

Internal

gody interio
talk green.
walk green.

A JOURNEY TOWARDS DECARBONIZATION OF SUPPLY CHAIN

- TEAM GODREJ INTERIO



We Are Proud To Own And Care For The Largest Privately Managed Belt Of Mangroves In Mumbai, Since 1943. Estimates Suggest That Our Mangroves Make The Air In Vikhroli 30 To 40% Better Than The Rest Of The City.

1

Godrej, 127 years young

Our story began as a part of India's
Swadeshi movement,
the original 'Make in India' movement.



2

GODREJ'S BOX LOCKS.



2 $\frac{1}{2}$ 3 3 $\frac{1}{2}$ 4 Inches.

8 Levers

#8-0	8-8	9-0
------	-----	-----

1897

Key to success

Ardeshir Godrej, after a few failed ventures, sets up a lock company. For him, the key to success turns out to be locks

3

58 THE TIMES OF INDIA

"Wooden Cupboards will have a poor chance against them".



GODREJ'S PATENT SAFE CABINETS

FOR HOME AND OFFICE USE.

1923

Furniture

After locks and soap, we foray into furniture with almirahs (steel cupboards). Over the years, it becomes a tradition of sorts to gift a Godrej almirah to newly weds.

HAVERO TRADING CO., LTD.
(Incorporated in Holland.)
ANILINE DEPARTMENT.
CALCUTTA, 25th August, 1926.
No. 1380.

MESSRS. GODREJ & BOYCE MFG. CO., CALCUTTA.

Dear Sirs,
In reply to your inquiry we have much pleasure in informing you that your Patent Steel Cabinets have suited our purposes admirably. Their strong construction, good workmanship and attractive design and finish are all very appreciable features, and as their price is so favourable, we think you are going to have a good time, for wooden cupboards will have a poor chance against them.

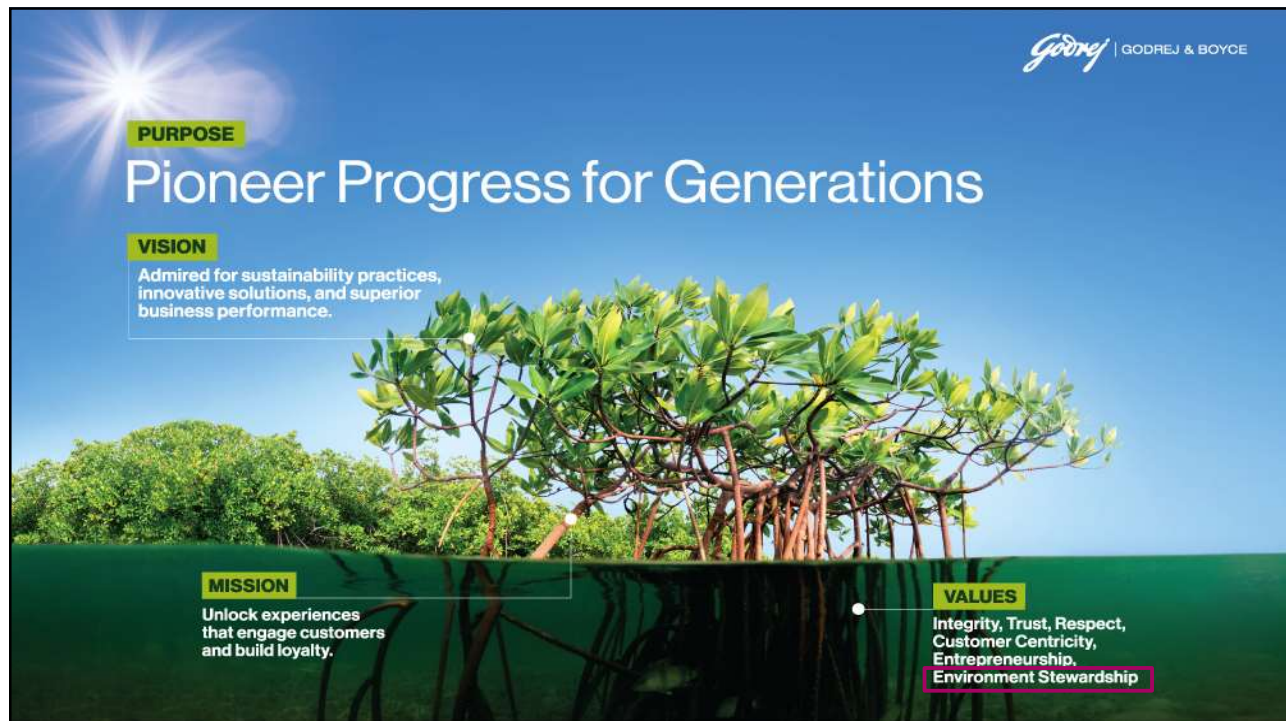
Yours faithfully,
HAVERO TRADING CO., LTD., Calcutta Branch.
Illustrated Price List on application.
PRICES RECENTLY REDUCED.

GODREJ & BOYCE MFG. Co.
Makers of:—Fire and Burglar-resisting Safes; Strong-Rooms and Strong-Room Doors; Steel Shelving for Mills, Banks and Offices; Locks, etc.
Head Office and Works:—Lalbaug, Parel, BOMBAY.
Calcutta Branch:—"Commercial House", 15, Clive Street.
'Phono No. Calcutta 1407.

4



5



6

Internal

play interior
talk green.
walk green.

G&B'S APPROACH TO SUSTAINABILITY - THE CORE OF ITS EXISTENCE

Godrej Good & Green

Beyond business: Building a more Inclusive and Greener India



Good & Green Products



Greener India



Ensuring Employability



Community Development

7



8

Internal

interio
talk green.
walk green.

GODREJ ENTERPRISES GROUP HAS

Diverse presence in **15 BUs**

Presence in over 80 countries with **₹189+ Bn** revenue annually

Over **14,000+** employees



9

GODREJ & BOYCE – BUSINESS UNITS

Godrej Security Solutions



Godrej Locking Solutions & Systems



Godrej Interio



Godrej Appliances



Godrej Process Equipment



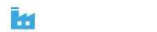
Godrej Material Handling



Godrej Aerospace



Godrej Koerber



Godrej Electricals & Electronics



Godrej Lawkim Motors



Godrej Vending



Godrej Precision Engineering



Godrej Tooling



Godrej Construction



Godrej Storage Solutions



BUSINESS TO BUSINESS



BUSINESS TO CUSTOMER




BUSINESS TO GOVERNMENT


10

Internal


godrej **interio**
talk green.
walk green.




