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TK ELEVATOR INDIA PRIVATE LTD CHAKAN, PUNE





ORGNIZATION PROFILE

- Established in 2002, TK Elevator India installs, maintains and modernizes elevators and escalators worldwide.
- Our elevators have Received the highest energy-efficiency rating. (Class A under ISO 25745 -2)
- Our Vellino Escalators have received the highest energy-efficiency rating in 2019. (Class A+++ according to ISO 25745-3)

Our Products



Elevators

Next-persecation couldibly today.



Escalators

Always one step about



Moving Walks

Reach your destinations quickly and comfortably.



Airport Solutions

Unrealished comfort and safety.



Stair Lifts

Independence, safety and amofurt-



Service

Value-adding, manufactures-Independent pervices.



Modernization

Einternation life of your elevator and eccalator.



MULTI

The sourld's first rape-free elevator

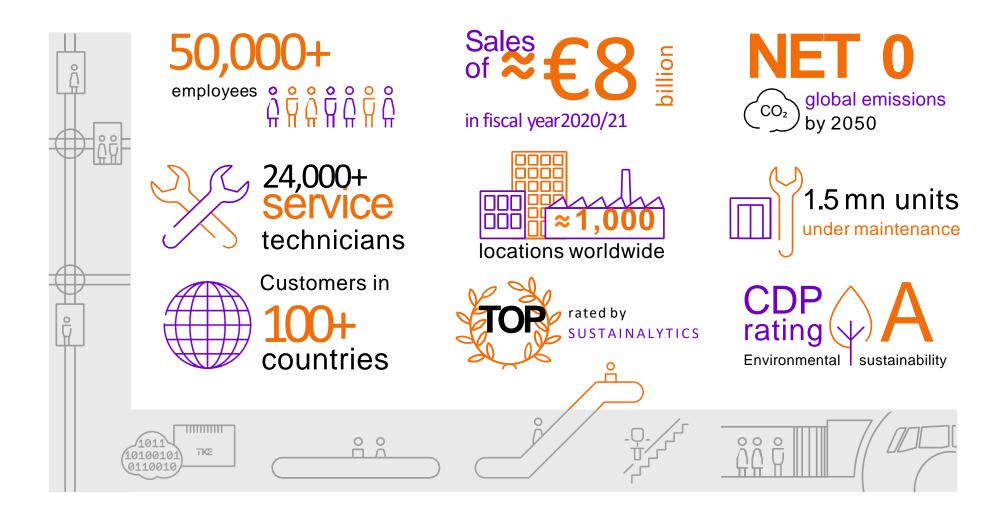


Digital solutions

Consent all your equipment to enhance



TK Elevator at a Glance





Global Footprint

TKE customers worldwide and our manufacturing footprint reflects this, extending from the Americas across Europeto Asia. At all of our facilities, we leverage our expertise and experience in engineering and manufacturing urban mobility solutions to develop new innovations and continually improve existing products.

All major sales markets are covered by local manufacturing facilities and complemented by a truly global service network with approximately 1,000 branches spread across five continents. Neuhausen Düsseldorf Middleton - Cheonan Fort Worth - Shanghai Thongshan Andoain Madrid - O - Hong Kong ASIA PACIFIC MANUFACTURING AND R&D FACILITIES AMERICAS EUROPEAFRICA ≈ 4 0 0 ≈300 ≈300 Escalators branches1 branches1 branches Airport Solutions Home Solutions RESEARCH & INNOVATION CENTERS AND TEST TOWERS - Porto Alegre Research & Innovation Center Principal "Test Tower" REGIONAL HEADQUARTERS GRI 102-2 | GRI 102-3 | GRI 102-4 | GRI 102-7 1 | "Branches" refers to service centers.



ENERGY EFFICIENCY PRODUCTS

CLIMATE

PIONEERING PRODUCTS THAT REDUCE CARBON FOOTPRINT

Our products'environmental performance

We develop Life Cycle Assessments (LCAs) to understand and improve the environmental performance of our products.

We publish Environmental Product Declarations (EPDs) to communicate the results of LCAs to the public and ensure transparency regarding the environmental impact of our products.

TK Elevator published the first EPD for the endura elevator line in the US in 2017. Today, we have EPDs registered for a wide range of our elevators in the United States, Latin America, Europe, China and Australia.

Energy efficient products

Our elevators have received the highest energy-efficiency rating (Class A under ISO 25745-2). We also received TK Elevator's first certificate for the highest energy-efficiency rating (Class A*** according to ISO 25745-3 in 2019) for the Velino escalator.



MAX

Our innovative cloud-based maintenance platform helps us optimize the logistics of our maintenance activities and reduce mileage of our service technicians, which results in a significant reduction in CO2 emissions. MAX also helps extend the service life of our elevators by approximately 30%.



MULT

MULTI is the world's first rope-free elevator, moving multiple cars in a single shaft, vertically and horizontally. MULTI is expected to use 50% less floor space compared to typical elevators, significantly reducing the embodied carbon for the core area of a building.



TWIN

Our breakthrough TWIN® elevator system has two cars arranged on top of each other that operate independently in one hoistway. TWIN® provides the same transport capacity as traditional elevators but requires less space, less construction and overall, reduced embodied carbon.



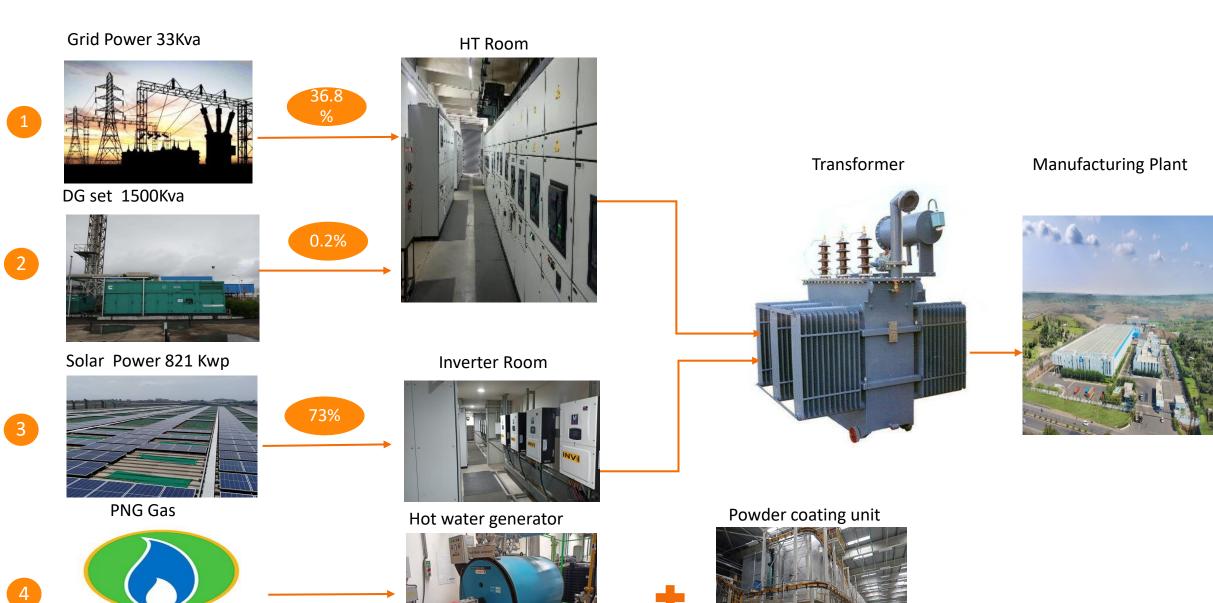
AGILE

AGILE transforms elevator systems into a seamless mobility ecosystem that is more intelligent and efficient. AGILE gauges traffic demand and groups passengers based on similarity of destination. This leads to less crowding, fewer stops and more efficient use of available elevator capacity, optimizing energy consumption in low demand conditions.



