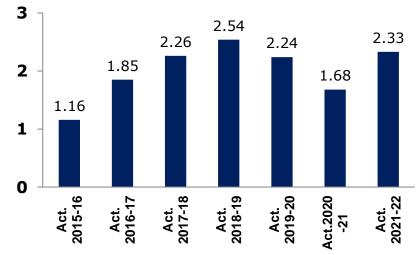


Sales Turnover in M. INR





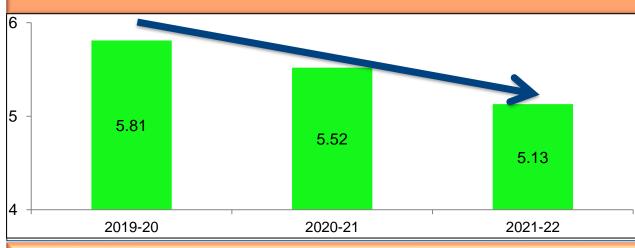
Volume in Million Nos.



Specific energy Consumption







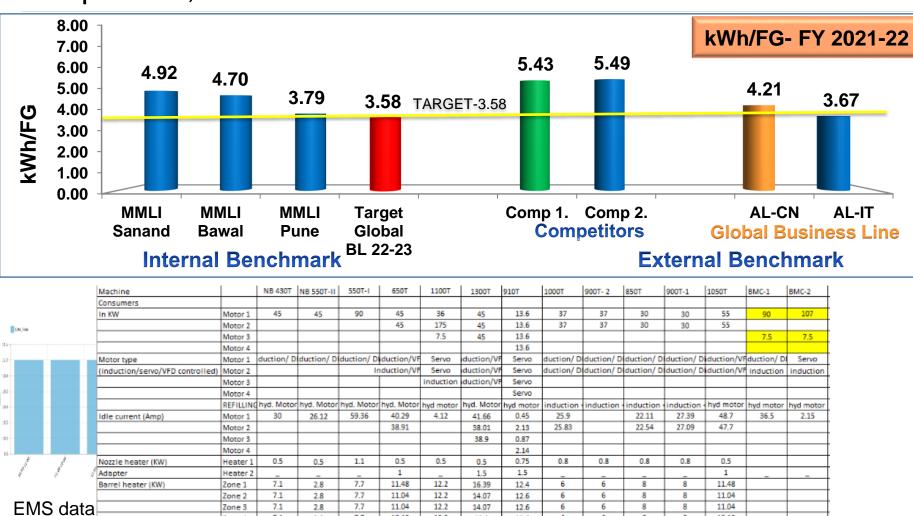
Specific Energy consumption Thermal, Kg Lpg /Lamp



12% Reduction in last three years Last one year 5.00% SEC reduction

100% LPG and washing process eliminated with new technology machine

Competitors, National and Global benchmark



| | | Louis a | 1 | 4.49 | 1.1 | 22.01 | 46.6 | 4-1.07 | 44.0 | · · | | | | 44.01 | | |
|----|------------------------|---------|------|------|------|-------|------|--------|------|------|------|------|------|-------|----|----|
| ta | | Zone 3 | 7.1 | 2.8 | 7.7 | 11.04 | 12.2 | 14.07 | 12.6 | 6 | 6 | 8 | 8 | 11.04 | | |
| iu | | Zone 4 | 7.1 | 2.8 | 7.7 | 10.13 | 12.2 | 12.9 | 12.6 | 6 | 6 | 8 | 8 | 10.13 | | |
| | | Zone 5 | | | 7.7 | | 12.2 | | | 6 | 6 | 8 | 8 | | | |
| | | Zone 6 | | | | | 12.2 | | | | | | | | | |
| | Barrrel length (mm) | | 2200 | 1700 | 2800 | 2800 | 3415 | 3050 | 2150 | 2900 | 2840 | 2910 | 2750 | 2900 | | |
| | Barrel diameter (mm) | | 150 | 105 | 180 | 226 | 260 | 245 | 215 | 245 | 220 | 220 | 220 | 230 | | |
| | Hourly consumption kWh | | 18 | 10.7 | 21 | 35 | 45 | 53 | 21 | 24 | 25 | 24 | 24 | 40 | 30 | 20 |

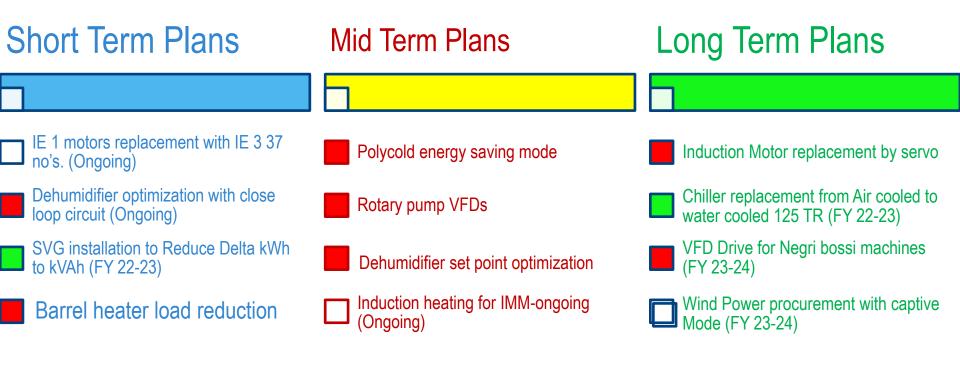
External Energy Audits



| Sr. | Auditing Agency | Date | Days | Total observati ons | Closed Observatio ns | Pending Projects |
|-----|-------------------|----------|------|---------------------------|----------------------------|---|
| 1 | Power Tech Conlt. | Mar.2022 | 25 | 05 | 03 | Water cooled Chiller installation –Nov.22 planned Heat pump-Planned Oct.22 |
| 2 | Delta | Jan.2022 | 2 | 02 | 01 | 1. SVG installation-Planned in Aug.22 |
| 3 | MM Central team | Aug.2021 | 01 | 01 | 01 | |
| 4 | Accord Energy | May.2021 | 1 | 05 | 05 | |
| 5 | Xero | Feb.2021 | 1 | 02 | 02 | |

Major ENCON projects through internal benchmarking







- Marked projects from Global Business line/ Internal Benchmarking
- Marked projects from External Energy Audit



Vision on Energy Efficiency

- Vision:-To create an energy-friendly plant, where each person takes responsibility for energy consumption and actively works to reduce it.
- Objectives:-Use new technologies and renewable sources to
- Reduce energy consumption,
- Reduce CO 2 emissions generated