India's premium furniture brand in both home and institutional segment




Known for strong commitment to sustainability and centers of excellence in design, manufacturing and retail



Design and manufacture furniture for office spaces, homes, educational institutes, healthcare facilities, laboratories etc. Also offer Audio visual & 360-degree turnkey interior solution



1st company in India to achieve Greenguard and BIFMA level certificate for its products



Presence in India with Branches in all key geographies. Currently present in over 650 cities with 300+ exclusive showrooms and 1200+ dealers

11

Internal

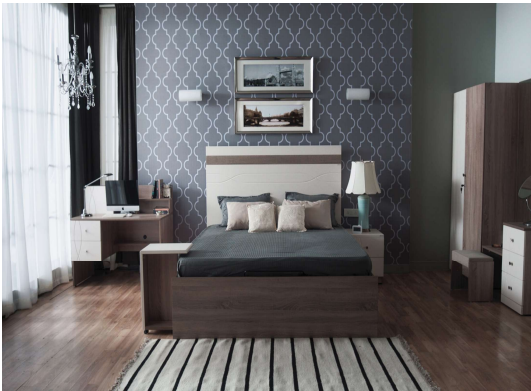
godrej **interio**
talk green.
walk green.

GODREJ INTERIO IS NOT ONLY INDIA'S LARGEST MANUFACTURE OF OFFICE AND HOME FURNITURE...



12

GODREJ INTERIO STAND 100% COMMITTED TO ROLE AS AN ENVIRONMENTALLY RESPONSIBLE CORPORATE CITIZEN.



Internal

play interio
**talk green.
walk green.**

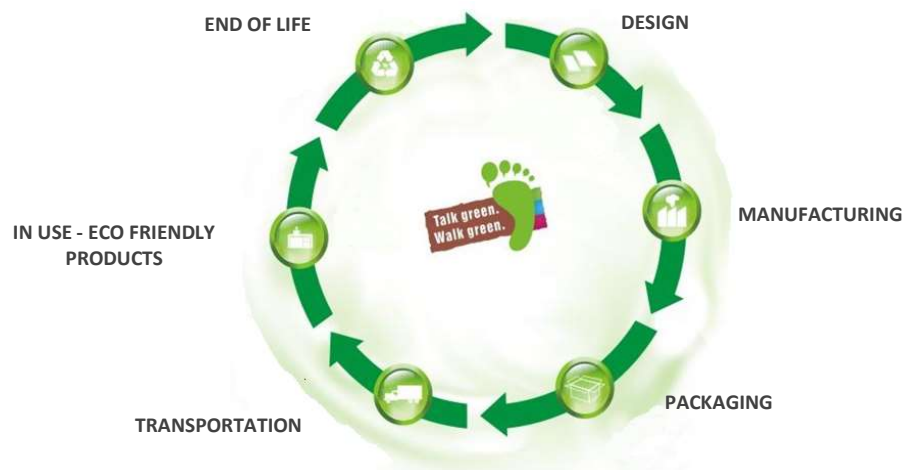


13

ALL INCLUSIVE SUSTAINABILITY ACROSS THE VALUE CHAIN
ENFORCING GREEN AT EVERY STEP...
ENSURING GREEN AT EVERY CONCLUSION...

Internal

play interio
**talk green.
walk green.**

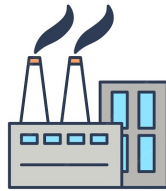
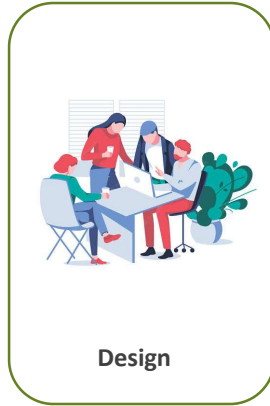


14

Internal

gery interio
talk green.
walk green.

EVERY BUSINESS ASPECT IS EVALUATED AND IMPROVED TO KEEP CUSTOMERS AND PLANET SAFE



15

Internal

gery interio
talk green.
walk green.

GREEN DESIGN

DESIGN FOR ENVIRONMENT POLICY

COMMITMENT FOR ENVIRONMENT CONSCIOUS DESIGN AND REDUCING TOXICITY



Components of DFE Policy:

- Increase use of recycled & renewable material
- Evaluation of raw material to improve recyclability and biodegradability
- Evaluation of water and energy pattern
- Reduce use of chemicals of concerns
- Design consideration to reduce environmental impact at end of life

16

Internal

interio
talk green.
walk green.

GREEN DESIGN

GREEN ASSURANCE CARD

OPTIMIZER PLUS

Optimizer are highly durable shelving systems on wheels. Tons of important documents can be organized and stored in a single row of the Optimizer. Each row moves along rails using special mechanisms. When someone needs to access the storage, just few of the rows are to be moved using the mechanism, to access and retrieve the item. This principle saves space and multiple row of storage need just one common approach area equal to a single aisle width.

94%
Recyclable Content

CERTIFICATIONS

CONSTRUCTION | Optimizer Plus is manufactured by Complete knock down construction with panels fitted using Knock down hardware fittings.

DESIGNED FOR DURABILITY | Designed for longer life & its knocked down construction provides extended life by easy part replacement and serviceability.

OVERALL MATERIAL CONTENT | Overall material content excluding the weight of packaging material is as shown:

interio
Doc No. INT / EPD / STD/003

RECYCLED MATERIAL	We use and promote recycled material in the products as well as in its packaging.
PRE-CONSUMER RECYCLED CONTENT	32%
POST-CONSUMER RECYCLED CONTENT	0%
TOTAL RECYCLED CONTENT	32%
ENVIRONMENT FRIENDLY MATERIALS	Use of E1 grade particle board, Use of low VOC emitting glue, Powder used in powder coating process is lead free and low VOC emitting.
ENVIRONMENT FRIENDLY PROCESSES	Powder coating process is phosphate free process. Thus making powder coating process an environmentally process.
RAPIDLY RENEWABLE MATERIALS	NA
PRODUCT CERTIFICATIONS	Product is certified for the following certifications: 1) Greenguard - Product conforms to the ANSI/BIFMA Furniture Emissions Standard (NF-127, 3-2011 R2010) for low VOC emissions. 2) Indoor Advantage Gold- Product conforms to the ANSI/BIFMA Furniture Emissions Standard (NF-127, 3-2011 R2021) and ANSI/BIFMA e-3-2010 (revis 7 & 1, 7 & 2, 7 & 3). Also, conforms to the CARB/NAF Standard Method (CA-01300) v1.2-2017 for the open-plan and school classroom parameters. 3) GREEN+ - Product is listed in the GREEN+ product catalogue. 4) GreenPro - Product meets the required standard of CH-GreenPro certification.
EASE OF ASSEMBLY	Knocked down construction of the product is easy to assemble with minimum quantity of hardware & with the use of standard tools.
PLANT CERTIFICATIONS	All Godrej Interio manufacturing plants are ISO 14001:2015 certified. Shirodal, Vikroli, Hardwar, Bhagwanpur and Chennai plants are ISO 50001 certified. Shirodal plant and Vikroli plants are also ISO 1 (Zero Waste to Landfill) Verified. Shirodal Plant is GreenPro Platinum Rated Certified.
END OF LIFE	The product is designed to maximize its recyclability by selection of materials and easy dismantling by using simple hand tools. GI, through its Recycling Programme, "RECYCLE" supports safe and environmental friendly way to recycle the product.
MODEL NO./ CONFIGURATION	The scorecard shown above has been prepared for 'Optimizer Plus LAYOUT 03 (150 x 210 x 110)'

interio
Doc No. INT / EPD / STD/003

- **RECYCLABLE CONTENT – 94%**
- **Third Party validated**

17

Internal

interio
talk green.
walk green.

INITIATIVES TAKEN BASED ON DFE

Material optimization

- Material optimization at design level by using maximum size of the raw material
- Coil rationalization for the different sizes products
- Use of internal scrap for C class components

Modular design

- Standardization of Hardware across all the products
- Using common parts in different products (e.g. stiffeners)
- Products in two different colors (e.g. Doors and body of different color)

Hazardous material substitutes

- Using lead free paints for all the products and all the shades
- Use of hot melt glue
- Conscious efforts to avoid use of chrome plating process.

18

Internal

Godrej interio
**talk green.
walk green.**

GREEN MATERIALS

GREEN PARTICLE BOARDS



USE OF E1 GRADE BOARDS FOR LOW VOC EMISSIONS

LOW VOC GLUE



USE OF HOT MELT / WATER BASED GLUES REDUCES VOC CONTENT EMISSION BY PRODUCTS

ECO FRIENDLY SURFACE COATING




USE OF POWDER COATING ELIMINATES VOC EMISSIONS

19

Internal

Godrej interio
**talk green.
walk green.**


GOOD & GREEN PRODUCTS



PRODUCT CERTIFICATION

500+

Products have external Green Products certification appropriate to the product line




LIFE CYCLE ANALYSIS


50+

Products have undergone comprehensive Life Cycle Assessment during design improving green quotient


Godrej Interio Products Conform to National & International sustainability standards




BIFMA level




GRIHA Listing



Greenguard

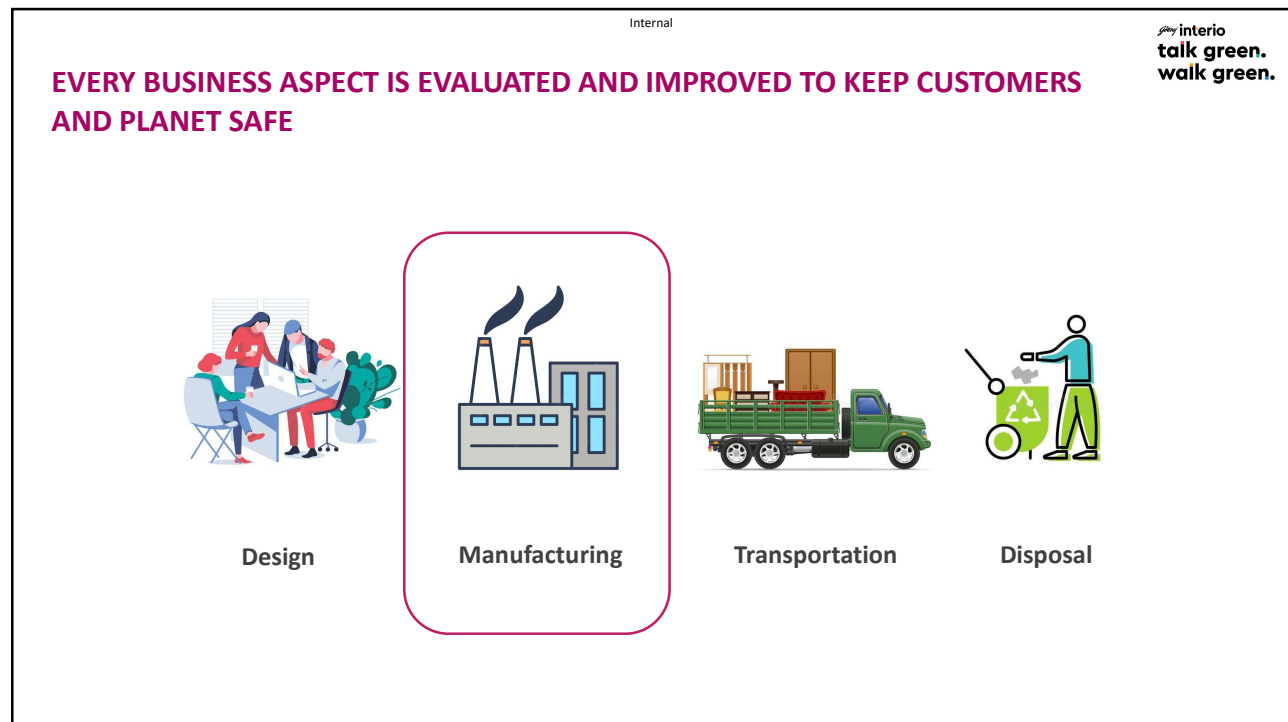


GreenPro



Indoor advantage

20



21



22

Internal

play interio
talk green.
ben.

GODREJ INTERIO HAS IMPLEMENTED SEVERAL PROJECTS IN ITS MANUFACTURING FACILITIES TO ...



Reduce Energy Consumption



Reduce Water Consumption



Reduce hazardous & non-hazardous waste



Increase Renewable Energy

23

Internal

play interio
talk green.
walk green.