MAHANAGAR GAS

ENERGY FLOW DIAGRAM





HIGHLIGHTS





zero emissions and smart efficiency



CDP 'A' score for climate change in 1st year of reporting

BUSINESS 1.5°C

Commitment to business ambition for netzero and Science-Based Targets (SBTs)

Source 100% renewable electricity across global operations by 2030





zero accidents and strength through diversity

Global Framework Agreement (GFA) signed – key to safeguarding human and employee rights globally



New D&I target: increase the female share in senior leadership positions from 20% to 30% by 2025



Supports youth around the globe to get access to education, professional and life skills training



zero tolerance and sharedvalues

Signatory of UN Global Compact as a stand-alone company





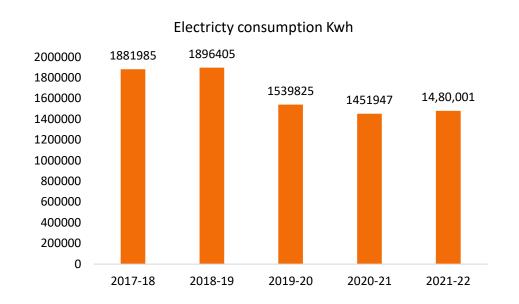
Stand-alone TKE-specific Compliance Management System

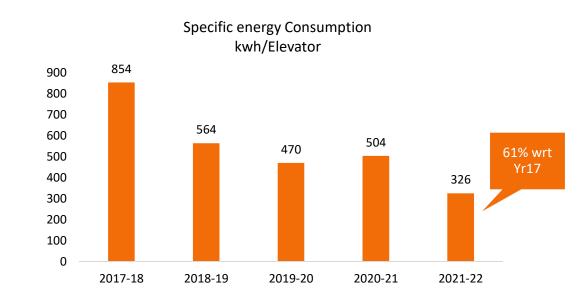
Transparent communication on ESG performance