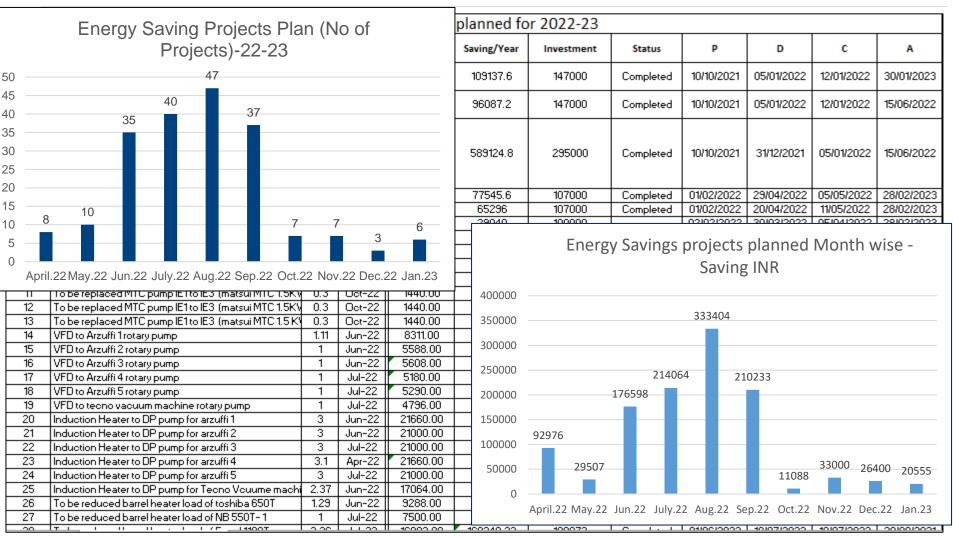
> Targets:-

- Reduction in Energy Consumption by 16% for FY 2022-23
- Increase Renewable energy Share up to 50%

Major Projects in Progress

- 1. Water Heat recovery for compressors
- 2. Heat pump for Annealing Ovens
- 3. Servo conversion of Existing IMM
- 4. Chiller replacement with more efficient chiller

Road map to achieve target 2022-23



148 Nos New Projects identified, plan -13,00,000 Units saving, 16% overall reduction



Energy saving Projects – 2019-20



| Sr. | Type of Proje | ect | No of Projects | kWh Saving Annual | Cost Saved Annual Mil. INR | Investment Made Mil. INR | ROI Months |
|-----|--|-----------------|-------------------|----------------------|----------------------------------|--------------------------------|---------------|
| 1 | Diffusion Pump Energy Savir | ng Kit | 05 | 180000 | 1.53 | 0.1 | 1 |
| | Heating idle off on annealing plate welding machines | g oven and hot | 10 | 127810 | 1.08 | 0.32 | 4 |
| 3 | VRF systems installation inste and cass in AC | | 04 | 168898 | 1.44 | 5.1 | 3.5 |
| 4 | Exhaction loop content SEC 3.92 | 2% | 14 | 21788 | 0.18 | 0.04 | 3 |
| 5 | Adiabatic cool replacements on charts | se, | 03 | 79266 | 0.70 | 1.0 | 17 |
| | MTC, Conveyors auto off & E optimization in Molding area | | 82 | 21090 | 0.25 | 0.12 | 6 |
| 7 | Heating optimization –Induc | tive heating on | 03 | 20898 | 0.18 | 0.12 | 8 |
| | moldine Total | kWh Saved | | I Savings | Investm | ent Mil IN | R |
| | Eco plu Projects street li | | | il INR | | | 12 |
| | replace 138 | 640920 | | 6.16 | | 7.0 | |

Energy saving projects - 2020-21



| Sr. | | Type of Proje | ect | No of Projects | kWh Saving Annual | Cost Saved Annual Mil. INR | Investment Made Mil. INR | ROI Months |
|-----|--|---|---------------|-------------------|-----------------------|----------------------------------|--------------------------------|---------------|
| 1 | | tower pump motor efficiency pump and | | 04 | 93928 | 0.83 | 1.0 | 16 |
| 2 | | nd HCBC blower repla an motors | 04 | 37887 | 0.34 | 0.41 | 14 | |
| 3 | Compre | essed air free deionizi | ngtars | 05 | Reduction SEC 5.00 | T | 0.6 | 30 |
| 4 | 4 Induction/Infr Reduction in SEC 2.95% | | | | Over 2019 kWh/Kg | 0.16 | 13 | |
| 5 | Evapora individu | | t year ve | 07 | 200 | 0.6 | 1.2 | 24 |
| 6 | Cooling compre | chamber for Llens | instead | 01 | 14700 | 0.13 | 0.5 | 46 |
| 7 | Idle of \ | /MM Circulation pum | nps & IMM MTC | 19 | 15500 | 0.14 | 0.05 | 4 |
| | | Total | kWh Saved | | I Savings | Investm | nent Mil IN | R |
| 8 | Thyriste | | | M | il INR | | | 8 |
| | fan anc 77 529355 | | 529355 | 4 | 4.71 | | 5.86 | |
| | | | | | | | | 11 |

