

Mumbai International Airport Ltd.

Progress towards Sustainability & Energy Excellence



25th National Award for Excellence in Energy Management, 2024

Presenters

P Logesh

DGM – E&M

Sri Raghavan S
Senior Manager

Moonshots..!!

ACI – ASQ Award - Best Airport over 40 MPPA in Asia Pacific Region [7th consecutive time]

ACI Asia – Pacific Green Airport Recognition 2023 – Recognized for elimination of single use plastic

ACA - ACI Level 4+ Certified Airport.
Target: Level 5 by 2025

IGBC Platinum Certified, under existing building category

Wings India Award – 2024 – Contribution in Operational Excellence



MIAL runs on 100% renewable energy

Key Highlights:

- Major Segments: T1 → Domestic
T2 → International+ Domestic
CA → Corporate Aviation
Cargo → To handle Cargo Operation
Airside → Runway, Apron & Taxiway
MLCP → 2 Multi layer car parking.
- Once recorded the **busiest single runway airport in the world** → >1000 flights per day
- Handled >52 million passengers in FY24
- **India's 1st Airport to Achieve ACI Health Accreditation**



Salient Features



Design of Terminal 2 is inspired from India's national bird – The Peacock

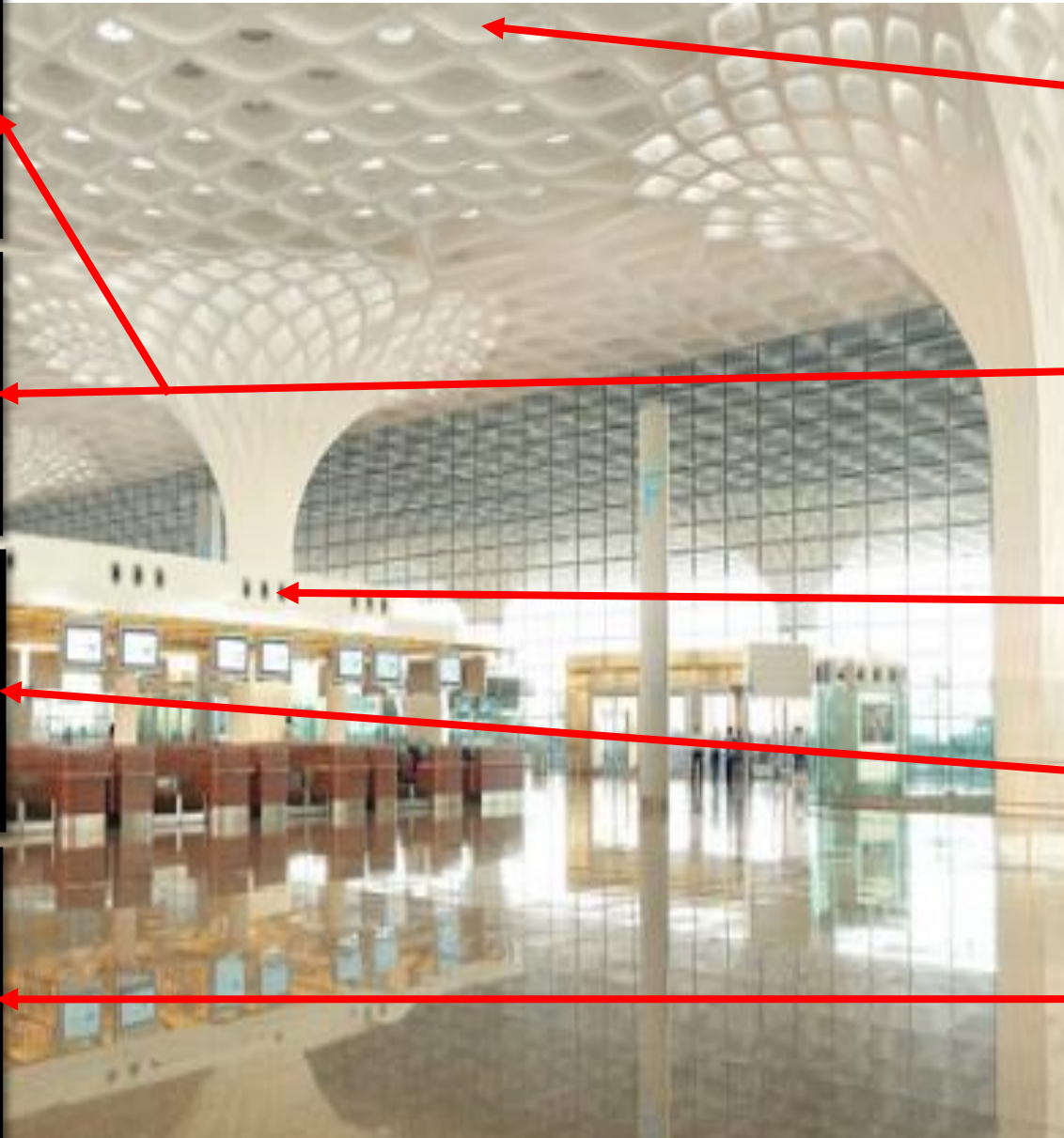


3 Km Multi story art wall with 7000 Pieces of Artwork and Artefacts



ATC Tower, tallest in India(Height - 83.2 Mtrs, Built up area is 2800 Sq. Mtrs.)

Design Features



Roof → **Energy efficient TPO membrane.**
It facilitates:

- Resistance to UV
- High reflective property(SR >0.8)

- Ample **Day Light harvesting**
- **Double glassed façade** to reduce heat ingress.

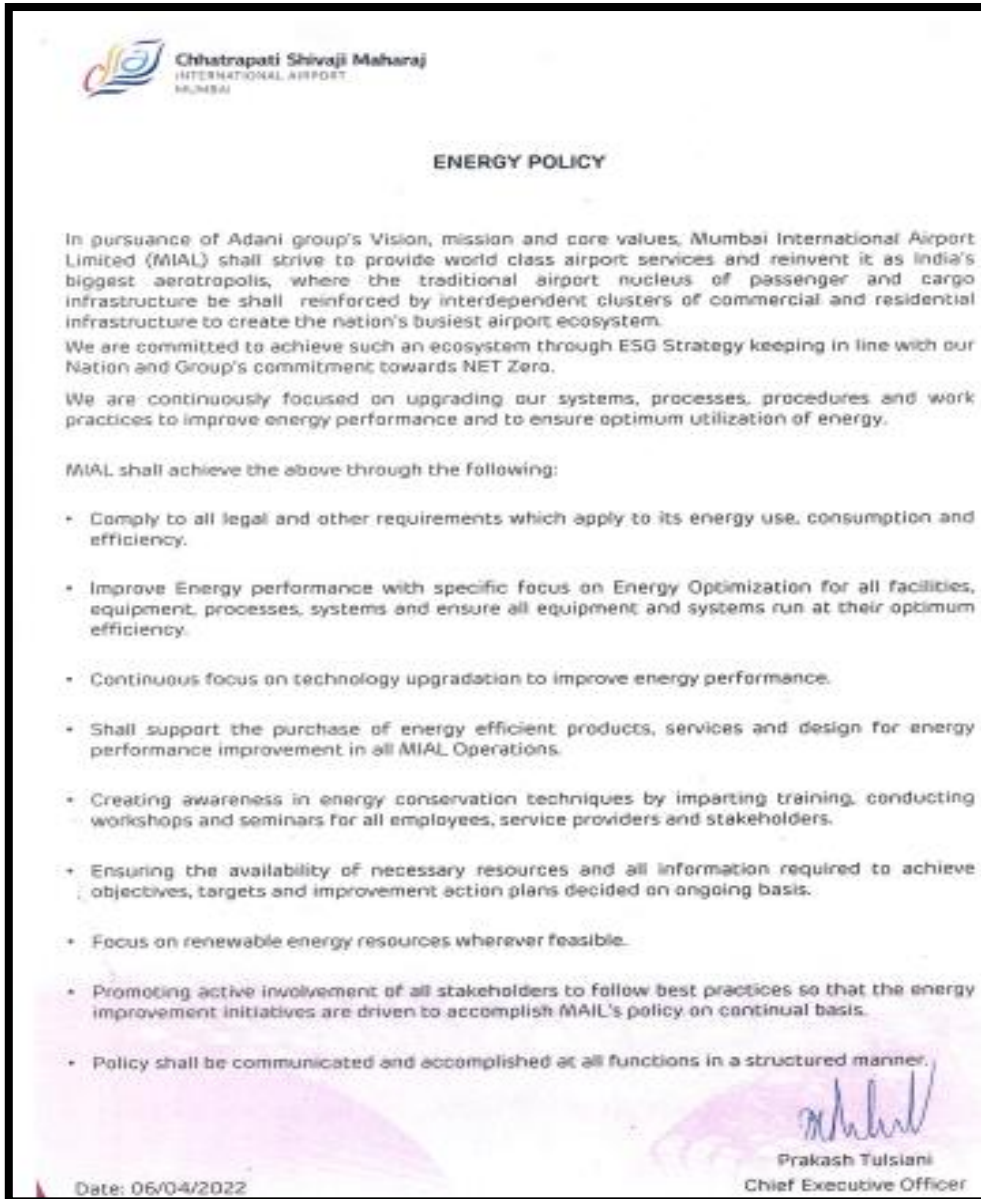
- SHGC: 0.23
- VLT: 60%

- **VAV controlled system** across terminal system to optimize HVAC consumption

- **Rich landscape of greenery** maintained in and across terminal → Reduce heat, upgrades air quality.