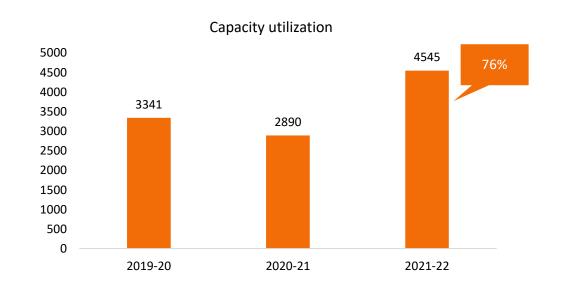


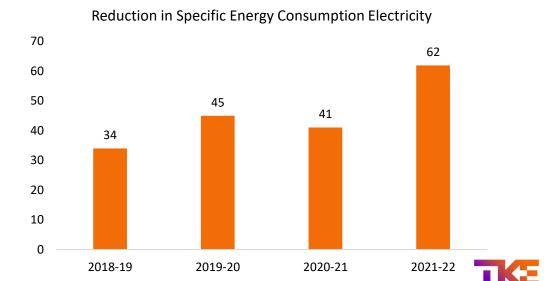


SPECIFIC ENERGY CONSUMPTION -ELECTRICAL

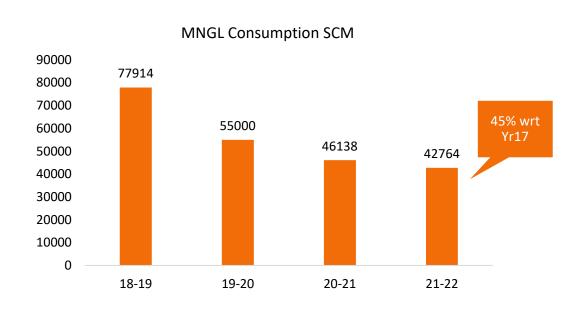


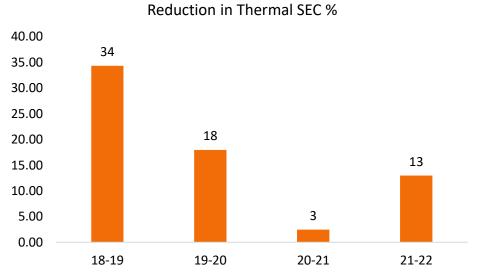




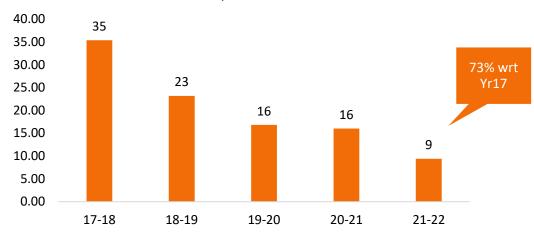


SPECIFIC ENERGY CONSUMPTION –THERMAL











INFORMATION ON COMPETITORS, NATIONAL & GLOBAL BENCHMARK: SUSTAINALYTICS RATING







OTIS



ESG Risk Rating

Medium Severe 30-40 40+ 20-30 0 - 1010-20

Last Update: Oct 22, 2021

ESG Risk Rating

Negligible	Low	Medium	High	Severe
0-10	10-20	20-30	30-40	40+

Last Update: Oct 5, 2021

ESG Risk Rating

Medium 24.5

Negligible	Low	Medium	High	Severe
0-10	10-20	20-30	30-40	40+

ESG Risk Rating Low 0 - 1010-20 20-30 30-40 40+

Last Update: Nov 8, 2021 Last Update: Oct 14, 2021

TKE's lower ESG Risk Rating shows better performance on ESG Risk management



STRATEGY FOLLOWED TO IMPLEMENT ENERGY CONSERVATION/ EFFICIENCY PROGRAMS





ABSOLUTE ENERGY SAVING

Year	Sr no	Project	Saving in kWH	Investment done in Rs lacs	Saving in Rs lacs
2019-20	1	Installation of Small Capacity 82.5 KVA DG set for running night instead of Underloaded 1500 KVA dg	3300	0.80	0.231
	2	Timer for Tube axial fans 12 nos to start and off avoided 1 hrs idle use	13853	0	1
	3	Air Conditioning Switch ON done 15 minutes before Shift Start & Switched OFF 15 min before shift end. Individual lighting provided for workstation lightening. RO Water Cooler turned Off after Office Hrs. All Exhaust Blowers turned On 1 Hr prior & switched Off 15 Min. after Office Hrs.	351000	1	25
	4	Timer for HVLS fan to avoid running in lunch time & switch off after Shift end	11544	0.20	1
		Total	379697	2.165	26.58
2020-21	1	Installation of 850 kWp roof top solar system.	695000	0.10	38.23
	2	Switching off HVAC & Use of fan for Controller Assembly area	36851	0.10	3.50
	3	Switching off HVAC & Use of fan for Shop Floor Offices	10553	0.15	1.00
	4	Optimization of powder Coating Plant Electricity saving	20160.3174	0.1	3.2
		Total	762564	0	46
2021-22	1	Switching off idle running transformer	45014	0.05	3.15
	2	Electrical equipment's instead of Pneumatic like Drill, Jig Saw, Grinder & Studder	1650	0.10	0.12
	3	Occupancy Sensor for Washing rooms	360	0.29	0.03
	4	Optimization of powder Coating Plant MNGL saving SCM	0	0.10	0.00
	5	Modification in HT Panels to save Diesel cost for running DG sets due to breakdown in HT panels -	40000	0.25	3.2
	6	Scheduling & regrouping of HVAC in lunch ,Shift start & Shift End time for Head Office Building	50000	0.15	4.75
		Total	137024	1	11



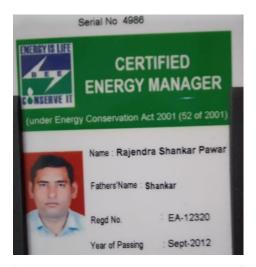
ENCON MEASURES IMPLEMENTED

		S	avings				
Sr No	Description of project	Electricity kWh	Diesel in Lit	MNGL in SCM	Target Date	Investment Requirement in lacs Rs	Co2 emission Reduction in Tones per year
	Completed Projetcs						
1	Installation of roof top Solar PV system 821 kW	905500			Completed		770
2	Battery operated Electrical Vehicle instead of Diesel Vehicles		12000		Completed		56
3	Selecting Energy efficient Machines	10000			Completed		9
4	Selecting Energy efficient Transformer & Switching off idle running transformer	45012			Completed		38
5	Selecting Energy efficient Compressor with VFD Model	2500			Completed		2
6	Optimization of powder Coating plant to reduce MNGL consumption			20655	Completed		174
7	Switching off HVAC & Use of fan for Controller Assembly area	36850.7			Completed	0.1	31
8	Switching off HVAC & Use of fan for Shop Floor Offices	10553			Completed	0.1	9
9	Modification in HT Panels to save Diesel cost for running DG sets due to breakdown in HT panels -	0	4000		Completed	0.25	19
10	Scheduling & regrouping of HVAC in lunch ,Shift start & Shift End time for Head Office Building	50000			Completed	0.1	43
11	Timer for HVLS fan to avoid running in lunch time & switch off after Shift end	11544			Completed	0.15	10
	Total	1071960	16000	20655		1	1160



LIST OUT THE RECOMMENDATIONS OF AUDIT & NUMBER OF MEASURES IMPLEMENTED.

Sr No	Description of project	Expected Saving per year kWh	Target Date	Investment Requirement in lacs Rs	Co2 emission Reduction in Tonnes	Status
1	Utilize waste heat from Poweder coating oven to hot water used in greasing & degreasing	45120	30.06.2022	5	38	CER under Approval process
2	Installation of VFD and DO Meter for air Blowers of STP plant	43200	30.12.2021	1.09	11	PO given to vendor ,waiting for material
3	Power factor Improvement	17350	30.02.2022	1	15	Harmonics study planned in Dec 21
4	Charging of Battery vehicles in A zone	0	30.06.2023		Cost saving Rs 1 lac	Project complete by Dec 21
5	Replacement of T5 fittings with LED or Induction lamp	5000	30.06.2022	2	4	CER under Approval process
6	Switching off or reducing capacity of LED lamps near windows	1000	30.03.2022		1	CER under Approval process
7	Solar streetlights	84000	30.12.2022	15	71	CER under Approval process
8	Electrical equipments instead of Pneumatic like Drill, Jig Saw, Grinder & Studder	Under Study	30.06.2022	0.5	Under Study	
9	UV Sunproof Film on windows of all Offices	Under Study	30.06.2022		Under Study	
10	Air curtain for canteen AC	Under Study	30.06.2022		Under Study	Under study
11	Occupancy sensor for staircase	Under Study	30.11.2021		Under Study	
12	Motivating employees for E vehicles, providing free charging in company premises	Under Study	30.06.2022		Under Study	
13	Automated organic waste decomposer	Under Study	30.06.2022	2	Under Study	CER under Approval process



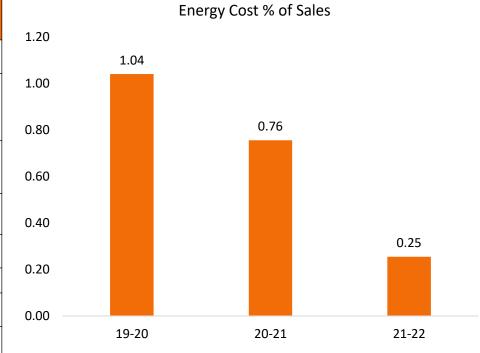


- **As we have BEE Certified Energy Manager & Auditors in Plant who continuously monitors the energy consumption. Various OFI are identified**
- As we are in progress of Implementation of ISO 50001, we will conduct external Energy Audit for every two years or on completion of major Process changes.



FUTURE PLAN FOR ENERGY CONSERVATION

Sr No	Description of project	Expected Saving per year kWh	Target Date	Investment Requirement in lacs Rs	Co2 emission Reduction in Tonnes
1	Installation of 500 kW additional Solar Roof top PV system Capex	500000		350	425
2	Compressed Air Optimization- Replacing Underloaded 600 CFM compressor with Available 150 CFM VFD screw compressor	3600	30.11.2022	1	3
3	Utilize waste heat from Powder coating oven to hot water used in greasing & degreasing	45120	30.06.2023	5	38
4	E vehicle for Employee Transport instead of Diesel operated.	690480	30.12.2022	210	169
5	Installation of VFD and DO Meter for air Blowers of STP plant	51840	30.12.2022		13
6	Power factor Improvement	17982	30.12.2022	1	15
7	Charging of Battery vehicles in A zone	0	30.12.2022		Cost saving Rs 1.5 lac
8	Replacement of T5 fittings with LED or Induction lamp	5000	30.06.2023	2	4
9	Switching off or reducing capacity of LED lamps near windows	1000	30.03.2023		1
10	Solar streetlights	84000	30.12.2023	15	71
11	Electrical equipments instead of Pneumatic like Drill,Jig Saw,Grinder & Studder		30.06.2023	0.5	Under Study
12	UV Sunproof Film on windows of all Offices	Under Study	30.06.2023		Under Study
13	Air curtain for canteen AC	Under Study	30.06.2023		Under Study
14	Occupancy sensor for staircase	Under Study	30.11.2022		Under Study
15	Motivating employees for E vehicles, providing free charging in company premises	Under Study	30.06.2023		Under Study
16	Automated organic waste decomposer	Under Study	30.06.2023	2	Under Study