MINIMIZING OUR ENVIRONMENTAL IMPACT



Doubled our energy productivity

Reducing energy use and emission intensity

Transition to low carbon technologies from Thermal Energy to Electricity

Green buildings developed for company's operations & tenants



Water positive

Reducing water use Intensity

Wastewater Recycling

Rainwater harvesting for own operations and in communities



Zero waste to landfill

Total waste minimization and recycling

Plastic use reduction and recycling

Increasing adoption of circularity



Renewable Energy

Installation of rooftop solar

Switch from HSD / LDO / FO to PNG / clean fuel

Solar Power Purchase Agreement (PPA)

Agri-waste briquette-based Producer Gas plants

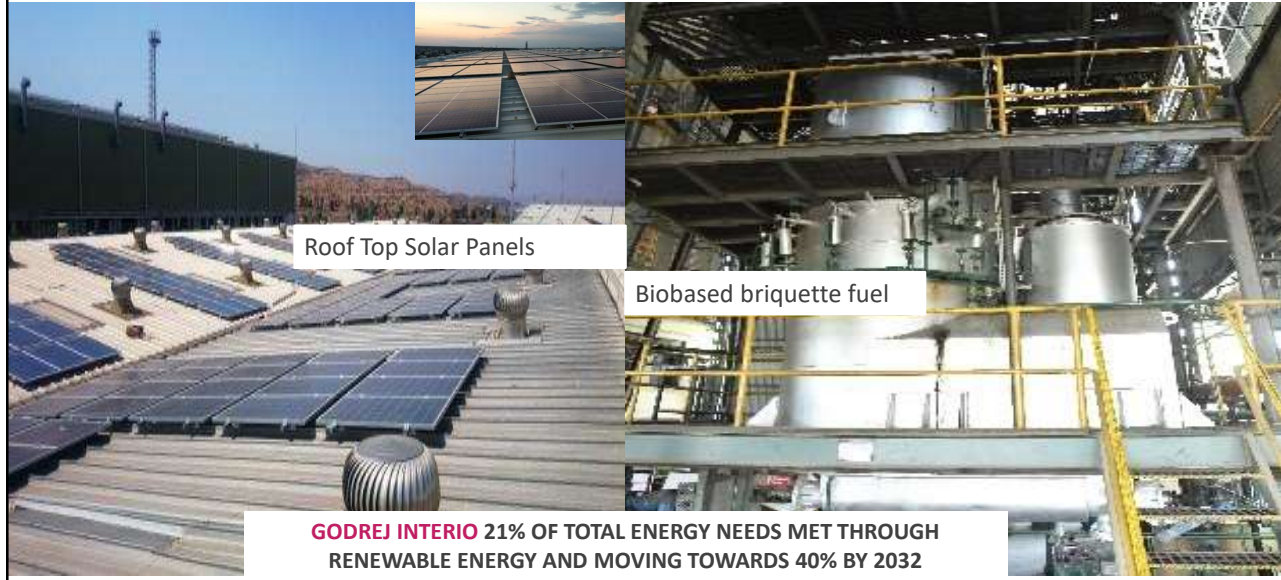
24

Internal

interio
talk green.
walk green.

GREEN MANUFACTURING

Godrej Interio Maximized its renewable energy share through ...



25

Internal

interio
talk green.
walk green.

AIR COMPRESSOR

15 - 20 % ENERGY SAVINGS IN COMPRESSED AIR SYSTEM

Two Stage Energy
efficient Air compressor



23% SEC improvement
(0.17KW/SCM to 0.145 KW/SCM)
Energy saving 16 MWh/ Annum)
with carbon offset of
138MtCo2e/Annum

Intelligent flow controller



Conserving Energy during No load

- VFD Integration with Realtime pressure sensing and speed modulation on High Pressure Air compressor
- 28 % Energy saving (52.2 MWh/Annum) and 23 % SEC improvement is achieved with a carbon offset of 47MtCo2e/Annum



26


Internal

Godrej interio. BOYCE
talk green.
walk green.

HVAC

10-15 % ENERGY SAVING IN AIR CONDITIONING SYSTEM


Central Air Conditioning System



IoT Enabled Chiller Auto-setpoint changeover

- Integration of Ambient temp sensor with BMS for auto set point variability
- Improved thermal comfort and energy efficiency

4-5% Energy saving than the conventional BMS control




EC Fan AHUs

Installed for Office or Machine area

- Uses permanent Magnet Motors
- Very high degree of efficiency
- Integrated controller to modulate air & water requirement


30 % Energy saving potential over centrifugal FFD control fans



Energy efficient Pumps & motor

- Improved design of impeller & casing
- Better efficiency at high RPM
- High Efficiency Motor
- Integrated control through DPT

20% Energy saving than a standard pump



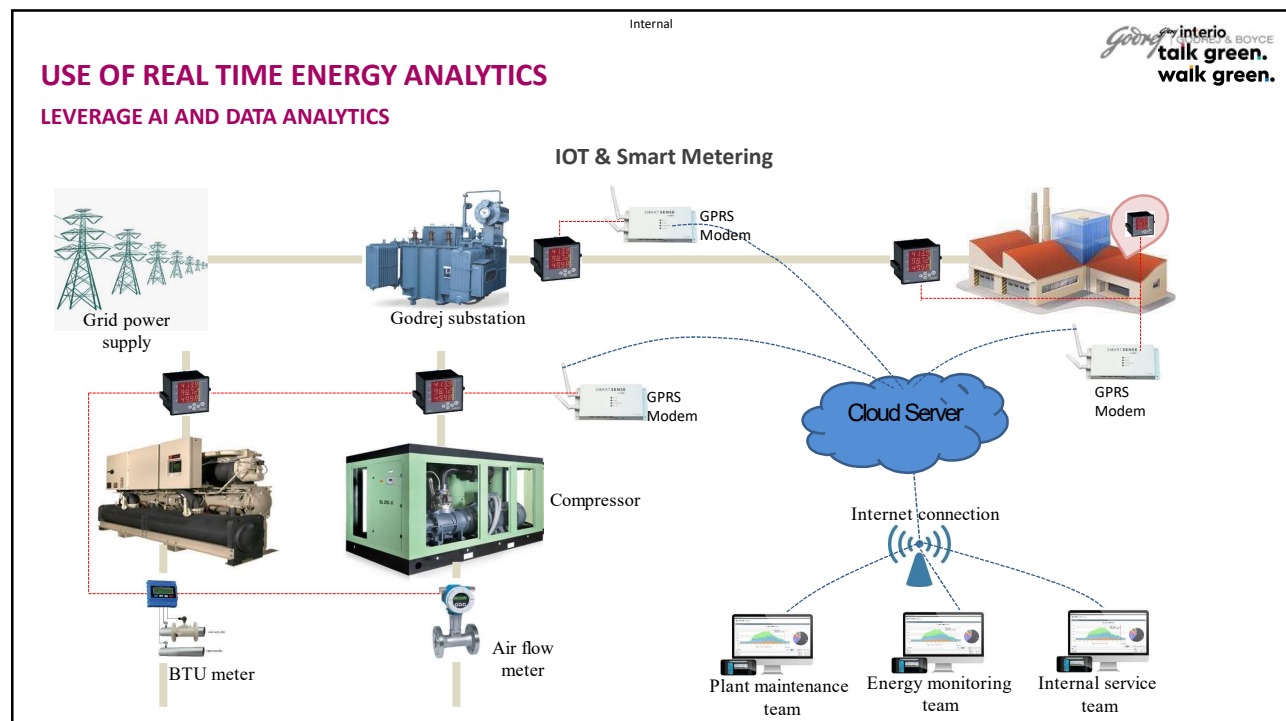
Water efficient Next Gen Cooling Tower for HVAC at Plant 09 PES