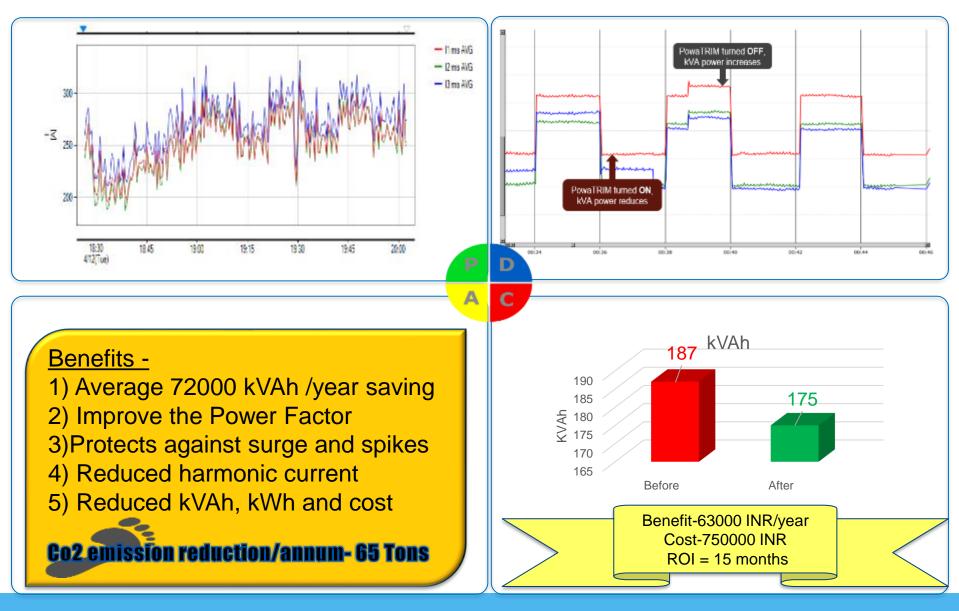
Energy saving projects – 2021-22



| Sr. | | Type of Projec | t | No of Projects | kWh Saving Annual | Cost Saved Annual Mil. INR | Investment Made Mil. INR | ROI Months |
|-----|--------------------------|--|------------|-------------------|-----------------------|----------------------------------|--------------------------------|------------------|
| | Induction Diffusion I | heaters on vacuum ^P ump. | metalizing | 04 | 64000 | 0.56 | 0.6 | 12 |
| 2 | replace wi | n of Old IE1 pump v ith more Efficient pu fans at () ing ' Reductio | p 5 & IE3 | 07 | 242000 | 2.2 | 1.6 | 09 |
| | Comp: | SEC 1.0 | 0% | 02 | Reduction SEC 7.00 | | 0.12 | 07 |
| 4 | Barrel b Nos | - Over last | | | Over 2020 kWh/Kg | | 0.43 | 09 |
| 5 | | installation of Mold parent power | ing DB to | 01 | 2000 | 0.63 | 0.75 | 15 |
| 6 | Oven hea | ting circuit optimiza | tion | 02 | 13000 | 0.13 | 0.15 | 16 |
| | | achine panel Cooling |], | | | | | |
| 7 | Conveyo AC´s,Occ | Total Projects | kWh Save | | ial Saving Mil INR | s Invest | ment Mil II | NR ¹⁰ |
| 8 | Dehumic loop,hea | 66 | 532100 | | 4.26 | | 4.6 | 10 |

MARELLI

Major Project 1 – Reduction in Apparent power



Major Project 2 – Energy efficient pump and motors

D





Before- KDI-1000 type, 10 HP two IE1 class induction motors are working for Chiller process water circulation.

Horizontal Deployment have been done at 4 other locations.

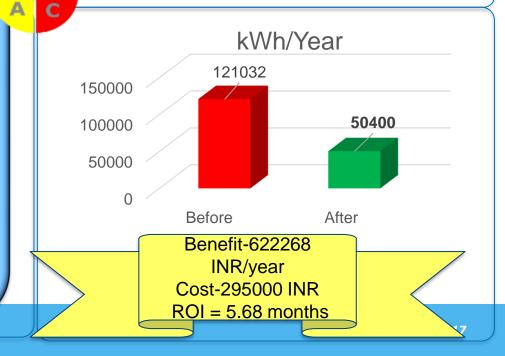
Benefits -

 After installation of Pump 41.64% energy savings achieved .
 Average 70632 kWh/year saving



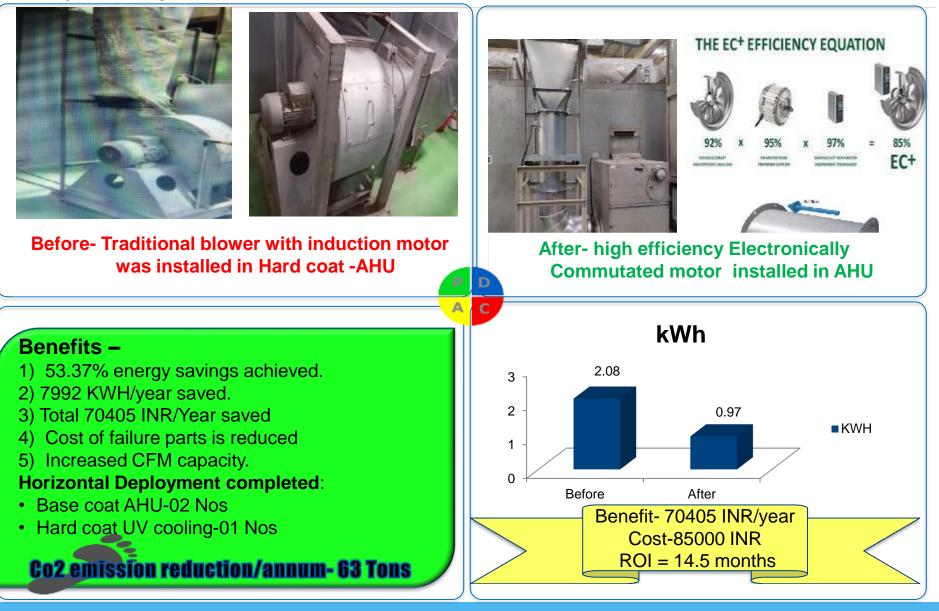


After- installed one 160M-2 type, shakti make, 10 HP IE3 Class one motor with energy efficient pump against two IE1 motors