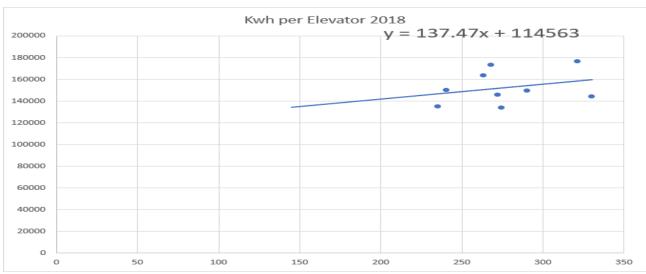


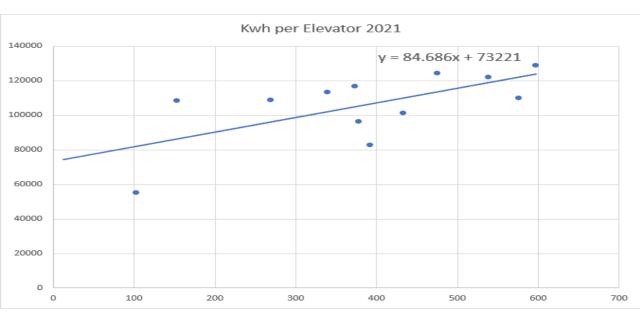


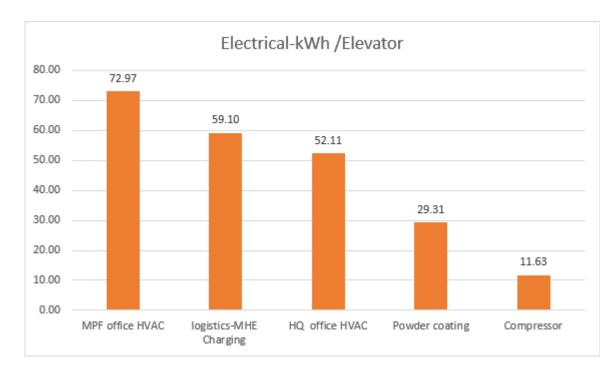
❖ With identified Projects we will save CO2

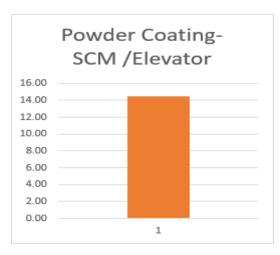


REGRESSION ANALYSIS & ENPI











INNOVATIVE PROJECTS— INSTALLATION OF 821KW SOLAR POWER PLANT

Solar Project Details

To reduce the Co2 emission and electricity cost by using natural resources i.e., solar energy.

Actions

Supply & Installation of Solar Power at MPF Roof top & Car parking area as per the Power Purchase Agreement (PPA) for 20 years

•Solar Project Summery :

•Solar Plant Capacity: 821 Kw

•Roof top Capacity :-755 Kw

•Carport Capacity :- 66Kw

•Assured Electricity Generation: 1067 Mw/annum

Net metering :- Excess electricity generated during the holidays, lunch time etc. the same would be export to Govt. & Compensation will get from Govt.

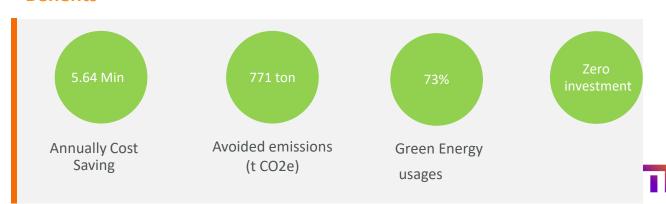
Solar Project



Roof top solar panels

Carport

Benefits



INNOVATIVE PROJECTS – LANDING DOOR DESIGN MODIFICATION

Project Description:- Lading door SS sheet coming from supplier having width 1250 mm. Wastage of material during shearing operation. So, procuring finish SS sheet as per our design 1140 mm.





Result

Year	SS scrap weight From LDR Frame Material(tone)	Value (INR)	Electricity Kwh	M/c Energy Cost savings
2018 to 2019	15.7	27,47,500	67125	5,37,000
2019 to 2020	2.6	4,55,000	5231	41,850
2020 to 2021	2.6	4,55,000	5231	41,850
Improvement	83.4%	83.4%	92%	95%

Reduced SS Scrap weight From LDR Frame Material by 13.1 Tons.





INNOVATIVE PROJECTS – POWDER COATING OPTIMIZATION

Project Description:- Optimization of powder coating plant to reduce PNG & electricity consumption

Before

- Powder coating underutilized.
- Powder coating started at 9 am after shift start
- Manpower Idle for 1 hrs. waiting for temp.



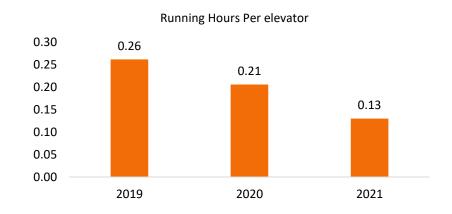
<u>After</u>

- Powder coating 100% loading .waiting till full load .
- Powder coating started at 8.15 am after shift start & switched off before 1 hrs.
- No Idle manpower



<u>Result</u>







INNOVATIVE PROJECTS – CONTROLLER ASSLY AC OPTIMIZATION

Project Description:- Switching off HVAC & Use of fan for Controller Assembly area.

Before

- Controller assly AC continually on as per shift.
- Total area of 1527 Sq Mtr.



After

- No requirement of AC for controller assly .
- Switched off AC and installed the fans as there is no need of product requirement



<u>Result</u>

- Electricity saved 47404 kwh /year
- Co2 reduction 34 ton/year
- Cost saving 3.55 lac/year