Square Type for max area coverage

Smart accessories like mechanically sealed fills, drift eliminators, 360 deg nozzles, side louvers

Reduction in water & Energy consumption by 8% & 4% resp.

27



28

Internal

Goody interior
talk green.
walk green.

PRODUCER GAS

PRODUCER GAS – AN ENVIRONMENT FRIENDLY FUEL



Bio Briquette



Application :

- Powder coating oven for heating

Fuel Source:

- Briquettes made of Biomass, Agri waste

Benefit:

- Economic :Energy Savings
- Environment :Green Fuel, Avoided Emission & Pollution
- Social :Employment generation due to local sourcing

29

Internal

Goody interior
talk green.
walk green.

GREEN CERTIFICATIONS - PLANT



SHIRWAL PLANT 1:
PLATINUM GREENCO CERTIFICATION (2016-19)
ISO 50001 :2018 EnMS
Zero Waste to Landfill Certified



Khalapur plant(K2,K3 & K4)
IGBC Green Factory Building
Provisionally Certified- Platinum Rating
ISO 50001:2018 EnMS



CHENNAI:
CHENNAI GREENCO SILVER
RATING (2018-2021)
ISO 50001 :2018 EnMS

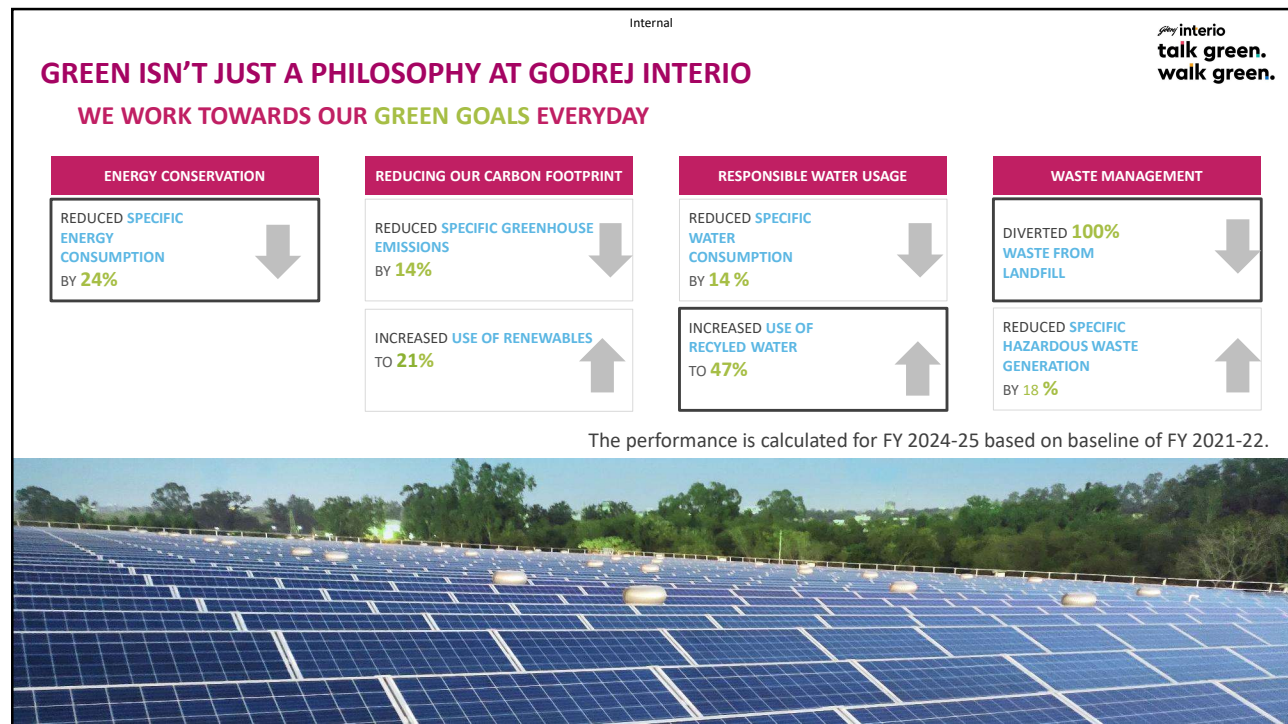


SHIRWAL 2 UNIT:
PLATINUM IGBC GREEN FACTORY RATING
ISO 50001 :2018 EnMS
Zero Waste to Landfill Certified