Provision of:

- **Task lighting** in offices
- **Occupancy sensors** in staircase, MLCP and lesser movement areas

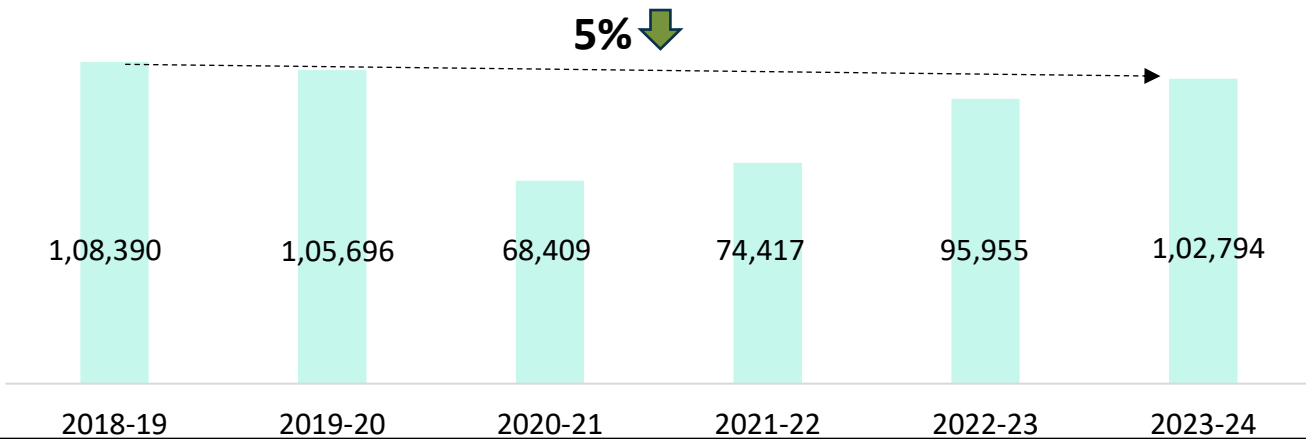


Major highlights:

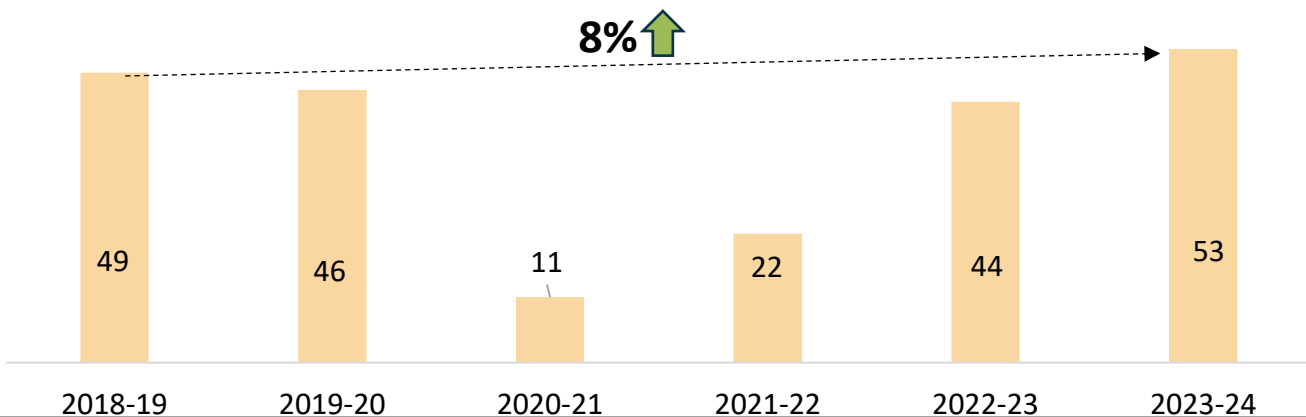
- Focus on energy optimization
- Use of energy efficient products
- Energy conservation awareness
- Using necessary resources to achieve targets
- Focus on Renewable energy
- Active involvements in energy conservation

Energy Consumption

Energy Consumption- MWh



PAX Count- in millions



Key Highlights

Energy Consumption [in 6 years]:

- Reduced by 5% even though PAX increased by 8%

Key contributors include:

- **Technology Upgradation** → Latest energy efficient equipment
- Running equipment at **optimum efficiency**.
 - ikw/TR for chiller – 0.60 (design data 0.63)
 - VFD controlled pumps for chillers, cooling towers and AHUs.
- Continuous focus on **Operational excellence** to reduce energy losses.
- Implementation of **IOT based systems**:
 - Temperature sensors
- Individual lamp control monitoring system
- **BMS & SCADA** → Better monitoring & control.

7% increase in Energy Consumption in FY24 vs FY23 :

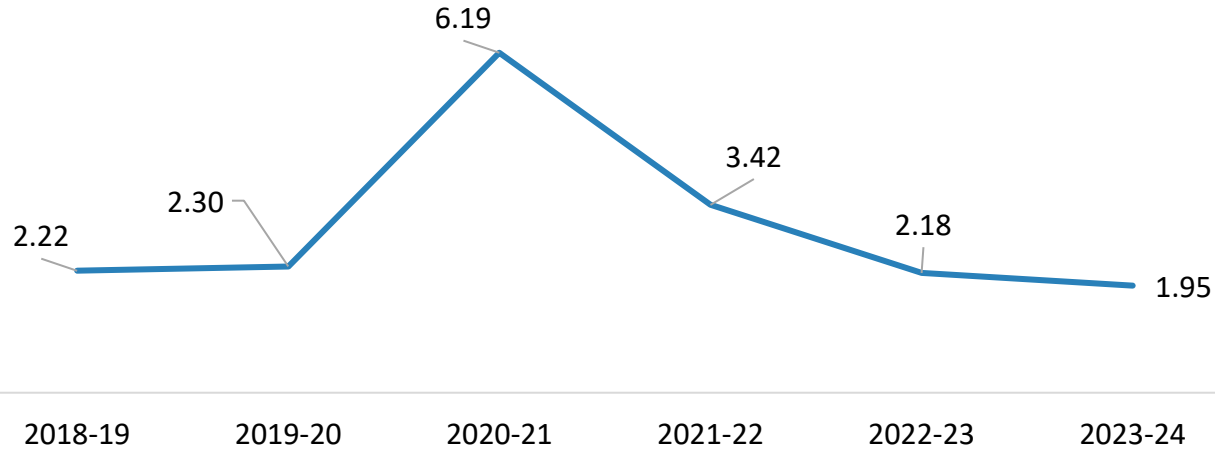
1. Additional chiller run hrs. due to construction work in operational area

2. Higher Ambient temperature

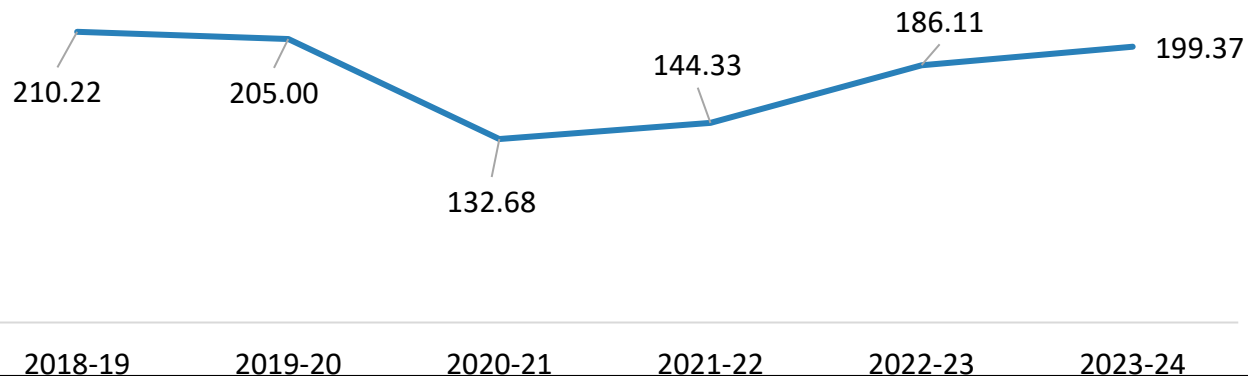
3. Increase in PAX by 20%

Specific Energy Consumption (SEC)