NEW TECHNOLOGY - BATTERY OPERATED FORKLIFTS, REACH TRUCK, STACKER, SCISSOR LIFT



	TPM								
SR.NO.	GROUP	TYPE	BRAND	MODEL	ASSET MO.	COMMISSIONING DATE			
1	Forklift	5T - Battery Operated	HYUNDAI	508-9F	NATH 1E-2	18/02/2017			
2	Forklift	3T - Battery Operated	HYUNDAI	308-9FE	MIHIE-1	15/02/2017			
3	Forklift	3T - Battery Operated	HYUNDAI	30B-9FE	M/IHIE-3	17/92/2017			
4	Forklift	3T - Battery Operated	HYUNDAI	308-9FE	MIHE-4	15/02/2017			
5	Forklift	3T - Battery Operated	Nilkamal	CP030#-01	MHE-100				
6	Forklift	3T - Battery Operated	Nilkamal	CPD30#-D1	MATHIE-D.D				
7	Reach truck	1.6T - Battery Operated	HYUNDAI	168RU-9E	MIHE-5	18/02/2017			
8	Reach truck	1.6T - Battery Operated	HYUNDAI	168RJ-9E	MIHE-6	13/02/2017			
9	Reach truck	1.6T - Battery Operated	Nilkamal	CQD16H-JC2	MIHE-9				
10	Stacker	1.5T - Battery Operated	Nilkamal	NK-ES1563AC	MIHE-7/	12-08-2005			
11	Stacker	1.5T - Battery Operated	Niikamal	NK-ES1563AC	M/HE-8	12-08-2005			
12	Reach truck	1.6T - Battery Operated	Jungheinrich	ETV116m	MIHE-12	27/12/2008			
13	Stacker	1.5T - Battery Operated	Hyundaii	15ESR	MIHE-13	15/08/2019			
14	FORKESE	5T-Battoy Operated	HWHOAT	50G-9F	719HE-114	20/05/12019			

Running Cost Calculation of 3 yrs for Electric & Diesel counterbalance Truck

No.	Item	Quantity	Unit	Expenses				
				MRP	Electric Truck	MRP	Diesel Truck	
1	Mast OH	1	Ea	17000	12750	17000	12750	0.75
2	Stear Axle OH	1	KIT	25000	18750	25000	18750	0.75
3	Gear Oil	15	Ltr	3000	2250	3000	2250	0.75
4	Hydraulic Oil	120	Ltr	24000	18000	24000	18000	0.75
5	Brake OH	4	Ea	20000	15000	20000	15000	0.75
6	Electricity Charges	18750	UNIT	180000	180000	0	0	0.75
7	Diesel Charges	12000	ltr	0	0	732000	732000	0.75
8	Engine OH	1	Ea	0	0	60000	45000	0.75
9	Tyres	4	Ea	32000	24000	45000	33750	0.75
10	Engine Oil	120	Ltr	0	0	24000	18000	0.75
11	Filters	3	Kit	9000	6750	45000	33750	0.75
12	Motor Servicing	2	Ea	10000	7500	0	0	0.75
13	Clutch Maintenance	1	Ea	0	0	25000	18750	0.75
	TOTAL				285000		948000	0.75
	Running Cost per day				950		3160	0.75

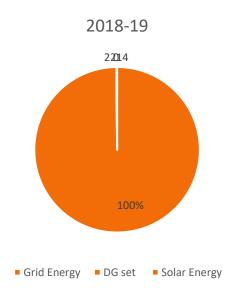
^{*} Above costs are on estimation basis

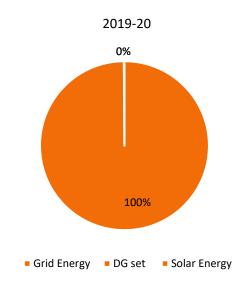
Parameter	Electrical Forklift	Diesel Forklift
Electicity required for Charging in Units	18750	0
Diesel required in Lit	0	12000
CO2 emission in Kg	15937.5	32760
Avoided CO2 Emission in Kg	16822.5	
No of Vehciles considered	10	
Total Avoided CO2 Emission in Kg	168225	
Total Avoided CO2 Emission per Year in tons	56.075	

[❖] In Comparison Diesel Vehicles-Avoided CO2 Emission per Year −56 tons



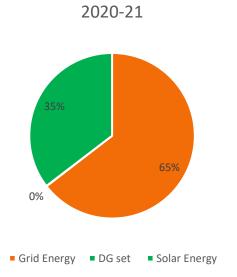
UTILIZATION RENEWABLE ENERGY

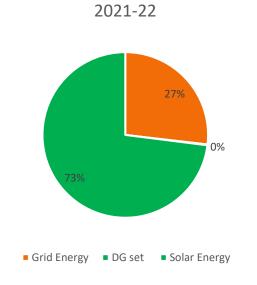


















MPF INDIA - WASTE MANAGEMENT

Waste Handling System

- All Dept Send waste to the scrap yard.
- SOP for all Waste Management.

Waste Selling Process

- Segregation waste in scrap yard.
- TKEI will be do auction of all waste.
- Govt authorized vendor will be part of auction.

Disposal Process

- Hazardous waste directly send to the Govt. recycling units.
- Vendor send the all waste to recycling .
- Vendor is selling the Wood to sub vendor for reusing.

Vendor Permission letter

MAHARASHTRA POLLUTION CONTROL BOARD

hone : 020-25811694

x : 020-25811029

sropune2@mpcb.gov.in

isit At : http://mpcb.gov.in

MAHARASHTRA

Jog Center, 2nd floor, Mumbai Pune Road, Wakdewadi Shivajinagar, Pune – 411003

Green/S.S.I

Date: - 26 .11.2019

Consent No: SRO/PUNE-II/CONSENT/ 1911001181

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization / Renewal of Authorization under Rule Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

[To be referred as Water Act, Air Act and HW (M&H) Rules respectively].

CONSENT is hereby granted to

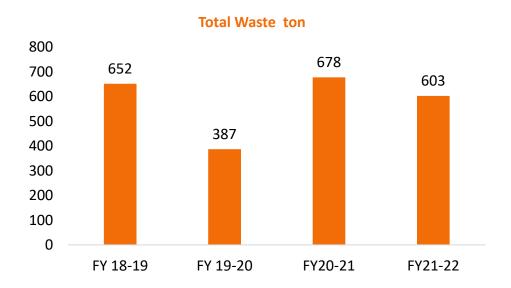
located in the area declared under the provisions of the Water Act, Air act and Authorization under the provisions of HW(M&H) Rules and amendments thereto subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

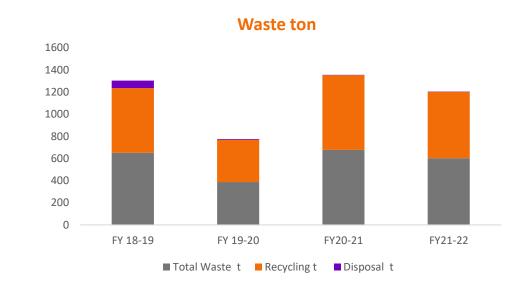
- 1. The Consent to Operate is granted for a period up to: 31/07/2028
- 2. The Consent is valid for the-





MPF INDIA - WASTE MANAGEMENT





Year	Total Waste ton	Recycling ton	Disposal ton
FY 18-19	652	584	68
FY 19-20	387	381	6
FY20-21	678	674	4
FY21-22	603	600	3



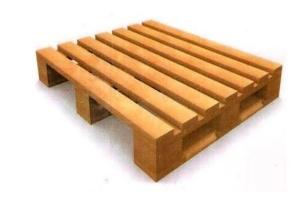


REUSE OF SCRAP MATERIAL

Reuse of wooden Material:

Year	Pallet Qty per Year	Cost per Pallet	Pallet Cost Per Year	KG Wood	Scrap Cost	Carpenter Cost	Saving Cost
2019-20	1800	490	882000	18000	27900	144000	882,000
2020-21	3600	490	1764000	36000	55800	288000	1,764,000
2021-22	3300	490	1617000	33000	51150	264000	1,617,000
			42,63,000	87,000	1,34,850	6,96,000	34,32,150







Reuse of wooden material for sitting arrangement





TKE

Rejected SS material used for building wall corners & tables.