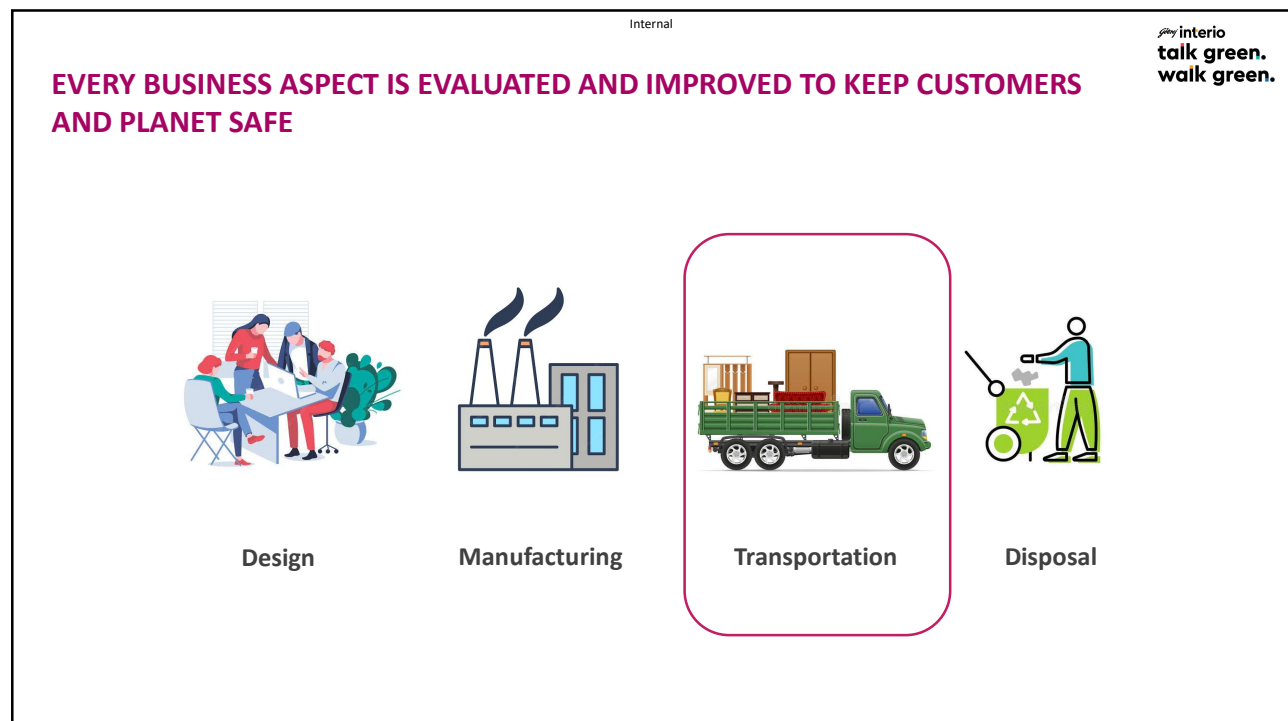


HARIDWAR:
HARIDWAR SHED 7 – GREEN FACTORY
RATING (under implementation)
ISO 50001:2018 EnMS
Zero Waste to Landfill Certified

30



31

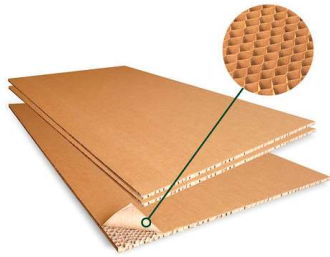


32

Internal

gog interior
talk green.
walk green.

INITIATIVES HAVE ALSO BEEN IMPLEMENTED TO REDUCE IMPACTS DURING PACKAGING AND TRANSPORTATION



Elimination of thermocol based packaging with honeycomb



Use of higher tonnage of trucks with maximum TLFs



Use of railways for long distance transportation

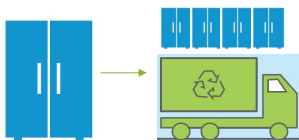
33

Internal

gog interior
talk green.
walk green.

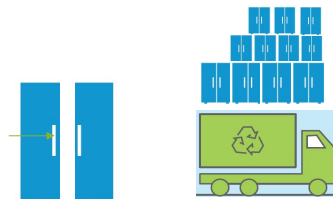
GREEN TRANSPORTATION

Welded Construction of product



22-24 Welded Construction of products are transported in a truck

Knock Down (KD) Construction of product



160 Knock Down (KD) Construction of products are transported in a truck

86 % of reduction on GHG emissions in transportation in case of KD products

- High priority GI material with part load is combined with the high priority load of other Godrej Divisions
- Material from various divisions of GEG (including GI) for the same customer are planned together to ensure reduction in transportation time and complete delivery of all material
- Part load delivery direct to customer is combined with material delivery to the nearest branch warehouse

34

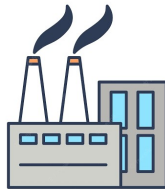
Internal

play interior
talk green.
walk green.

EVERY BUSINESS ASPECT IS EVALUATED AND IMPROVED TO KEEP CUSTOMERS AND PLANET SAFE



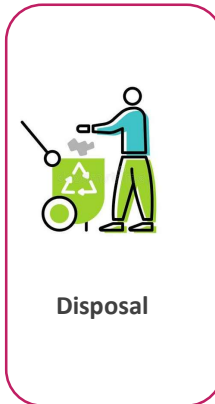
Design



Manufacturing



Transportation



Disposal

35

Internal

play interior
talk green.
walk green.

GREEN DISPOSAL

“WECYCLE” – We Recycle for you!



On receipt of enquiry GI to involve Recycling Partner



Recycling Partner to give an offer to the customer with a copy to GI team

Recycling partner to give the recycling report within 8 weeks after material pick-up



GI team to promote



Together with customer & Recycling Partner conduct an audit for the material to be recycled.



Offer if acceptable, Recycling partner to arrange for pick-up and make payment at the time of picking the material or as per agreed terms



36

Internal

play interio
talk green.
walk green.

GREEN DISPOSAL

Benefits of "WECYCLE"

1. Material Audit & inventorization.



2. Support of SEZ Documentation.



3. Product analysis for better recovery rate.



4. One shot pick up and quick transaction.



5. Transparent end disposal reporting.



37

Internal

play interio
talk green.
walk green.

RESPONSIBLE PORTFOLIO

IMPACT OF THE PAST DECADE

GODREJ ENTERPRISES GROUP



Creating a Greener India

60%
reduction in
energy and carbon
Consumption

60%
reduction in water
consumption

Zero
waste to landfill
+ve
water balance



Good & Green products

37%
revenue
generated from
Good & Green
products



Bridge the employability gap

1.8 lac
training to bridge the
employability gap



Community employment

5000+
Lives impacted
under women and
child development
project

100
million litres of
water conserved

3500+
Farmers employed

38

Internal

play interio
talk green.
walk green.

We believe its all about
EXPANDING our **Circle of Influence**

39

Internal

play interio
talk green.
walk green.