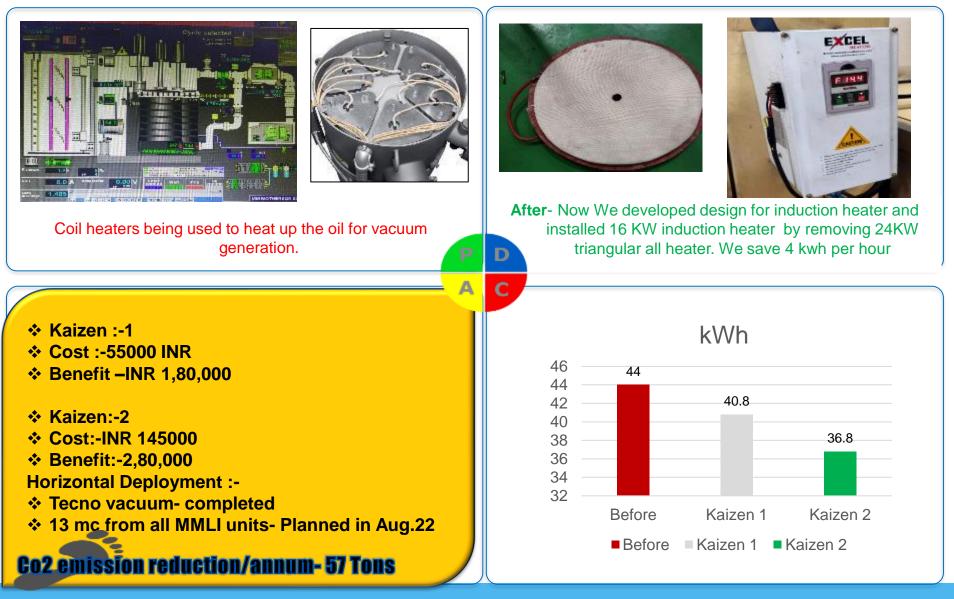


Major Project 3 – EC+ fan



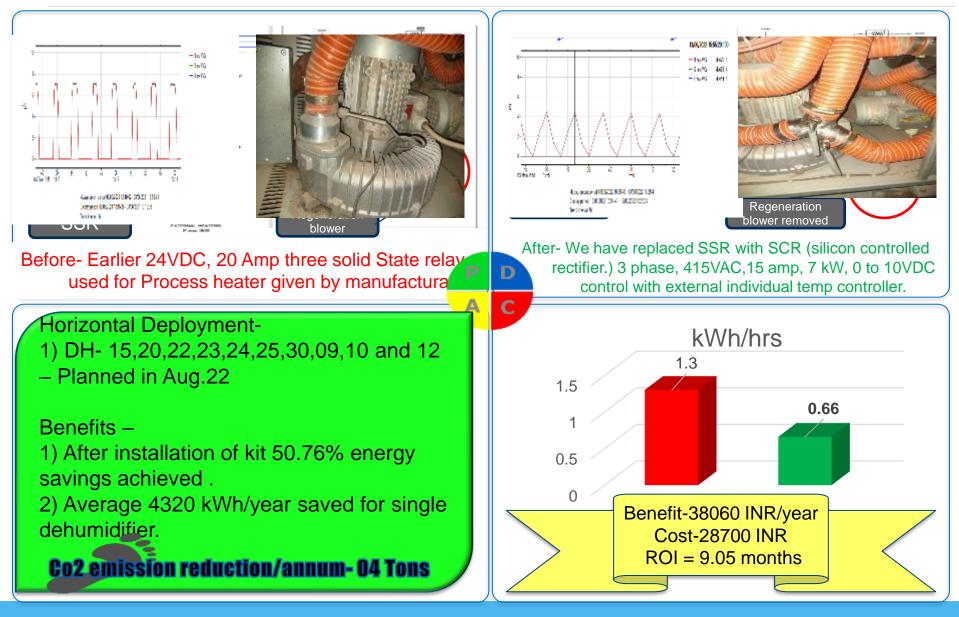
Innovative project 1 – Replacing cartridge heater by induction heater



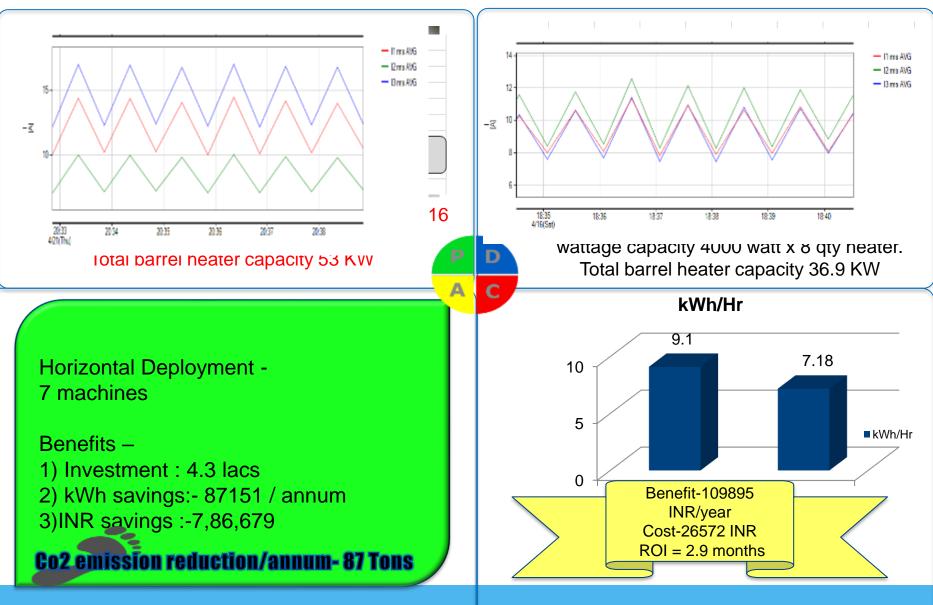




Innovative project 2 – Dehumidifier optimization



Innovative project 3 – Connected load reduction of IMM







Utilization of renewable energy source

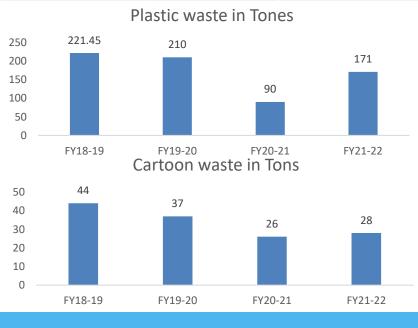
UTILIZATION OF RENEWABLE SOURCES

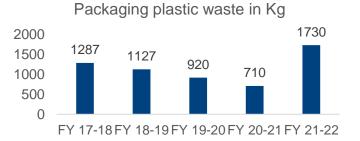
| | | | capa Kcal | stalled acity Mil /annum ermal) | Inst. Pl - capacity onsite(Elec kWp | -Plant ctrical) | G | eneration kWh | % of electrical energy | Onsite Inst. Capacity MMLI Group |
|-----|-----------------------|---|--------------|--|--|--------------------|---|------------------|------------------------------|---|
| ſ | 2015-16 | | | 260 | 0 | | | 0 | 0 | 0 |
| Ī | 2016-17 | | | 260 | 608 | | | 365113 | 4.2 | 608 |
| Ī | 2017-18 | | | 260 | 891 | | | 756738 | 6.7 | 1490 |
| Γ | 2018-19 | | - | 78.0 | 891 | | | 939584 | 9.2 | 1790 |
| Ī | 2019-20 | | | 0 | 891 | | , | 1088696 | 12.5 | 2090 |
| Ī | 2020-21 | | | 0 | 891 | | | 1032877 | 15.13 | 2800 |
| | 2021-22 | | | 0 | 979 | | | 965829 | 11.04 | 3000 |
| То | Target 22-23 | 3 | | 0 | 979 | | | 1357000 | 17.00 | 3088 |
| Rei | newable kWh | | 0 | 365113 | 756738 | 93958 | 4 | 1088696 | 1032977 | 965829 |
| % | of renewable | | 0 | 4.2 | 6.7 | 9.2 | | 12.50 | 15.13 | 11.04 |
| То | nnes of CO2 Offset | | 0 | 310 | 643 | 799 | | 925 | 878 | 859 |