Energy Consumption/PAX



Energy Consumption/Area(sqm)

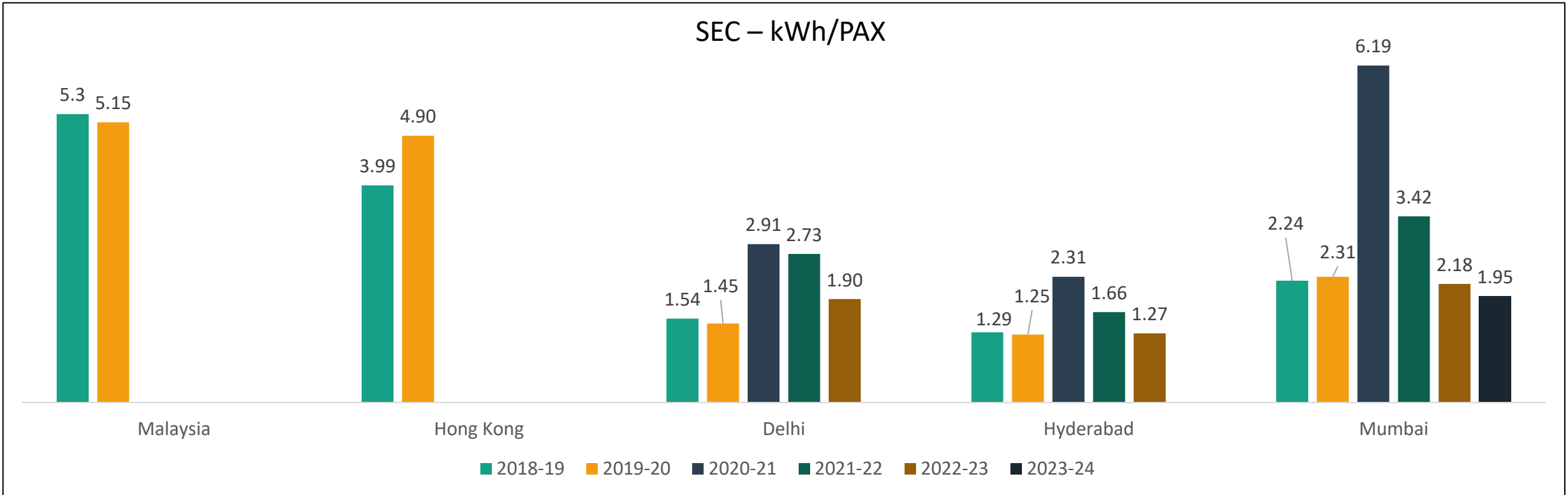


Key Highlights

- Energy Consumption is a mix of Fixed and Variable Load:
 - Fixed load ~40% → Does not depend on PAX
 - Variable load ~60% → Dependent on PAX
- 7% increase in SEC when calculated in terms of Kwh/sqm is attributed due to:
 1. Construction works in Operation area led to:
 - Higher Chiller running hrs.
 2. Higher ambient
 3. Contribution of Variable load due to increase in PAX

Reduced SEC (Consumption/PAX) by 12% in last 6 years

National & Global Benchmark



Key Factors Affecting Energy Benchmark

- Climatic Zones** – Mumbai falls in **hot & humid zone** with little difference in ambient during summer & winter months so limited scope of optimization during winter.
- Building Envelope** – AHUs in MIAL are mostly centralized(at ground floor) with vertical distribution, providing limited scope to switch off AHUs based on localized area of occupancy

Robotic Process Automation

1. Auto Generation of Reports from multiple systems & projecting on dashboards
2. Real time Situational Awareness
3. Key KPIs to support data driven decision making

Comprehensive Energy Management Solution

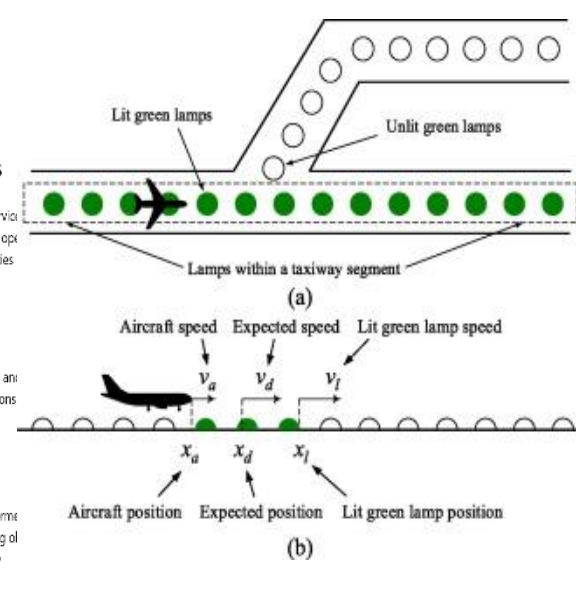
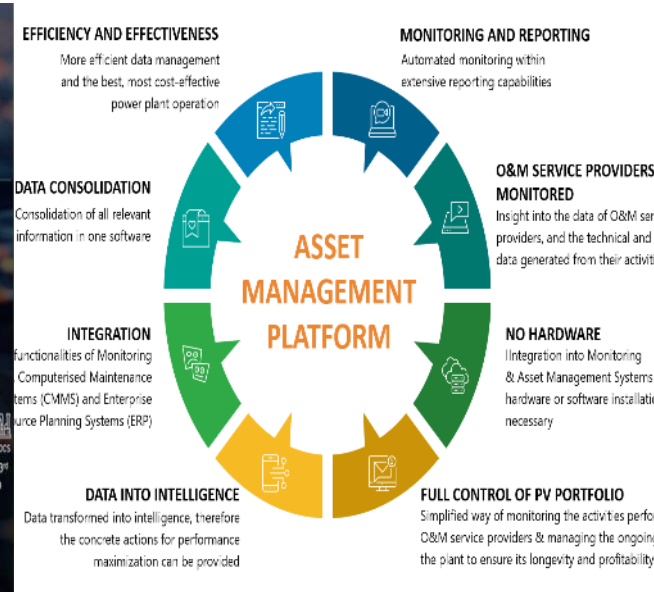
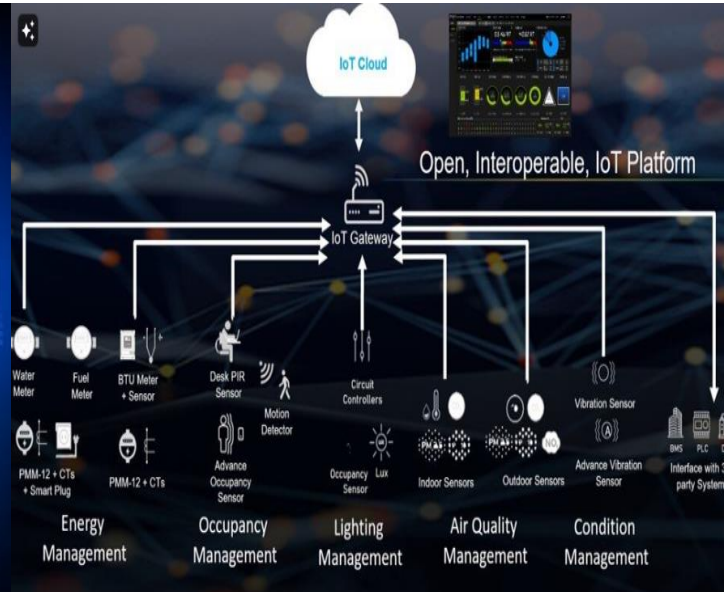
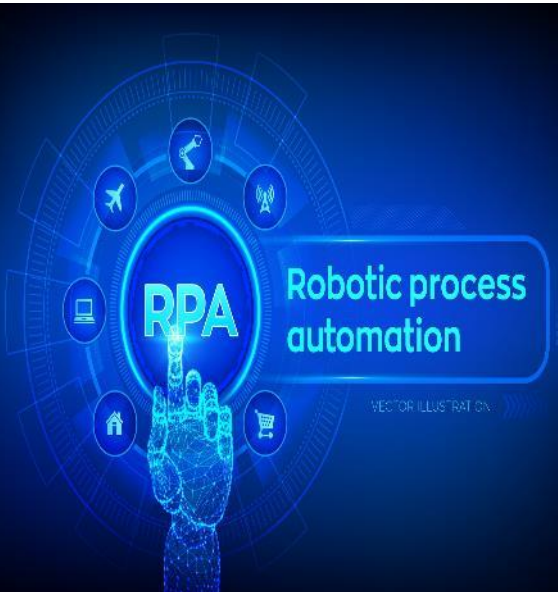
1. All Electrical assets & Water to be brought under single umbrella.
2. AI/ML based Predictive Analytics with real-time performance monitoring.