DEVELOPING A SUSTAINABLE AND INTEGRATED SUPPLY CHAIN

Supply Chain Pillars

Supplier Code Of Conduct	Supplier Quality System Assessment
Supplier Engagement	Supplier Cluster Program

80% Purchase from Domestic suppliers

80+ suppliers

1000+ crores

Beyond Sourcing Initiative

40



41



42

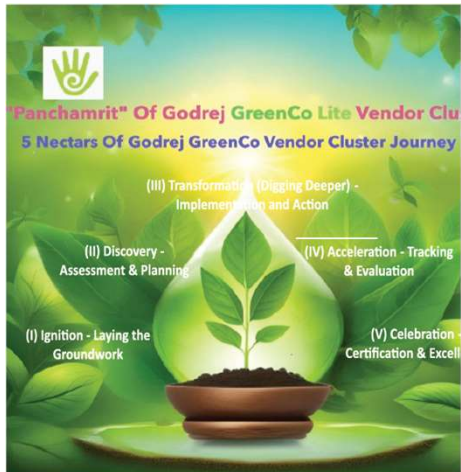
Internal

godrej interio
talk green.
walk green.

GODREJ INTERIO'S APPROACH TOWARDS SUPPLIERS GREEN JOURNEY

PANCHAMRIT

A structured approach to guide SME suppliers through their GreenCo Lite certification journey.



STAGES AND ACTIVITIES:

- 1.Ignition:** Formation of GreenCo clusters and supplier training.
- 2.Discovery:** Establish cross-functional teams; initiate self-assessments.
- 3.Transformation:** Base-year data collection, action plan implementation, and monitoring.
- 4.Acceleration:** Pre-assessment correction and tracking.
- 5.Celebration:** Certification and promoting sustenance of good practices.

43

Internal

godrej interio
talk green.
walk green.

CLUSTER ACTIVITIES :



- Awareness Training for Suppliers
- Guidebook for credit rating system



- Mandate from Godrej Leadership
- Survey for Supplier Need Identification
- CEO-signed GreenCo pledge



- Godrej Site Visits
- Mandatory Requirement, Target Setting
- Data Collection thru CII Templates
- Supplier Registration on CII GreenCo Site



- Comprehensive Audits
- Opportunities for resource conservation thru Projects
- Solar panel guidance, Water metering, Waste Collection tie-up



- ZED & GreenCo Regn.
- Pre assessment
- Gap identification & Mitigation
- Final assessment

44

Internal

interio
talk green.
walk green.

GREENCO CLUSTER JOURNEY : KICK OFF MEETINGS & TRAINING SESSIONS

GreenCo Pledge



Kick Off Meetings – Cluster 1, 2, & 3



45

Internal

interio
talk green.
walk green.

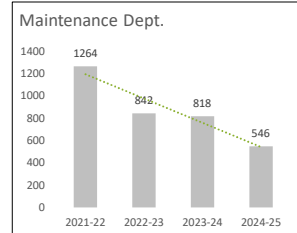
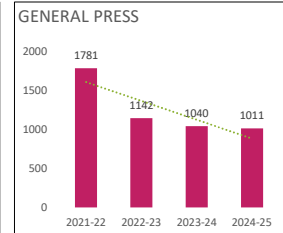
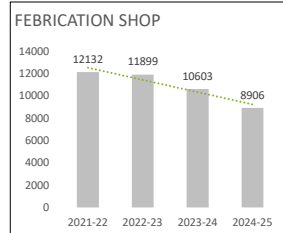
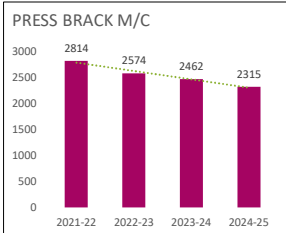
REDUCTION IN SPECIFIC ENERGY CONSUMPTION (SEC) IN LAST 3 YEARS – M/S KHUTALE ENGG.



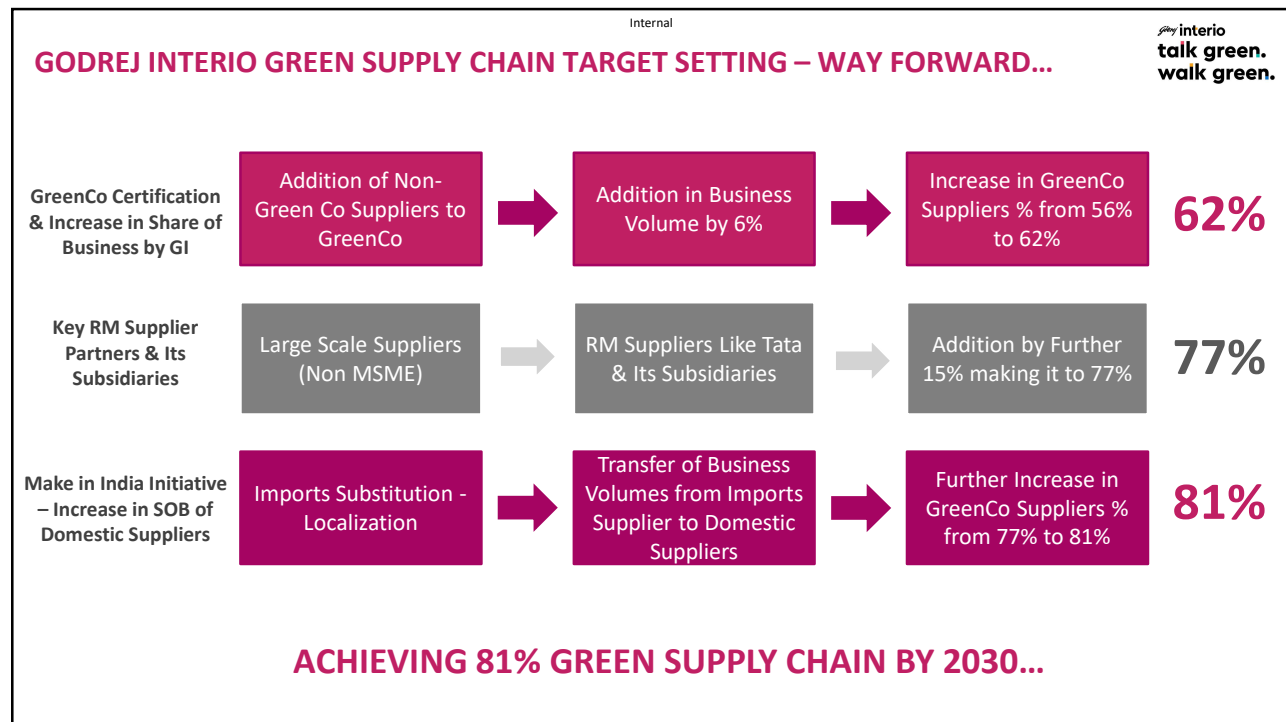
Total Investment- Rs. 58000.00
Yearly Benefit (PF) – 16800.00
ROI- 3.5 Years