Waste utilization and management



| Types of Waste | Waste generation FY 21-22 | In house Projects to reduce wastes | CO2 emission offset in Tonnes |
|-------------------------|---------------------------------|---|-------------------------------------|
| Plastic waste | 171 T | Online gate grinders for runner reusage on 6 Machines Part weight reduction by runner size reduction | 660 T |
| Packaging plastic waste | 1.73T | Wrapping role size reduction, wrapping elimination Polybag recirculation started | 4.7 T |
| Cartoon waste | 28 T | 1)To Send 100% cartoon waste to authorized re processor | 9 T |
| Wood waste | 2.76 T | 1)Re circulation of Pallets2)To send 100% wooden scrap to authorized re processor | 1 T |







Project 1 – Waste reuse



BEFORE: Scrapping plastic runners, gates & rejected parts AFTER: Online gate grinder installed on 4 machines in FY 20-21







CO2 emission is reduced by 156 Ton

Saving– 4.0 Mil INR /year Investment–2.0 Mil. INR ROI –6 Months

Project 2 – Waste elimination



Wrapping film elimination in X445 TL HSG



X445 TL HV & LV HSG wrapping with wrapping film part keep in dunnage bin. Part kept with wrapping due to scratches issue. X445 TL HV & LV HSG without wrapping

445 TL HV & LV HSG without wrapping part keep in open (PP) bin. Wrap film eliminated.

Horizontal Deployment - 27 Projects

Benefits -

- 1) Elimination of 16242 kg of Pack. Plastic
- 2) CO2 Emission reduction -32 Tons

Benefit to Environment

Plastic waste reduced by

2440 kg/annum

D

С

Α

CO2 emission is reduced by 5 tons

MMLI sustainability goals and targets

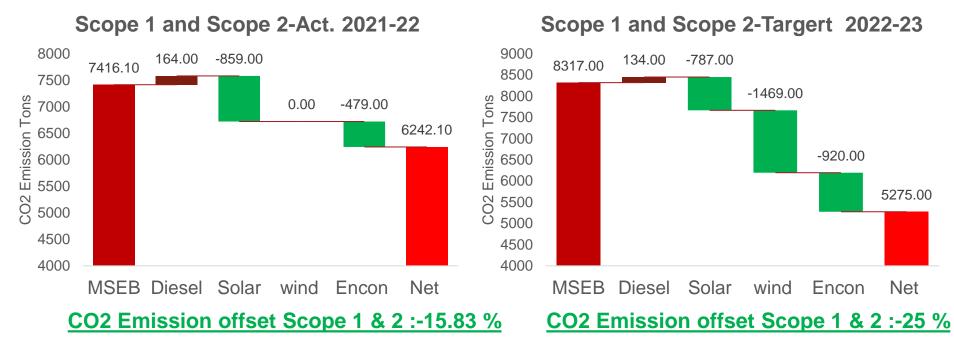
- Reduce Scope 1 + Scope 2 emissions by 25% by 2023
- 50% by 2030
- 75% by 2035
- Carbon neutral (Scope 1+ Scope 2) by 2040
- ISO certifications :-
 - ISO 50001 Energy Management System - Certified in 21-22
 - ISO 14064 -GHG reporting- by 2022-23
 - ISO 14040 LCA Life cycle assessment- by 2023-24
 - ISO 14067 PCF Product Carbon Footprint by 2024-25
- SAQ 4.0 •
- Water Neutral :- 2023-24 •
- Legal Compliances 100%
- 2021-22 targets Vs. Actual –

- 2022-23 targets –
- Reduce Scope 1 + Scope 2 emissions by 15% act. 16%
- ISO 50001 certification Done
- SEC reduction by 5 % Act. 7%
- Establish Scope 3 data collection and calculation
 Green Power % 30 of total usage - Done
- Reduce Scope 1 + Scope 2 emissions by 25% by 2023
- ISO 14064 -GHG reporting- by 2022-23
- SEC reduction by 16% over 2021-22



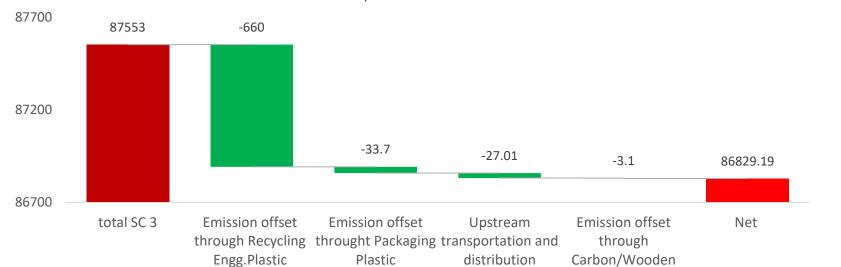


GHG inventory - Scope 1+2



| Project identified | Target | CO2 offset potential |
|-------------------------|---|----------------------|
| ENCON projects | 148 Nos of Projects, 1.3 M. kWh | 920 Tons |
| Green power procurement | 1.6 MW wind mill power procurement with captive. 2.2 M. kWh | 1469 Tons |
| Duel fuel system for DG | Hybrid fuel sys installation | 14 Tons |

GHG inventory - Scope 3



Scope 3 – 2021-22

| Project identified | Target | CO2 offset potential |
|-------------------------------|--|----------------------|
| Engineering plastic recycling | 1)Gate grinder- 16 Nos of Parts 2)Runner weight-12 Nos of Project 3)100% waste to send to auth. Recycler | 600Tons |
| Waste recycling and reuse | 1)Gate grinder- 16 Nos of Parts 2)100% waste to send to auth. Recycler | 50 Tons |
| Freight reduction | 1)Packaging optimization 2)Truck utilization | 150 Tons |
| CNG for freight vehicles | 1)CNG vehicles for freight vehicles | 100 Tons |



Project 3 – Upstream transportation reduction





| Β | ef | 0 | re |
|---|----|---|----|
| | | | |

| PPQ | 20 |
|--------------------|-----|
| No Of Trolley/Trip | 6 |
| Qty/Trip | 120 |
| | |



| PPQ | 16 |
|-------------------|-----|
| No Of Unibox/Trip | 16 |
| Qty/Trip | 256 |