Enterprise Alert and Asset Management System

1. Phase 2 of Digitalized maintenance process.
2. Shift from Preventive Maintenance to Predictive Maintenance Process.
3. Shift from Operation in silos to more collaborative approach

Follow The Green

1. Automatic operation of Airside Ground lighting system.
2. Auto Switch On/OFF lights basis Flight movements.



Replacement of belt driven fan with EC fan in AHUs[Phase 2]

Project Brief:

- Existing AHU fans have belt driven assembly. It has been proposed to replace the same with direct driven EC fan.
- Project Cost: 6 Cr (For phase-2)
- Pilot Project successfully completed earlier

Execution Plan:

- Project being executed in phase-wise manner.
 - 1st phase – 50 AHUs [completed in FY 23-24]
 - 2nd phase - 46 AHUs [planned in FY24-25]
- Proposed PDC for 2nd phase – Mar'25
- EC fan to be used - Rosenberg

Benefits:

- ❖ Energy saving : ~ 25%
- ❖ Estimated Annual Energy Saving – 1.6 million units
- ❖ Reduced Maintenance time
- ❖ Lower Maintenance Cost
- ❖ Provision of redundancy system
- ❖ Additional VFD not required.



Total 3 Energy Saving Projects planned in FY 2024-25 - Estimated Saving ~2 million units

Upgradation of Primary and condenser pumps-motor assembly with Energy efficient pumps

Problem Area:

1. Existing motor is IE-1 [EFF-1] rating and is more than 12 years old.
2. Efficiency too low, ~70%
3. High maintenance cost and time

Proposed Solution:

1. Replacement of all motor assembly with IE-4 set-up.
2. Efficiency of the new system >90%
3. Reduced maintenance time and cost.
4. Improved availability of the system.

Project Details:

1. To be executed in 3 phases
2. Phase -1 : 4 Pump-motor assembly to be replaced
3. Estimated Energy Saving: ~10% [0.2 million units]

IOT based smart street lighting control system for remote bays and perimeter road

Problem Area:

1. Remote bays at airside are not 24*7 manned. Every time Manpower needs to visit location to Switch On/OFF lights.
2. Leads to Lamps being turned ON for extended period.
3. Unserviceable lamps is also difficult to get identified at the right time.

Proposed Solution - IOT Based Lighting:

1. Operation of lamps via online application.
 2. Realtime system health checkup
 3. Lamps to be Switch On/OFF basis requirements [saving energy losses]
- No of lights to be replaced [Phase-1] - 15
 - Estimated Annual Energy Saving: 0.01 million units

Synopsis- Energy Saving Projects implemented in last 3 yrs.

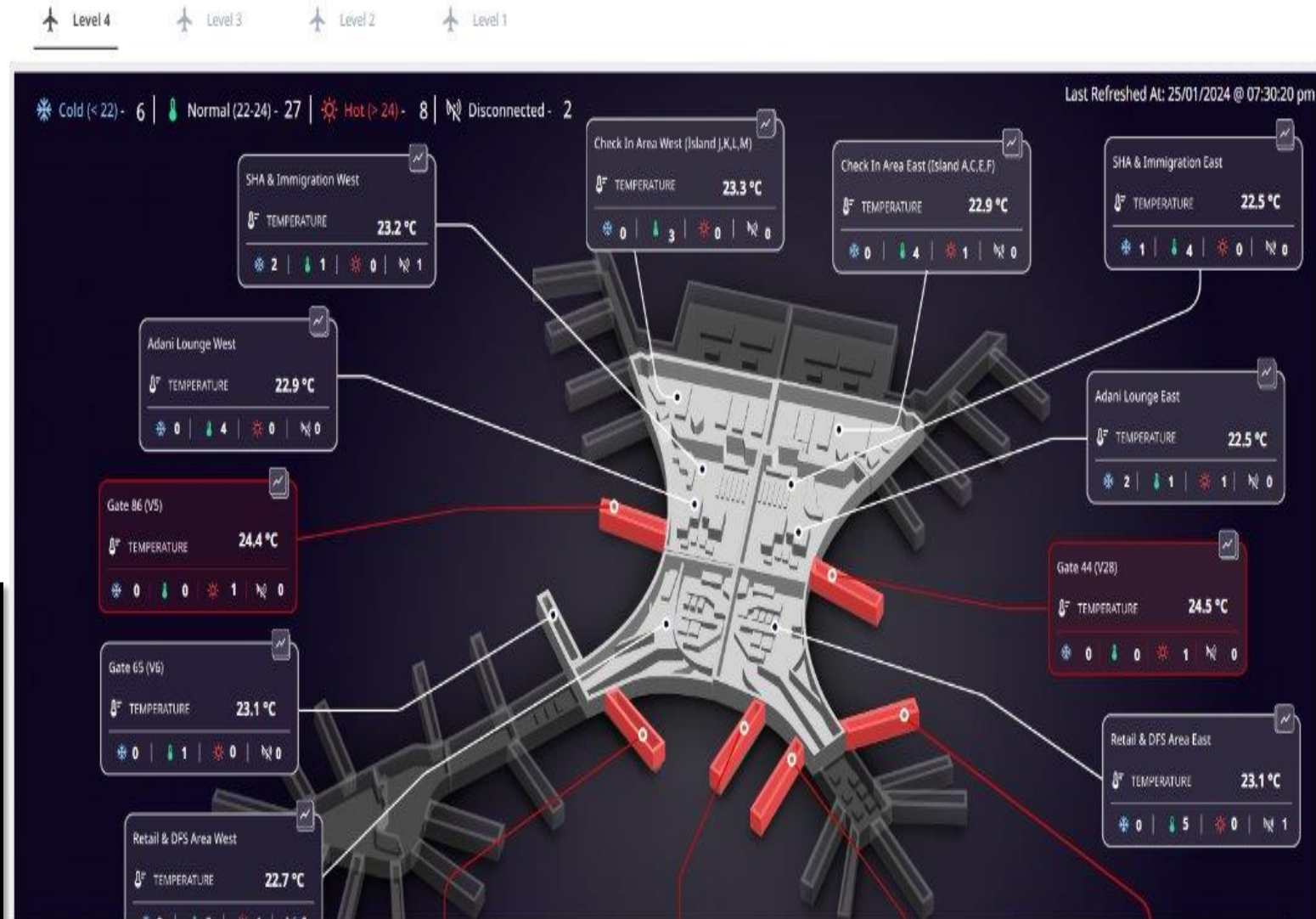
| Year | No of Energy Saving Projects Implemented | Investments (INR Millions) | Electrical saving (million Kwh) | Thermal savings (Million Kcal/ MTOE) | Impact on SEC-kwh/pax (Electrical, Thermal) |
|------------|--|----------------------------|---------------------------------|---------------------------------------|---|
| FY 2019-20 | 3 | 8.68 | 0.23 | - | 0.5% ↓ |
| FY 2020-21 | 1 | 2 | 0.10 | - | 0.9% ↓ |
| FY 2021-22 | 2 | 14 | 0.50 | - | 2.3% ↓ |
| FY 2022-23 | 3 | 23.5 | 0.70 | - | 1.7% ↓ |
| FY 2023-24 | 4 | 80 | 2.01 | - | 3.9% ↓ |

- ❑ Each year **dedicated Capex budget gets allocated towards Energy Conservation Projects.**
(In FY25 – allocated Budget is ~10 Cr)
- ❑ Apart from technology up gradation, special focus is also given to **operational optimization and digitalization to achieve energy excellence**
- ❑ **Energy Management cell** in place to looks after all Energy conservation projects, monitor energy consumption and analyze variances.
- ❑ **Energy Review meetings** with top management on regular basis.