GHG INVENTORISATION - TKE COMMITS TO REDUCE GHG EMISSIONS RELATED TO OWN ACTIVITIES

Scope 1

Scope 2

TK Elevator commits to reduce 25% absolute scope 1 and 2 GHG emissions by 2030 from a 2019-20 base year

Indirect emissions from

energy consumption

Classically accounted as own emissions

Direct emissions of own

assets (incl. factories and

vehicle fleet)

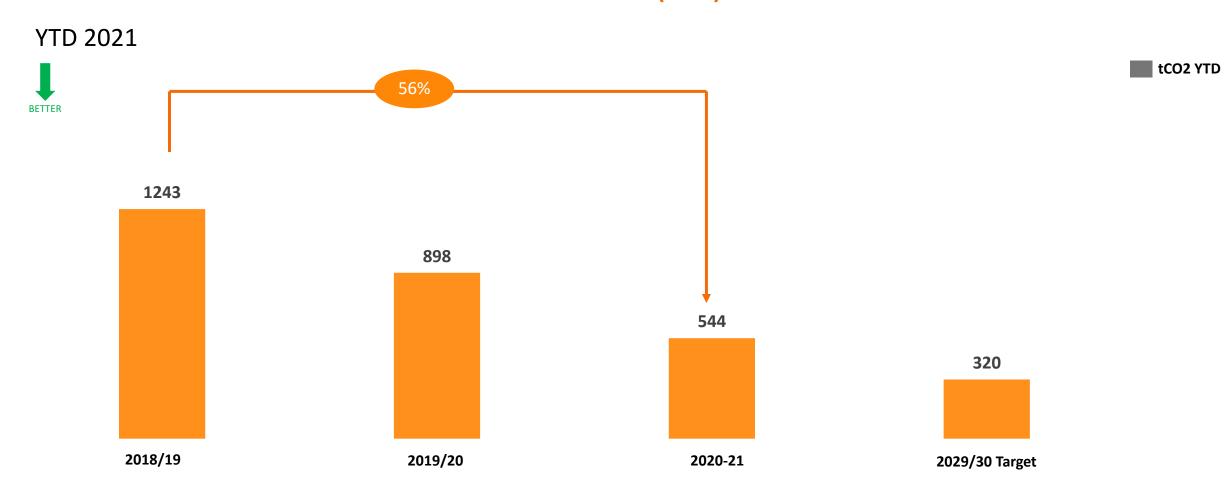
 TK Elevator commits to reduce 50% absolute scope 1 and 2 GHG emissions by 2040 from a 2019 -20 base year

TK Elevator India have reduced 56% absolute GHG emissions by 2021 from a 2019-20 base year



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CO2 EMISSIONS (TON) PUNE





GHG REDUCTION. SCOPE 1&2 - MFG

	Sponsor	Functional Lead				
	V. Della Valle	P. Keilich				
	TKE Target	Baseline	Deadline	FY 20/21		
Target	53% reduction of absolute Scope 1&2 emissions	FY 18/19	Sept 2030	19% vs 18/19		
Approach	 Reduce energy consumption through energy efficiency measures Increase the use of renewable electricity 					

	company		company Lead					
	MPF India		Milind Harshe					
Baseline	Baseline ACT FC			Target				
18/19	20/21	21/22	22/23	23/24	24/25			
1243t CO2e	544 t CO2e 56 %	500t CO2e 59 %	480t CO2e 61%	470 t CO2e 63 %	460t CO2e 65%			
Initiatives FY 22/23	Replacement of shop floor T5 lights with LED. Installation of UV film Installation to reduce heat load							

		CAPEX (k EUR)		EBITDA impact (k EUR)			Scope 1&2 reduction (tCO2e; % vs 18/19)			
Description of the initiative	Payback	22/23	23/24	24/25	22/23	23/24	24/25	22/23	23/24	24/25
■ Solar Street light	5 years		30			30		-	60 t CO2e 5%	
■ T5 tube light to replaced with LED	5 Years	8	8	2	8	8	2	10 t CO2e 1%	10t CO2e 1%	5 t CO2e 1%
 UV sunproof film for all office area window to avoid AC load 	4Year	3	3		3	3		5 t CO2e 0.5%	5t CO2e 0.5%	
TOTAL		11	41	2	11	41	2	15 t CO2e 1.5%	75 t CO2e 6%	5 t CO2e 0.5%



GREEN SUPPLY CHAIN MANAGEMENT

Supplier code of conduct



- We consider social, ethical and environmental criteria in all purchasing decision.
- > TK Elevator released an updated supplier code of conduct in 2021.
- All suppliers to adhere to the principles laid out in the Supplier code of conduct.

Sustainability auditing system

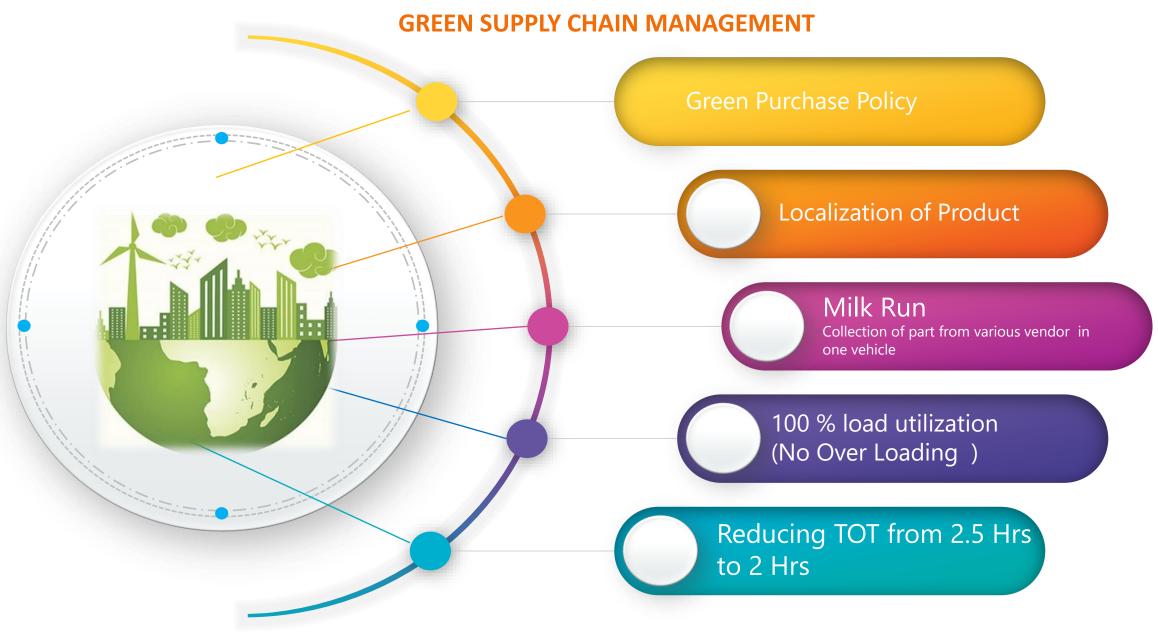


- Our aim is to reduce supply chain risks and to foster the ongoing relationship with our suppliers by finding solution rather than terminating these relationship.
- We conducted 20 audits in 2020.21 and plan to double this effort in 2021/22



Recipient of the CDP "Supplier Engagement Leader 2021" award for taking action to measure and reduce environmental risks in our supply chains.