After

| Project Theme :- | Carb | on Emmision | offset throu | th reduction | no of trips | by conversio | n from trol | ley to Unib | ox |
|----------------------------|--------|-------------|--------------|--------------|-------------|--------------|-------------|-------------|-------|
| Conv.Factor | 0.307 | | | | | | | | |
| CO2 Offset (0.035/trip) | 0.035 | | | Nexon HL | | | | | |
| Month | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Total |
| Total Part Supplies | 21805 | 17261 | 20943 | 20072 | 24951 | 28916 | 25184 | 29407 | 80081 |
| No of trips (Before) | 182 | 144 | 175 | 167 | 208 | 241 | 210 | 245 | 667 |
| No of Trips (After) | 85 | 67 | 82 | 78 | 97 | 113 | 98 | 115 | 313 |
| No of Trips (Reduced) | 97 | 76 | 93 | 89 | 110 | 128 | 111 | 130 | 355 |
| CO2 Offset | 3.38 | 2.67 | 3.24 | 3.11 | 3.87 | 4.48 | 3.90 | 4.56 | 20.75 |
| | | | | Nexon Fend | er TL | | | | |
| Month | Aug-21 | Sep-21 | Oct-21 | Nov-21 | Dec-21 | Jan-22 | Feb-22 | Mar-22 | Total |
| Total Part Supplies | | | | 19387 | 25598 | 28596 | 25224 | 29588 | 19387 |
| No of trips (Before) | | | | 67 | 89 | 99 | 88 | 103 | 67 |
| No of Trips (After) | | | | 20 | 27 | 30 | 26 | 31 | 20 |
| No of Trips (Reduced) | | | | 47 | 62 | 70 | 61 | 72 | 47 |
| CO2 Offset | 0.00 | 0.00 | 0.00 | 1.65 | 2.18 | 2.43 | 2.15 | 2.52 | 6.26 |

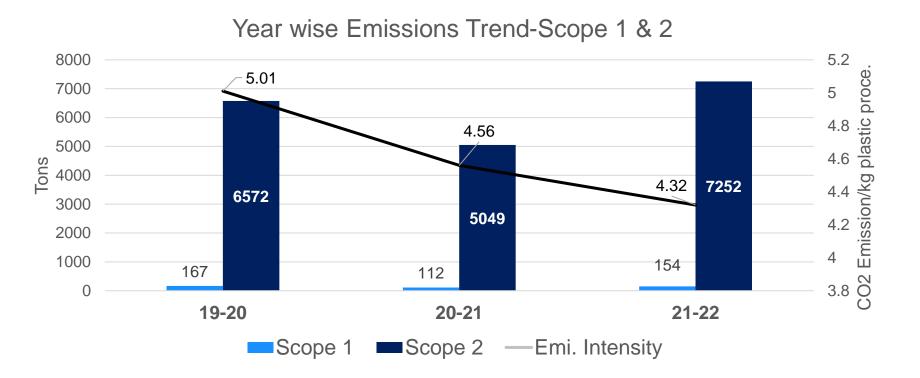
*No of trips Reduced per year-402

*CO2 Emission offset :- 27 Ton/Annum



Carbon footprint trend and emission intensity

- Reporting Level Scope 1 & 2 reporting to Motherson Corp. and published group sustainability report for 2020-21
- FY 2021-22 will start plant level reporting after certification of ISO:14064





Responsible value chain

Responsible sourcing of materials; product subcomponents, packaging (ensuring recyclability wherever possible); inbound, inter-company and outbound logistics

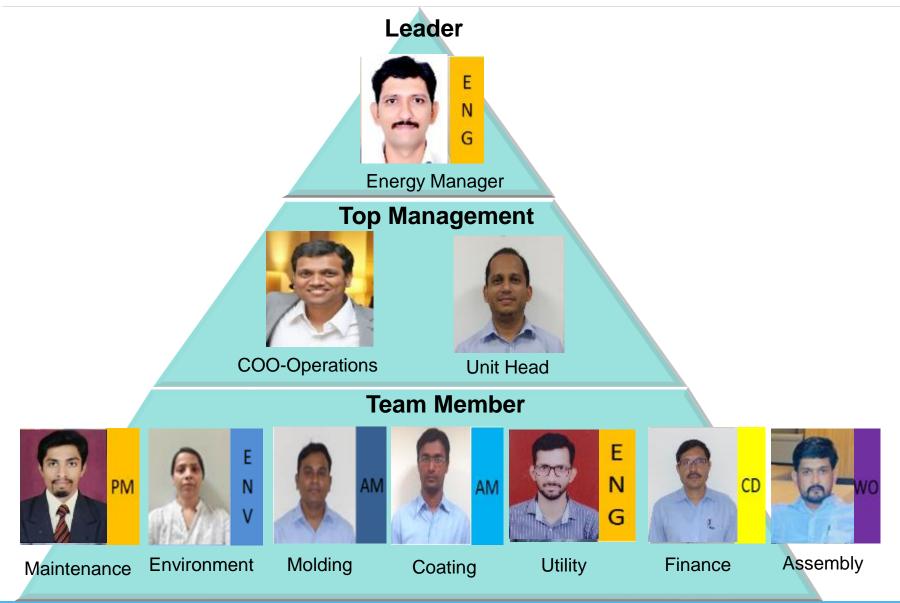
- Implement Product Carbon Footprint (PCF) processes and awareness throughout thevalue chain.
- Improve energy efficiency use and promote use of renewable energy throughout the supply chain.
- Actively support the implementation of carbon offset initiatives in the value chain.
- Target to avoid the use of conflict minerals and removal of any SOCs from our product lines and processes throughout the value chain

| L | 1 | r | | | | 1 |
|-----|--|---------|---------|-------------------|---------|---------|
| Sr. | Sustainability Parameter | 2021-22 | 2022-23 | 2023-24 | 2024-25 | 2025-26 |
| 1 | Adhere to Motherson Supplier Code of Conduct | 0 | Act 9 | 4% | | |
| 2 | Supplier coverage with SAQ 4.0 | | | | | |
| | Direct material | 100% | Act 8 | 7% | | |
| | Indirect material | | 100% | | | |
| | Capital equipment provider | | | 100% | | |
| | Service provider | | | | 100% | |
| 3 | SAQ 4.0 Score - Direct material suppliers | 50% | Act 6 | <mark>2%</mark> % | 80% | 90% |
| 4 | ISO certifications - Direct material suppliers | | | | | |
| | ISO 14001 | 0 | Act 6 | 0% | | |
| | ISO 18001 | | 0 | | | |
| | ISO 50001 | | | 0 | | |
| 5 | Establish Scope 1 and 2 emissions data - Direct material suppliers | 0 | Act 3 | 5% | | |
| 6 | Green energy - Direct material suppliers | | >10% | | >30% | |
| 7 | Water neutral - Direct material suppliers | | | | 0 | |
| X | Carbon neutrality (Scope 1+2) - Direct material suppliers | | | | | |
| | | | | • | • • | |