IOT based temperature monitoring & control (Phase-2)

Project Brief:

- Installation of IOT based temperature sensors across terminal building.
- **Real-time temperature update.**
- All hot and cold pockets can be easily identified, and immediate actions can be taken.
- Provides improved scope for optimization.
- Estimated Energy Saving obtained: 0.1 million units



Replacement of belt driven fan with EC fan in AHUs[Phase 1]

Project Brief:

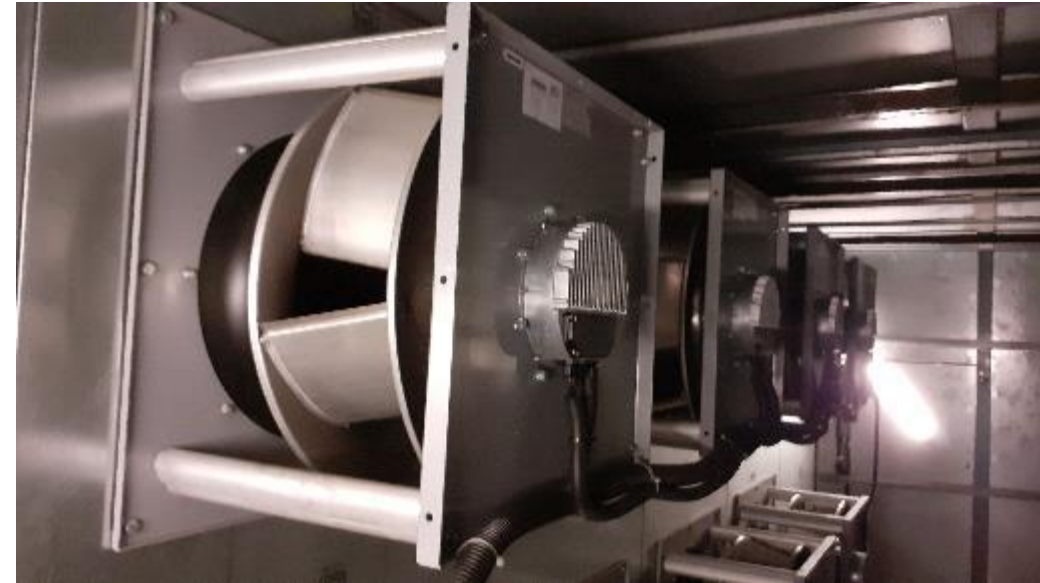
- Existing AHU fans have belt driven assembly. It has been proposed to replace the same with direct driven EC fan.
- Project Cost: 6 Cr (For phase-1)
- Pilot Project successfully completed earlier

Execution Plan:

- Project being executed in phase-wise manner.
 - 1st phase – 50 AHUs [completed in FY 23-24]
- EC fan used – Rossenburg

Benefits:

- ❖ Energy saving achieved: ~ 26%
- ❖ Annual Energy Saving – 1.8 million units
- ❖ Reduced Maintenance time.
- ❖ Lower Maintenance Cost
- ❖ Redundancy system
- ❖ Removed all VFDs



Conversion of TWY halogen lights to LEDs

Project Brief:

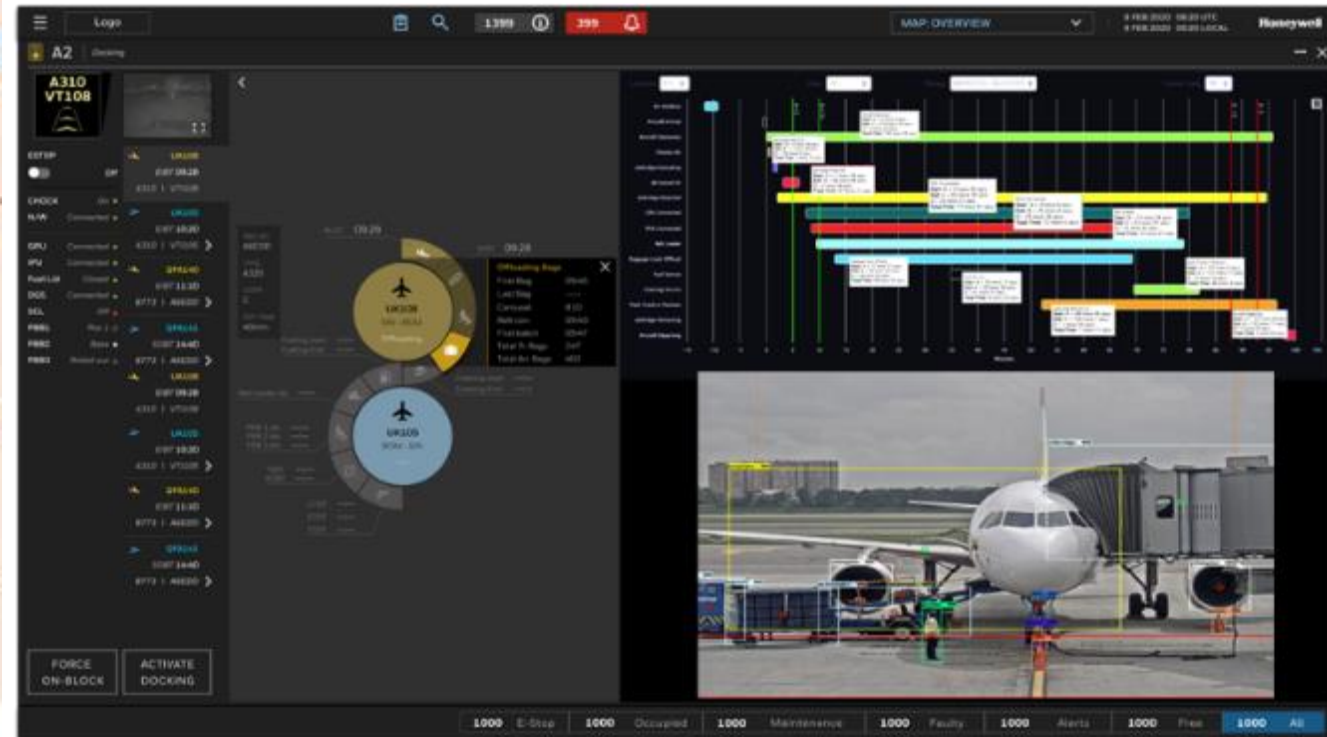
- Replaced existing Halogen taxiway light to LEDs at Taxiways
- Project being executed in phase wise manner.
- Total Project Cost: 2 Cr
- No. of Lamps replaced: 270
- Reduction in Wattage per lamp: 32W
- Annual Energy Saving achieved – 0.12 million Kwh



Innovative Project – Smart Apron | India's first AI/ML powered airside operations



Advanced Visual Docking Guidance System[AVDGS]



Turnaround Manager

AI ENABLED TRACK ACTIVITY

From arrival to departure, the AI tracks activities around the aircraft and creates a log of events along with time-stamps.

REAL TIME ALERTS

A customer-defined list of events triggers real-time alerts for our teams to react and course-correct.

VIDEO DATABASE

A searchable database of high-definition video is created as events are logged.

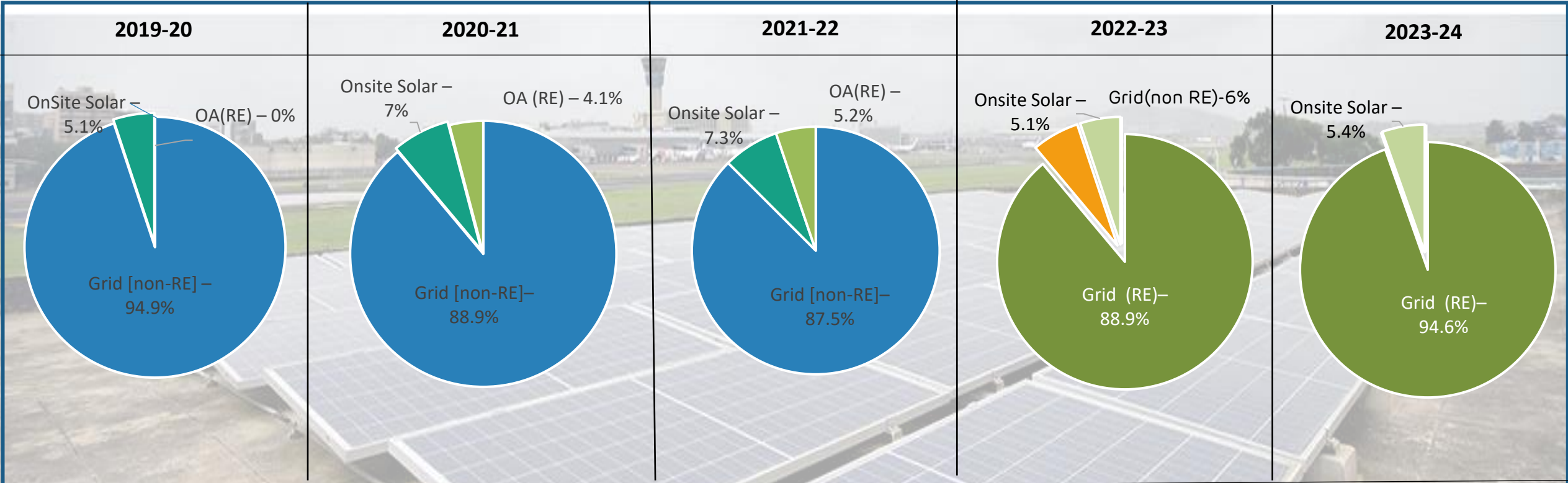
Operational Impact:

1. Real-time Situational Awareness
2. Single source of truth for all data across all stakeholders – Airlines/GHAs/AAI/Airport Operator
3. Additional Safety features
4. Advanced analytics for operational efficiency
5. Resource Optimization

Environmental Impact:

- 2 minute of faster turnaround will contribute to:
- **~3.16 kg** of Co2 emission reduction per flight.
 - **~ 5 lakhs kg of Co2** emission saving per year
 - **~ 10 lakh units** of Energy Saving per year

Utilization of Renewable Energy Sources



% Renewable Energy (RE) Utilization

❖ In spite of severe space constraint, MIAL has continuously strived to increase its RE share via be it onsite/Open Access/RE purchase

MIAL is the 1st Airport in India to install VAWT – A hybrid RE technology to harness both solar & wind energy. 24*7 RE generation solution. Current Installed capacity of VAWT – 120kwp

Utilization of Renewable Energy Sources

2019-20
Installed Capacity-
4.6MW

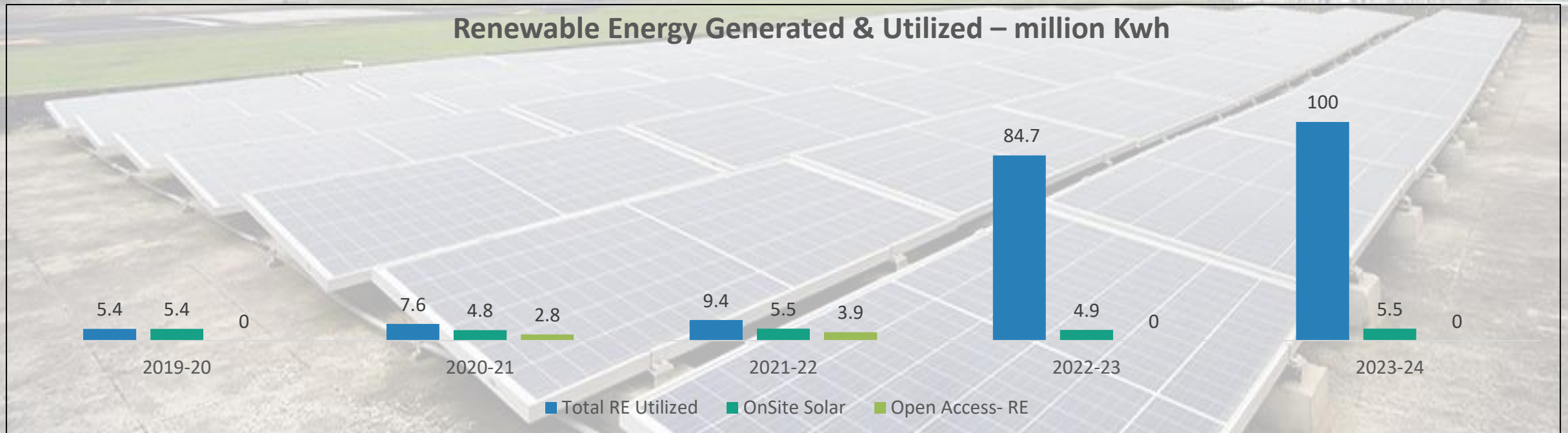
2020-21
Installed Capacity-
4.65MW

2021-22
Installed Capacity-
4.66MW

2022-23
Installed Capacity-
4.70MW

2023-24
Installed Capacity-
4.80MW

Renewable Energy Generated & Utilized – million Kwh



MIAL is incurring additional cost of Rs. 0.80/unit to procure 100% green power.

MIAL runs on 100% Green Power.

Offsite Solar Generation Project ~ 20 GW

Project Plan:

Generate RE-Hybrid (Solar + Wind) in different locations across India such that 100% load requirement is met for all airports

Bidder Response:

Based on RFP response from market received and location finalized

Future Plan:

Once desired commissioning limit is reached airports will start getting Green Power via OA

Proposed OA Date for
MIAL
June'25

RFP Floated & Response received:

Entire project plan was drafted and RFP floated in market for response

[Initial Plan – 100MW, later updated to 20GW]

Work in Progress:

Site – Khavda, Gujarat
Completed – 4 GW
[3.5 Solar+0.5 Wind]
Target – 4 GW/per year

Target of MIAL:

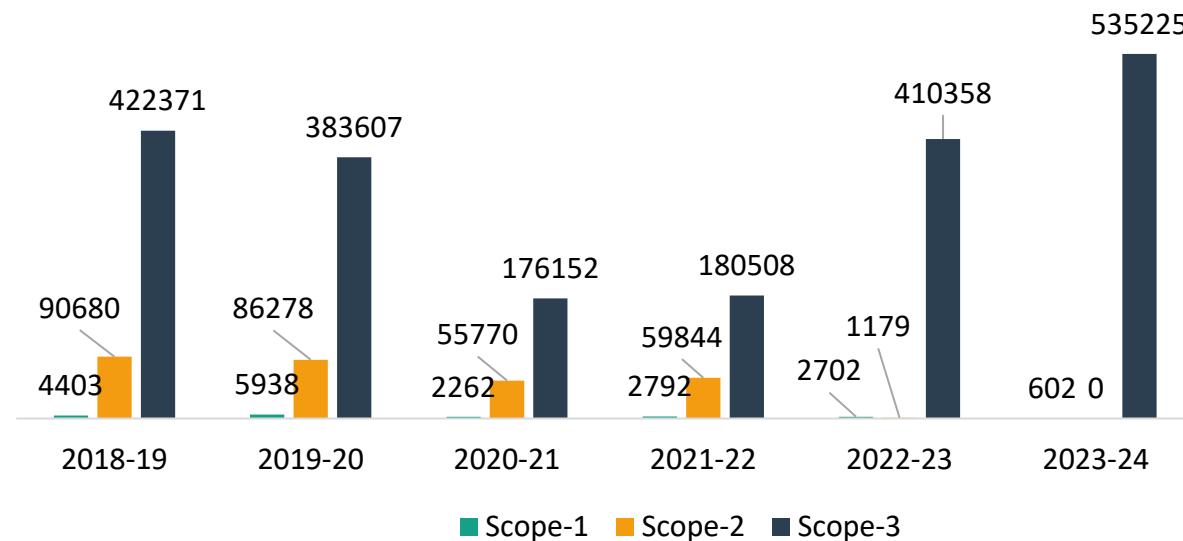
- Once system in place: MIAL will start to take OA for Green Power.
- It will gradually ramp up to 100%

Group has planned to **GENERATE & UTILISE 100% GREEN power** for all its airport across India

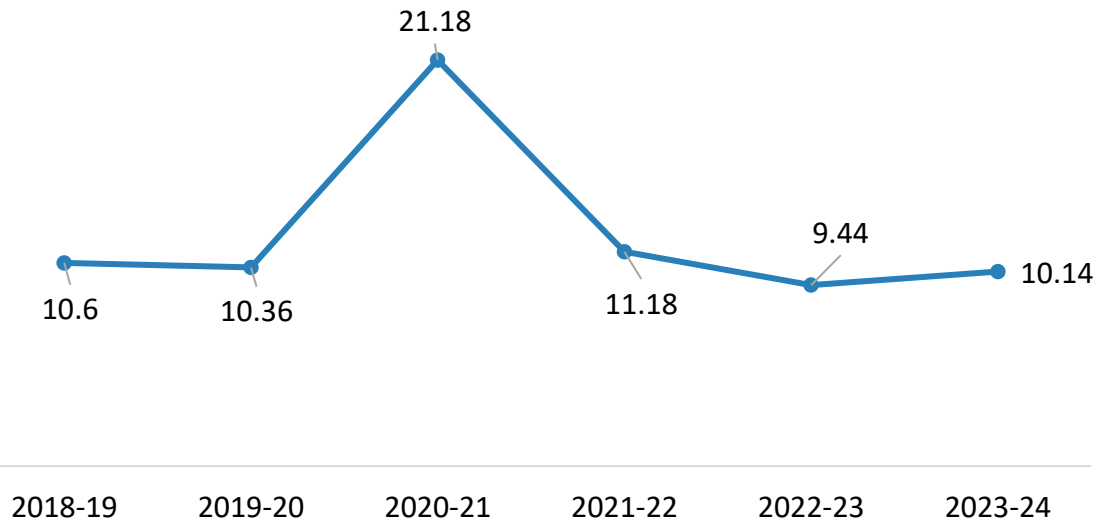
Sources of Green House Gas Emission

| Type | Activities | Remarks |
|---------|--|--|
| Scope-1 | Fossil fuel, Fire Extinguishers, Refrigerant | Directly under control |
| Scope-2 | Electricity | Directly under control |
| Scope-3 | Stakeholder electricity, stakeholder fuel, LTO-Arrival/departure, passenger/staff/business travel, Offsite emissions | 3 rd party dependent – Can only suggest and influence |

GHG Emission- tCo2



Specific GHG Emission (kgCo2/Pax)



- MIAL has successfully achieved **zero Scope 2 emissions**.
- Increase in Specific GHG Emission is due to increase in Scope-3 emission → Result of greater no of flights handled.