Total Investment- Rs. 58000.00
Yearly Benefit (PF) – 33600.00
ROI- 1.7 Years



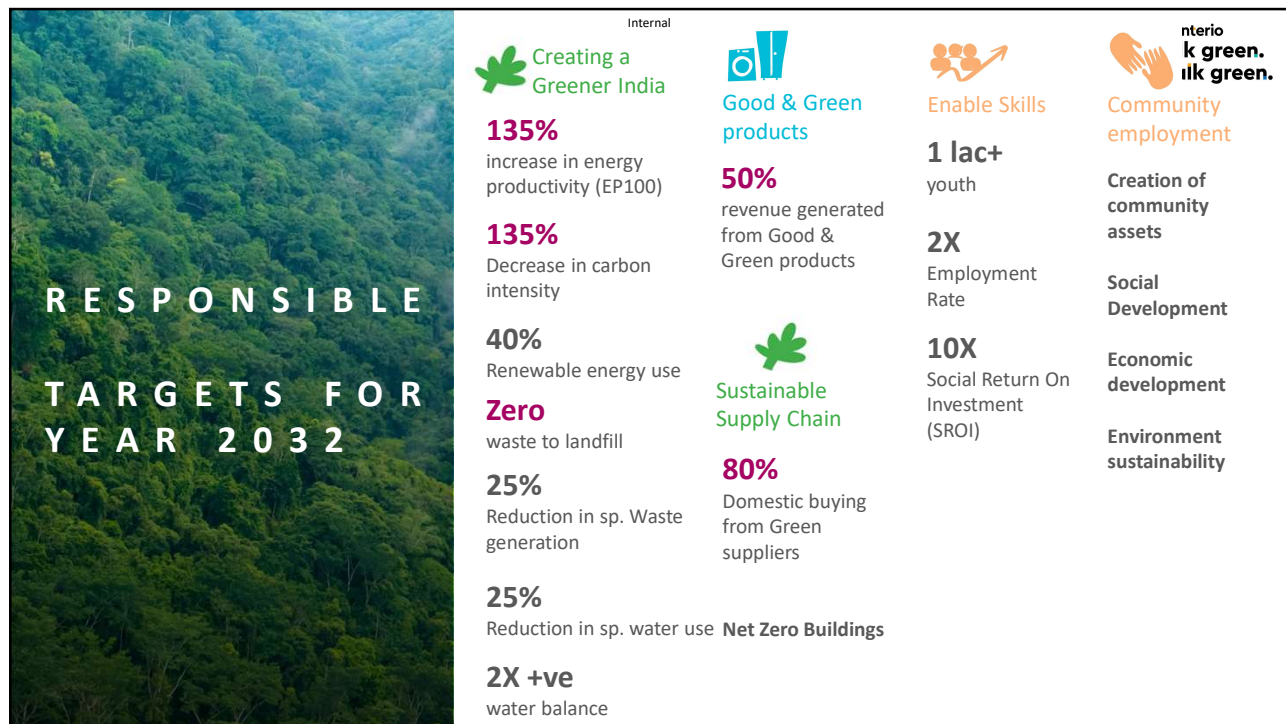
46



47



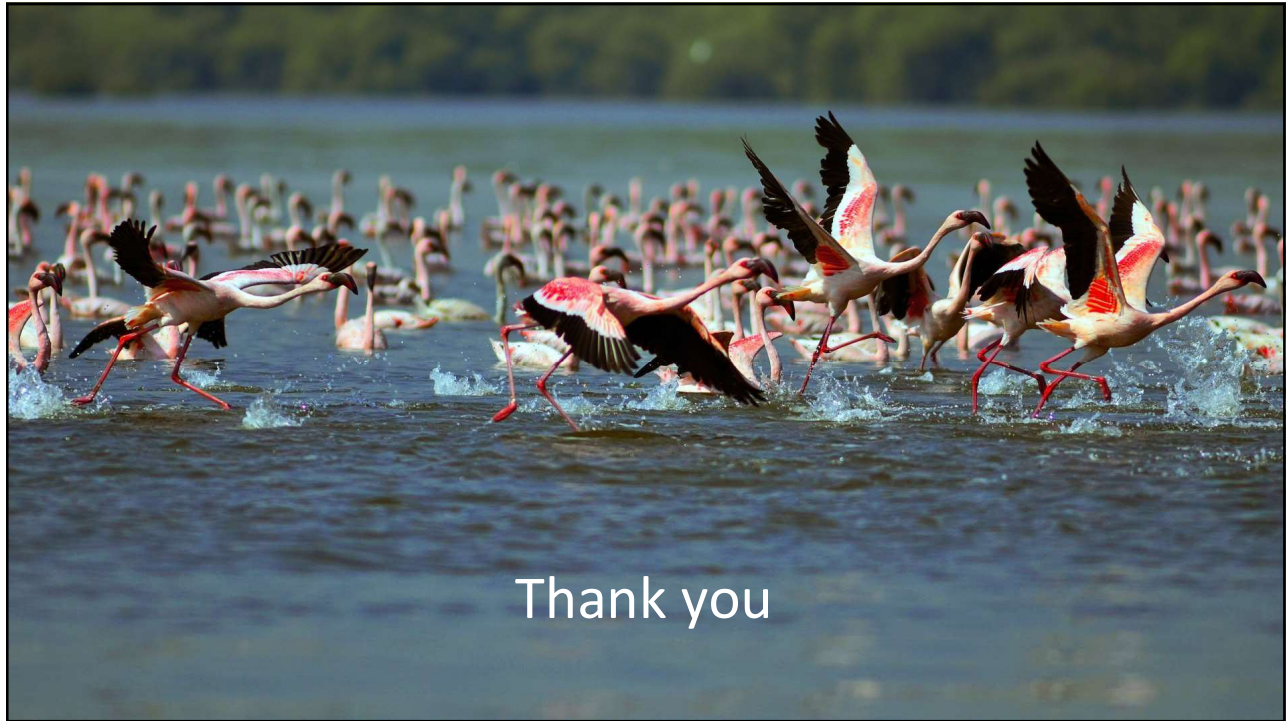
48



49



50



51