O-Plan

Energy efficiency and sustainability team

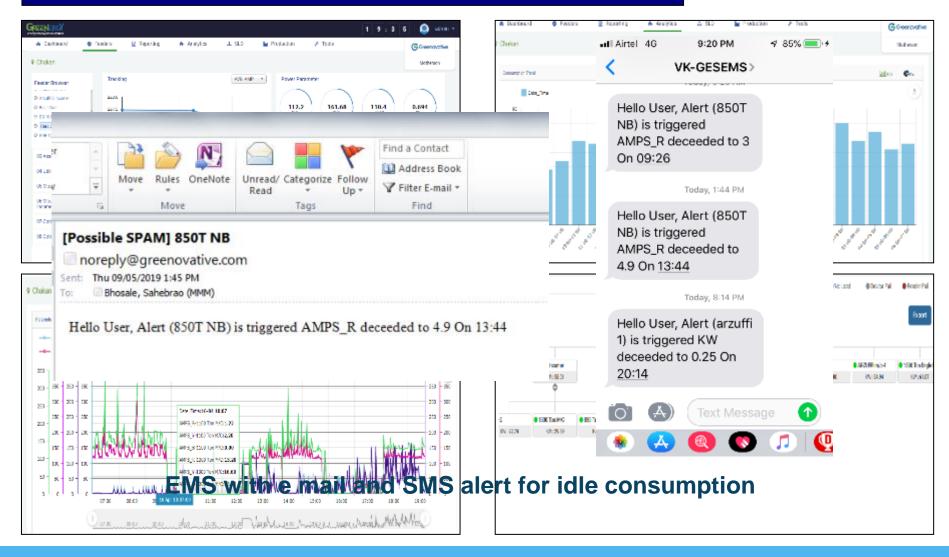




Teamwork, Employee involvement and monitoring



Installation of Electric energy Measurement instruments:



Teamwork, Employee involvement and monitoring



Communication & Energy saving practices Visuals Review standardization Every 1 Degree Increase in AC MARELD **Temperature Saves 6% Electricity** Department wise Operation Objectives (KPI) > 2017-18 -Which Means -Name of Street, of April Maple April ALT Aug.C 120 ARELL Keep Your 146 -AC set point 100 MARSON D ----1.10 mach Power cost ₹3240/Year -CARD . Close All Doors 1)energy Saving Upto 360kWh Per/Annum/AC & Windows Unit 1 -When AC is ON 2)Reduction in CO2 emission by 0.3 Ton/ Annum/AC Unit 2 and the second Conserve Energy, To Preserve Future...!!! 75.68 MARELL ₹ Q22/Hr/A 25-00 10.00 30 Er Ap17 Sep17 0p17 Dec.(7 Jan-18 Cab.18 March He/MIC Turn OFF The Pump And Keep Heating in Standby Mode If Machine Is In Idle Condition Every 1 Bar reduction In Compressed air pressure, Saves 3%



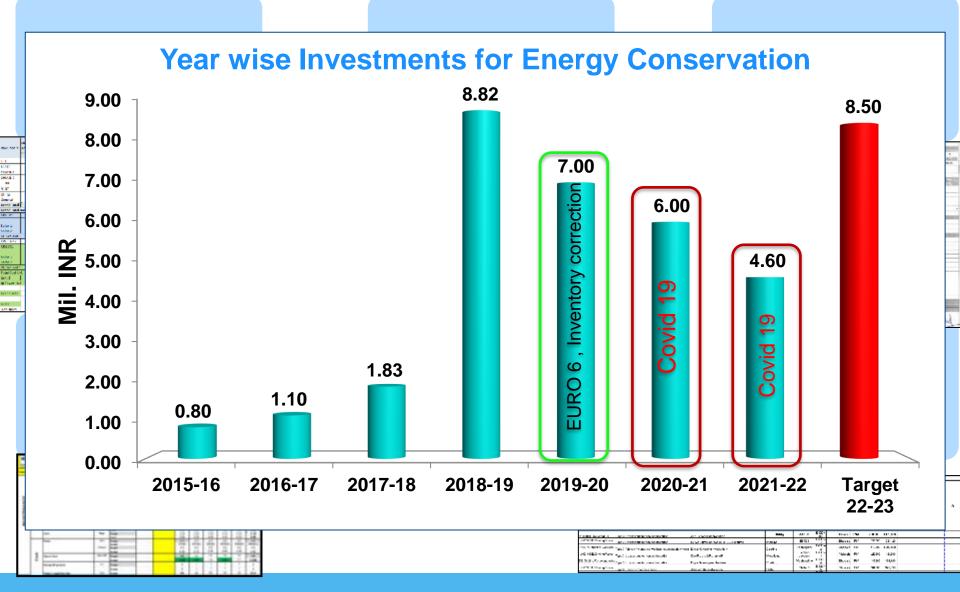
300 Kg/

-24 °C

1) This will save electricity up to 25.0 Units/Hour/MC 2)Will Reduce 0.02 Ton CO2 Emission/Hone/MC