Measures taken to reduce GHG emission



Green Power

**100% green power–
Scope 2 - emission reduction by 85k tCo2**

Self generate 100% renewable power for
Mumbai Airport by 2025



Transition to Lower
GWP refrigerant

All equipment with high GWP refrigerant being
replaced with low GWP refrigerant –
Scope-1 emission reduction by >40%



EV
Vehicles

Conversion of conventional fuels vehicles to EVs – in
phase-wise manner
In FY2022-23 → **45 vehicles replaced**
In FY2023-24 → **6 vehicles replaced**



Non-CO2 based
fire extinguisher

All CO2 based fire extinguisher have been converted
to non-CO2 based fire extinguishers



EV Charging
Station

- Move to encourage EV vehicles across CSMIA -
- 7 EV charging stations installed [2022-23]
 - 40 EV charging stations installed [2023-24]




Indoor Air Quality

MIAL strives to maintain healthy indoor air Quality.

- 3rd party air quality check is done at regular intervals.
- Co2 sensors installed in return ducts of all AHUs & automatic fresh air intake when value crosses set parameters.
- Portable Co2 meters used to check Co2 level in all offices & crowd areas multiple times in a day
- In FY2022-23, UV lamps being installed in all AHUs to upgrade the quality of indoor air.



Rich landscape of Greenery is maintained inside terminal which further upgrades the air quality & gives a feel-good attitude to all stakeholder



Testing Laboratory is certified by ISO 9001:2015 & ISO 45001:2018
 Recognized by MoEFCC as "Environmental Laboratory" valid up to 24.04.2024
 Laboratory: P-1, MIDC Mohopada, P.O. Rasayani, Dist. Raigad Pin 410222
 Tel: 02192 252008, CIN: U74999MH2001PTC132091 UDYAM-MH-19-0029787

Test Report
(Indoor Air Quality)

Ref. No: AESPL/LAB/WP-24/02/57-72 Issue Date: 06/03/2024

Indoor Environment Quality Standard, ISHRAE 10001:2016

| Sr. No. | Parameter with unit | IGBC Threshold values |
|---------|---|--|
| | | Class B (Acceptable) |
| 1. | SO ₂ , µg/m ³ | < 80 µg/m ³ |
| 2. | NO ₂ , µg/m ³ | < 80 µg/m ³ |
| 3. | CO ₂ , ppm | Max. 440 ppm above ambient |
| 4. | CO, ppm | < 6 ppm |
| 5. | O ₃ , µg/m ³ | < 75 µg/m ³ |
| 6. | TVOCs, µg/m ³ | < 650 µg/m ³ |
| 7. | PM ₁₀ , µg/m ³ | < 75 µg/m ³ |
| 8. | PM _{2.5} , µg/m ³ | < 20 µg/m ³ |
| 9. | Temperature, °C | 24.5 ± 2.5 – Limits as per ISHRAE 10001:2016 |
| 10. | Relative Humidity, % | 30% - 70% – Limits as per ISHRAE 10001:2016 |
| 11. | Air Velocity, m/s | < 0.2 m/s - Limits as per ISHRAE 10001:2016 |
| 12. | Total Microbial Count, cfu/m ³ | 150 cfu/m ³ |

Conformity Statement: The monitoring undertaken indicates that Indoor Air Quality Values for monitored parameters are within the levels stipulated under Indoor Environment Quality Standard, ISHRAE 10001:2016 for Class B.

Sample Air Quality report – Inspection by 3rd party

Waste Management



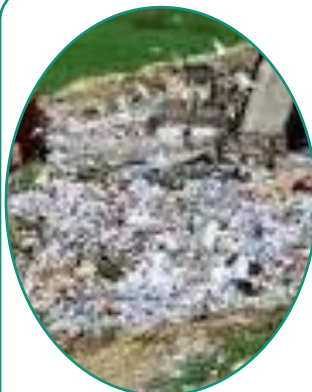
Mumbai Airport is **single use plastic free airport**



Proper **Waste Management SOP** in place – being strictly followed for managing wastes.



Inhouse **Organic Waste Convertor (OWC)** of 1.5 MT/day - to make organic compost



Target- Zero Landfill waste by channelizing all waste for reuse & recycle.



Replaced - conventional chemicals by Super Concentrated green chemical (93% chemical volume reduced)
Reduced → plastic waste @78% p.a. & Cardboard @ 72% p.a.

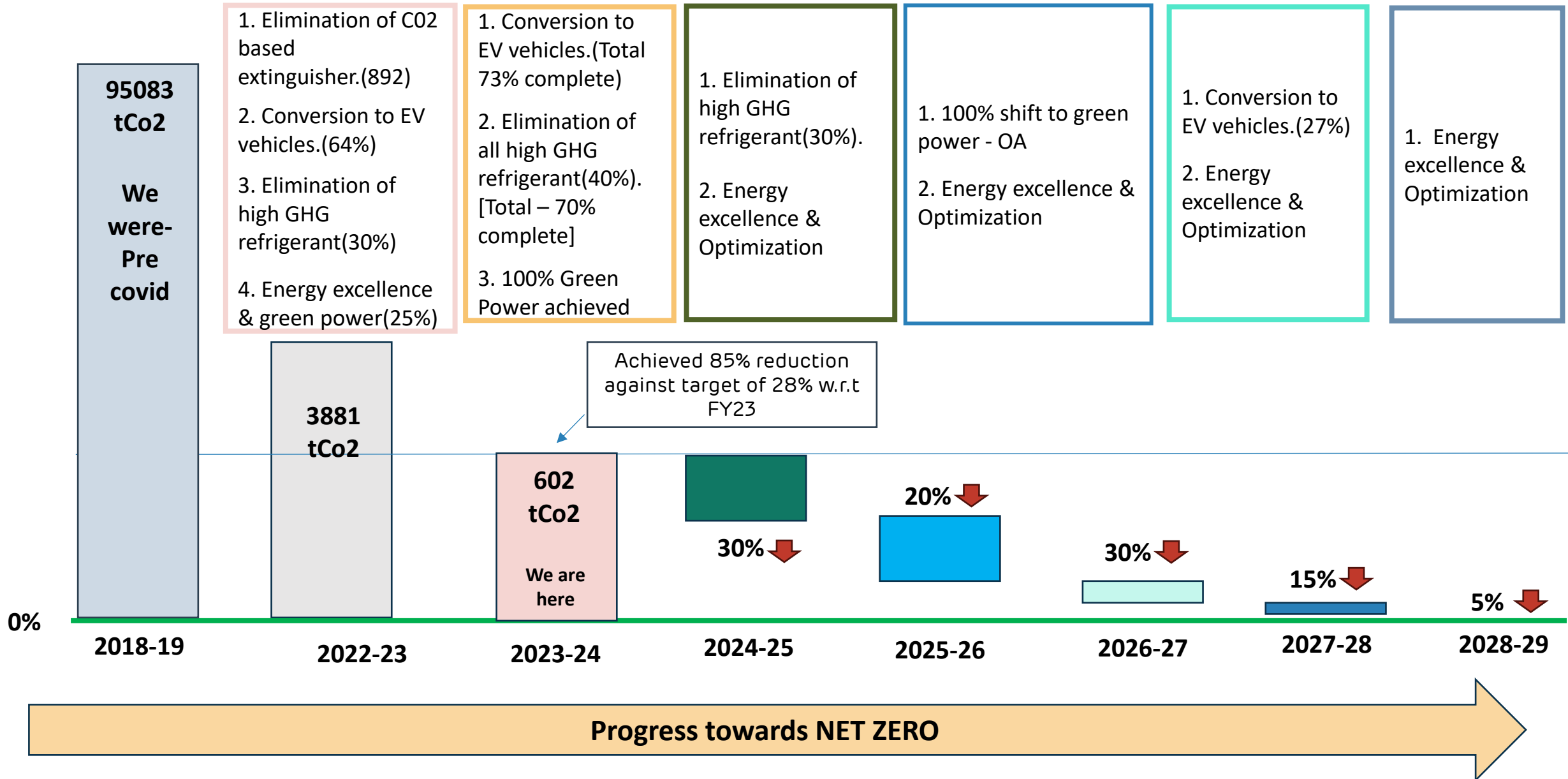


Commissioned dedicated Common Hazardous Waste Storage Facility- 2021
for Hazardous Waste Management for all CSMIA stakeholders.