TEAMWORK, EMPLOYEE'S INVOLVEMENT IN ENERGY CONSERVATION

Sr No	Activity
1	Attending various ENCON training by MEDA,PCRA & BEE
2	Attending various Exhibitions IMTEX
3	ENCON week, Environment day celebration
4	Competitions on energy saving— Slogan, Essay, Poster etc. Appreciation awards for participants
5	Separate KAIZEN schemes for energy conservation
6	Watts up group for Information Sharing, Video films.
7	Tree Plantation form internal team
8	Visual Display for increasing awareness of ENCON activities.
9	Motivating employees for appearing BEE energy manager & Auditor Exam.
10	Addressing through PA system & Daily Sunrise meetings







ENERGY WEEK CELEBRATION AND COMPETITION







(Clockwise) Administration of Energy Oath to employees at HQ Office, Manufacturing Office and MPF Shop Floor Area

















(Top to Bottom) Spot Quiz on Energy Conservation conducted at MPF's Canteen; Energy Conservation Poster & Slogan Awards Distribution



ENERGY CONSERVATION CELL

			CMD			
			Plant Head			
			ENCON committee	-	Energy Manager	
Manufacturing of 1. Manufacturing Processes 2. Powder Coati	g		Utility Cell 1.Power 2.Compressed Air 3.Water 4.Renewable energy		New Technology 1.Energy Efficier 2.Vendor sourci 3.Benchmarkin 4.IED	ncy ng
Purchase Department	Industrial engineering department	Facility department	Maintenance department	Production department	Design department	Powder Coating
•Implementatio n of green purchase policy	•Search and Selection of new energy efficient technology	•Water conservation	•Energy conservation & increasing % of renewable sources	Reducing cycle time & energy wastage	• Reducing weight of the component at design stage	• Reducing PNG & paint consumption

Sr	Function			Responsibility		
no		Chairman Mfg. Head	Energy Manager	Energy & Environment Manager	Team Members	Finance
1	Measure consumption of Energy & environment					
2	Identify energy & Environmental cost centres					A
3	Track performance					
4	Set targets for Energy & Environmental usage	A	A	•		
5	Develop & Participate conservation programme.			•	•	
6	Inspect Equipment's					
7	Select projects for improvement	À	A			
8	Allocate budget and resources	A	A	•		•
9	Prepare documentation					
10	Provide training					
11	Review new projects for energy efficiency	A	A	•		
12	Carry out energy management audits	À	À			

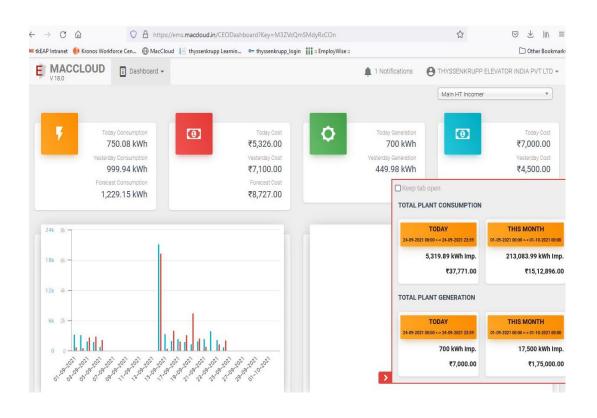
Approval authority





MONITORING DAILY, MONTHLY POWER, PNG & WATER CONSUMPTION OF SECTIONS.

Online Cloud Monitoring System



Monitoring Sustainability Parameters Daily





ISO 50001:2018 IMPLEMENTATION

- We are in process of ISO 50001:2018 implementation.
- All Employee awareness training completed
- Stage 1st Audit planned in last week of Aug 2022.

RE: ISO 50001-Internal Auditor Training-TK Elevator





Dear Vishal

We are ready for the 1stage audit for ISO 50001

Kindly confirm the availability of auditors.

Regards,

Rajendra Pawar

Manager - Maintenance & Facility

T: +91 02135 624500, D:02135 6245484 +91 9860049491, rajendra.pawar@tkelevator.com

TK Elevator India Private Ltd. (formerly known as thyssenkrupp Elevator India Pvt. Ltd.)

Plot No A-23, MIDC Chakan Phase II, Village Khalumbre, District Pune, Maharashtra, 410501 I India | www.tkelevator.com



TK Elevator India Private Limited **Energy Policy**



Issue Date - 18

June 22

We at TK Elevator India Private Limited are committed to offer energy-efficiency in design, manufacturing, and supply of Elevator, Escalators & its components. We are committed to achieve Environmental & climate protection and energy efficiency by achieving lowest specific energy consumption and taking proactive initiatives to combat climate change. TK Elevator aims to reduce direct and indirect emissions by 25% by 2030 from 2019 base

We hereby declare and commit that our organization and all our employees will:

- Comply with all applicable legal and other requirements, corporate policies, and standards always regarding energy use, consumption, and efficiency.
- Continual improvement of all environment and Energy performance through resource optimization, deployment of latest technologies and cost-effective usage of energy.
- Maintain healthy, ecofriendly facilities and processes by ensuring that all resultant environmental impacts and the use of energy and natural resources minimum.
- Reduce adverse environmental impact of our operations and products by
 - Optimal energy usage and Conserve natural resources.
 - Reducing waste and emission.
- Devote to minimize carbon footprint from our operations by ecofriendly, energy efficient manufacturing processes, facilities, through procurement of lowest life cycle cost products and star labelled energy efficient equipment's.
- Educate, train, motivate and consult with employees to take active participation & accountability for improve energy performance.
- Communicating policy & necessary information and arrive at common understanding of our environmental and energy issues with interested parties.