Teamwork, Employee involvement and monitoring

| Sr no. | Project Descrption | Annual kWh Saving | Annual saving IN INR | Investment in INR | Resposiblity | Project submit Date | |
|--------|--|---|---------------------------------------|-------------------|------------------|---------------------|--|
| 1 | To reduce energy consumption by replacing 36 W tub rod with 12W LED light to inspection table | 604.8 | 5328.288 | 750 | Vinayak Padwal | 12/03/2022 | |
| 2 | To reduce energy consumption by idle off heating of TL5 vibartion welding mc | 1368 | 12052.08 | 2500 | Sagar Kumbhar | 14/02/2022 | |
| 3 | 900T-I conveyor anstatic blower idle off by providing timer | 410 | 3612.1 | 800 | Yuvraj | 10/02/2022 | |
| 4 | To provided flow control valve to reduced air consumption | 170 | 1497.7 | 450 | Ravikant Ravi | 14/01/2022 | |
| 5 | Electric Panel AC and cooling fan to be Idle OFF of engel 1 | 368.40 | 3245.604 | 1500 | Kishor Kondane | 28/02/2022 | |
| 6 | Electric Panel AC and cooling fan to be Idle OFF of Engel 1 | 378.00 | 3330.18 | 1500 | Nitin Chaudhari | 28/02/2022 | |
| 7 | Electric Panel AC and cooling fan to be Idle OFF Engel 2 | 379.00 | 3338.99 | 1500 | Jadunath das | 28/02/2022 | |
| 8 | Electric Panel AC and cooling fan to be Idle OFF 1050 T | 387.00 | 3409.47 | 1500 | Shyam K | 28/02/2022 | |
| 9 | Reduced MTC idle Loss by providing Timer, 191-2 | 672.00 | 5920.32 | 5000 | Rohan Jadhav | 31/03/2022 | |
| 10 | Electric Panel Cooling fan to be Idle OFF 550T-1 | $\overline{}$ | .13 | 200 | yuvraj | 03/03/2022 | |
| 11 | - | 46 Ideas | | 800 | Sidhhartha | 30/03/2022 | |
| 12 | Subzero Quality room AC 2 | 40 10003 | | 1500 | Sachin | 01/03/2022 | |
| 13 | Subzero controller to Account room AC 1 20 | 9 Project | · · · · · · · · · · · · · · · · · · · | 1500 | Nitin | 01/03/2022 | |
| 14 | Motion sensor to lakshy room | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 98.95 | 1000 | Prashant /padwal | 01/03/2022 | |
| 15 | Subzero Quality room AC 1 | علا | 7.35 | 1500 | Remeswar | 01/03/2022 | |
| 16 | Electric Panel AC and cooling fan to be Idle OFF of 910T | 177.0 | 155.37 | 100 | Shyamk | 25/01/2022 | |
| 17 | Electric Panel AC and cooling fan to be Idle OFF of 1300T | 192.00 | 1691.52 | 100 | Kishor Kondane | 22/02/2022 | |
| 18 | Energy consumption to be reduced of Arzuffi 5 cabin AC by pividing b | 1200.00 | 10572 | 500 | Kishor/shyam | 01/05/2021 | |
| 19 | Sub zero controller to be installed to PE dept Split AC 1 | 480.00 | 4228.8 | 1500 | Rameswar/Padwal | 02/05/2021 | |
| 20 | Sub zero controller to be installed to Quality room Split AC 3 | 480.00 | 4228.8 | 1500 | Rameswar/Padwal | 02/05/2021 | |
| 21 | Sub zero controller to be installed to Quality room Split AC 2 | 480.00 | 4228.8 | 1500 | Padwal | 02/05/2021 | |
| 22 | Sub zero controller to be installed to Finance room Split AC 1 | 480.00 | 4228.8 | 1500 | Padwal | 02/05/2021 | |
| 23 | Sub zero controller to be installed to Finance room Split AC 3 | 480.00 | 4228.8 | 1500 | Rameswar/Padwal | 02/09/2021 | |
| 24 | Sub zero controller to be installed to Finance room Split AC 2 | 480.00 | 4228.8 | 1500 | Rameswar/Padwal | al 02/09/2021 | |
| 25 | Sub zero controller to be installed to PE dept Split AC 2 | 480.00 | 4228.8 | 1500 | Bhagwat k | 02/09/2021 | |
| 26 | Motion sensor to Auditor room | 45.60 | 401.736 | 1000 | Rameshwar/Padwal | 05/06/2021 | |
| 27 | Motion sensor to Disha room light | 45.60 | 401.736 | 1000 | Rameshwar/Padwal | 05/06/2021 | |
| 28 | Motion sensor to board room | 1684.00 | 14836.04 | 2200 | Rameshwar/Padwal | 01/06/2021 | |
| 29 | To reduce idle loss of RO Feed and inlet pump by providing Float Lev | 1155.00 | 10175.55 | 1950 | Rameshwar | 03/06/2021 | |

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ISO certifications





Sales turnover v/s Encon Investment %

| Year | Sales Turnover M.Inr | Encon Investment M. Inr | % of Encon investment |
|---------|----------------------------|-------------------------------|-----------------------------|
| 2016-17 | 1508 | 0.9 | 0.06% |
| 2017-18 | 2518 | 1.84 | 0.07% |
| 2018-19 | 2993 | 7.83 | 0.26% |
| 2019-20 | 3360 | 7.0 | 0.21% |
| 2020-21 | 1929 | 6.0 | 0.31% |
| 2021-22 | 3722 | 4.6 | 0.13% |

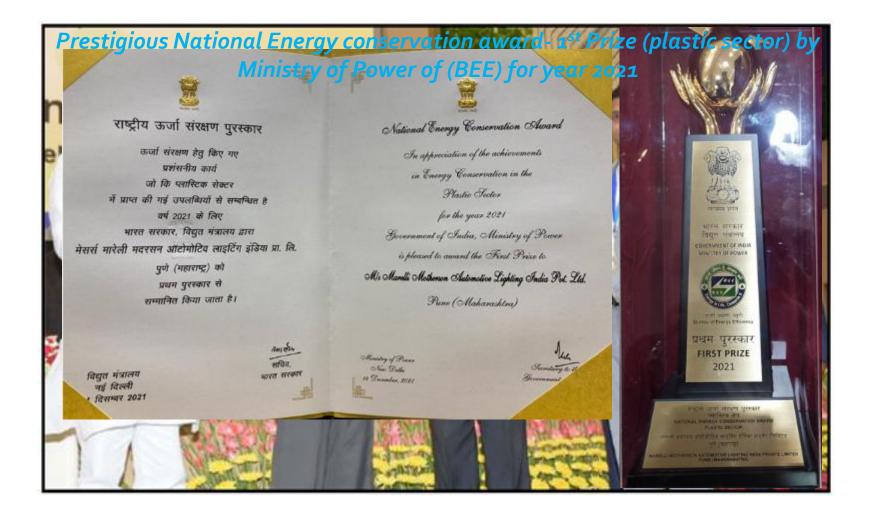
*Green energy budget is separate from Energy Conservation

MMLI Pune Plant certified with ISO 50001:2018

MMLI planned to implement ISO 14064 - in FY 2022-23



- Power analyser and micro level measurement of consumption
- Internal and External Benchmark
- Training on GHG by CII



Sustainability is a matter of continuous improvement.



Join us on this journey

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April Martin