Sewage treatment plants (STPs) a cumulative capacity of 15 MLD is installed for waste water treatment.
Target - ZLD by 2025

NET ZERO Road Map



- 1. Elimination of CO2 based extinguisher.(892)
- 2. Conversion to EV vehicles.(64%)
- 3. Elimination of high GHG refrigerant(30%)
- 4. Energy excellence & green power(25%)

- 1. Conversion to EV vehicles.(Total 73% complete)
- 2. Elimination of all high GHG refrigerant(40%). [Total – 70% complete]
- 3. 100% Green Power achieved

- 1. Elimination of high GHG refrigerant(30%).
- 2. Energy excellence & Optimization

- 1. 100% shift to green power - OA
- 2. Energy excellence & Optimization

- 1. Conversion to EV vehicles.(27%)
- 2. Energy excellence & Optimization

- 1. Energy excellence & Optimization

Monitoring System – BMS & SCADA

SCADA Generated - Daily Monitoring Report

DAY WISE DEVIATION DETAILS

| DATE | BHS | PBB | HVAC | MAIN FIRE STATION | LIGHTING | POWER DISTRIBUTION | MACHINE ROOM PANEL | PUMP PANEL | RETAIL & TENANT PANELS | UPS | UTILITY AUX.CONSUMPTION | MLCP | STP | Chiller | TRITURATOR BUILDING | CCR1 | High Mast Light |
|------------|--------|--------|-------|-------------------|----------|--------------------|--------------------|------------|------------------------|-------|-------------------------|--------|---------|---------|---------------------|-------|-----------------|
| 17-Aug-24 | 10842 | 4763 | 45240 | 893 | 31861 | 17777 | 3525 | 1082 | 35992 | 19580 | 1086 | 33900 | 2840 | 119056 | 29 | 3300 | 157 |
| 18-Aug-24 | 10764 | 4632 | 45782 | 808 | 32039 | 17464 | 3613 | 1072 | 36117 | 19583 | 1092 | 33500 | 2490 | 124722 | 31 | 3600 | 161 |
| Variance | -78 | -131 | 542 | -85 | 178 | -314 | 89 | -10 | 126 | 3 | 5 | -400 | -350 | 5666 | 2 | 300 | 4 |
| Variance % | -0.72% | -2.75% | 1.20% | -9.52% | 0.56% | -1.76% | 2.52% | -0.92% | 0.35% | 0.02% | 0.48% | -1.18% | -12.32% | 4.76% | 6.90% | 9.09% | 2.23% |

| Services | Cumulative Energy Consumption (KWH) Till Date (AUG-2024) | Consumption in % |
|-----------------------------|--|------------------|
| BHS | 195563 | 3.09% |
| BRIDGE JUNCTION BOARD(PBB) | 75049 | 1.19% |
| HVAC-LS | 801351 | 12.67% |
| MAIN FIRE STATION | 15099 | 0.24% |
| LIGHTING DISTRIBUTION PANEL | 588838 | 9.31% |
| POWER DISTRIBUTION PANEL | 328127 | 5.19% |
| MACHINE ROOM PANELS(VHT) | 64024 | 1.01% |
| PUMP PANELS | 20291 | 0.32% |
| RETAIL & TENANT PANELS | 647579 | 10.24% |
| UPS PANELS | 352032 | 5.56% |
| MLCP-HT PANEL | 600000 | 9.48% |
| STP | 48790 | 0.77% |



- ✓ **SCADA & BMS for 24*7 real time** monitoring, Operation and Control.
- ✓ Daily section wise Consumption reports
- ✓ **Regular review meetings, being chaired by HOD**, on consumption and progress tracking.
- ✓ **Energy a key topic of MRM** being conducted by top management – Chief Airport Officer

Section-wise Consumption Report

Refurbished BMS room with advanced technology



IGBC **Platinum** Certified



EnMS **50001:2018** certified company

How CII helps in our Journey of Energy & Sustainability Management....

- ❖ Providing a National platform to showcase efforts & getting recognized for the same indeed acts as huge motivation to act & perform better.
- ❖ Opportunity to see other's performance & where we stand → Forum helps in getting additional ideas from others.
- ❖ Multiple companies showcase their energy efficient products → Exposure to new available products in the market.

Print & Social Media Coverage



ENVIRONMENT
The Logical Indian Crew

Mumbai Airport Switches To 100% Green Energy, Aims 'Net Zero Carbon Emission' By 2029

Writer: Apoorva Chakraborty
Maharashtra, 18 Oct 2022 3:15 PM | Updated 18 Oct 2022 3:15 PM
Editor: Shiva Chaudhary | Creatives: Shiva Chaudhary

The Chhatrapati Shivaji Maharaj International Airport in Mumbai has been the first in India to launch hybrid technology that solely runs on green energy since April 2022. It has wholly switched to green sources such as hydro and wind energy.



With a commitment towards achieving operational Net Zero Carbon Emission, CSMIA is delighted to partner with Uber for the launch of its flagship EV product - #UberGreen, with Chhatrapati Shivaji Maharaj International Airport (CSMIA) the first location in Mumbai to offer this service.

THE TIMES OF INDIA

Mumbai airport green initiatives feted by ACI

TNN | Dec 22, 2022, 06:49 PM IST

MUMBAI: The Mumbai airport has joined the group of 31 airports in the world that have achieved Airport Council International (ACI)'s "Level 4+" of Airport Carbon Accreditation (ACA) program, said Mumbai International Airport Ltd (MIAL) on Thursday.

Reaching Level 4+ 'Transition' means that the airport has aligned its carbon dioxide emissions management with global climate goals and compensated for the remaining residual emissions with high quality carbon credits, said MIAL.

"Only 2 airports in the whole Asia-Pacific region have achieved this," said MIAL adding Mumbai is the third airport in the said region to receive this certification.

MIAL said the Mumbai airport has been reducing its carbon emissions under its Environment Social and Governance (ESG) policy commitments.

The airport has prepared a roadmap to achieve net zero carbon emission operations by 2029. "The airport has prepared comprehensive plan and invested on emission and energy consumption reduction projects. Core function climate change reduction objectives include: replacement of CC through installatic channelizing wast

airline and airport needs, onsite rene wind turbine and Then other steps s replacement of CC through installatic channelizing wast

Mumbai International airport achieves highest rating in carbon sustainability

By Yogesh Naik

Dec 23, 2022 12:57 AM IST



The certification lauds CSMIA's efforts in building a climate change strategy which provides a comprehensive framework for managing its carbon footprint, as per a statement by the airport.



CSMIA has prepared a roadmap to achieve Green House Gas reduction (Carbon Management) CSMIA has prepared a roadmap to achieve operations Net Zero Carbon Emission by 2029. (PTI)

PASSENGER TRAFFIC GROWS 291% DOMESTIC 87% AT MUMBAI AIRPORT

handled 44 million luding 32.7 million ngers, between April 2023. While ssenger traffic lwith of 291% in 122-23 over financial mestic stood at 87%

RECOVERY

ECO2 of



| TOP DESTINATIONS | | HIGHEST SINGLE-DAY NUMBERS | |
|------------------|-----------------------------|--|-------------------------------------|
| International | Dubai, Abu Dhabi and London | FLIGHT VOLUME | PASSENGER VOLUME |
| Domestic | Delhi, Bengaluru, and Goa | Feb 11, 2023 974 arrivals and departures | Dec 10, 2022 1.5 lakh passengers* |

*Highest post-pandemic and overall third highest single-day passenger movement recorded for Mumbai airport

Climate Change Strategy: Mumbai Airport Lauded For Managing Its Carbon Footprint

With 'Measure, Manage, Reduce and Communicate' as its core objectives, it exemplifies CSMIA's dedication and expertise in effectively managing its operations to contribute to a better tomorrow.

Mumbai Airport tops ASQ rankings, next goal net zero carbon emissions by 2029: Adani

Mumbai Airport has achieved the distinction of being the best in the Asia Pacific region for services, as per the Airport Service Quality (ASQ) rankings, announced Gautam Adani, Chairman of AdGroup which runs Mumbai's Chhatrapati Shivaji Maharaj International Airport (CSMIA).



Awards & Accolades



CII Green CO "GOLD" rated company



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Thank You

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