Gyan Mishra

Milind Harshe

Occupier

V.P.-Manufacturing





NEW TECHNOLOGY /INNOVATION EMPLOYED FOR ENERGY SAVINGS

Production & Utility



Solar Panels



Energy Efficient CNC M/C



Energy efficient DG sets



Energy Efficient transformer



Energy Efficient Compressor



Motion sensor



Battery Operated Forklifts



Day lights Roof sheets



AC unit controller system





Drip Irrigation system



STP/ETP Plants

Rainwater harvesting



100% Roof area covered in **Rainwater harvesting**



Wooden Material **TKE** Recycled



WATER CONSERVATION STATUS

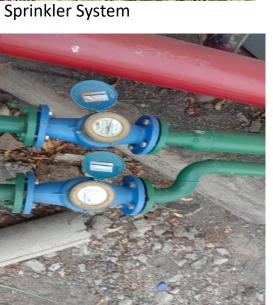


Drip irrigation System





Foot operated switch



Water Meters



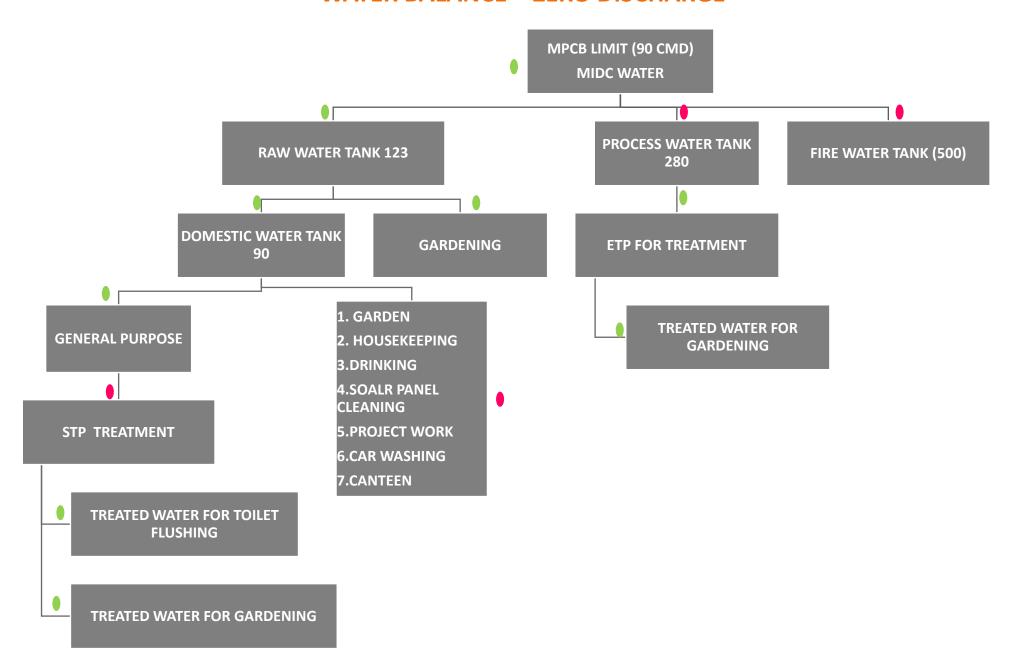
Rainwater harvesting tanks



Water saving taps



WATER BALANCE – ZERO DISCHARGE



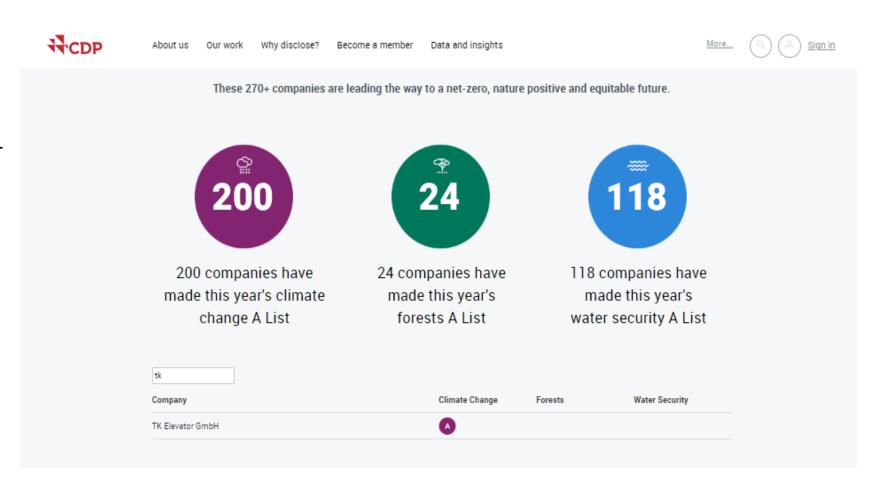


SPECIAL ACHIEVEMENTS - CDP "A" LISTED COMPANY

- ➤ A great news from CDP, TK

 Elevator are now certificated
 as "A" in the list based on our
 disclosure in 2021
- Only 200 companies got "A".







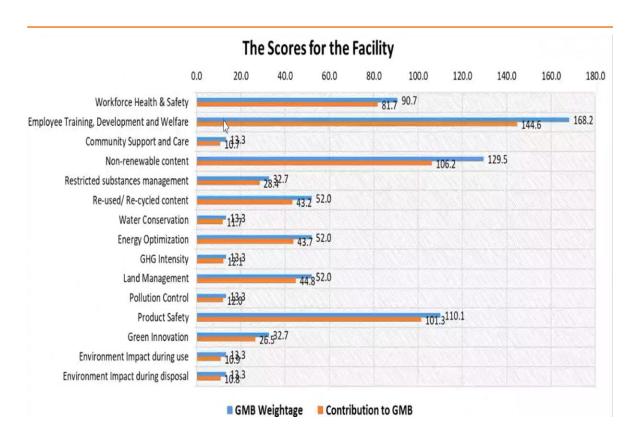
SPECIAL ACHIEVEMENTS- GOLD MEDAL AT INDIA GREEN MANUFACTURING CHALLENGE 20-21

Organized by IRIM

- TKE India has won this award for adoption of green manufacturing practices through training, evaluation and recognition at it's Multi-Purpose facility at Chakan, Pune
- TKE scored higher ratings on various key parameters such as Employee Training ,Development & Welfare; Non –renewable content; Product Safety; Workforce Health and Safety; Re-used and recycle content; and **Energy optimization**



Evaluation criteria





TK ELEVATORS AWARDS

TK Elevator wins "Maharashtra State Best Employer Brands 2021 Award"

TK Elevator has been bestowed with the prestigious "Maharashtra State Best Employer Brands 2021 Award". This award is hosted by the reputed Employer Branding Institute; World HRD Congress & Stars of the Industry Group.

The award has been conferred on TK Elevator in recognition of its remarkable efforts to develop a best-in-class workplace and promote an empowering and motivating work environment.

Mr. Manish Mehan, CEO & MD and Mr. Abhay Srivastava, HR Director, TK Elevator India received this award at the 16th Employer Branding Awards ceremony held at Taj Lands End, Mumbai on 27th August 2021.

As one of the leading German Brand, we work relentlessly to offer our diverse employee base the best of career options, learning and development opportunities, superior rewards and recognition, and life enriching initiatives.

With TK Elevator's, Employee Survey "Your Voice 2021", round the corner, our employees are given a great opportunity to make an impact and make our organization a even better place to work.



Mr. Manish Mehan and Mr. Abhay Srivastava with the award





TK Elevator has received "National Safety Award - 2020" from National Safety Council in Manufacturing Sector





AND THE JOURNEY CONTINUES...

MOVE BEYOND