Robust, **H**ighly Innovative**, I**ntegrated, **N**imble & **O**bsessed with Customers

Multi Category
Northeast Sourcing Unit

CII

SEPTEMBER 16, 2024

B&W

HUL – DOOM DOOMA

PRIDE OF ASSAM – TEA | RHINO | BIHU | BRAHMAPUTRA

Housing picnic on bank of Brahmaputra

Traditional Singpho team lunch

Tea plucking outside factory wall

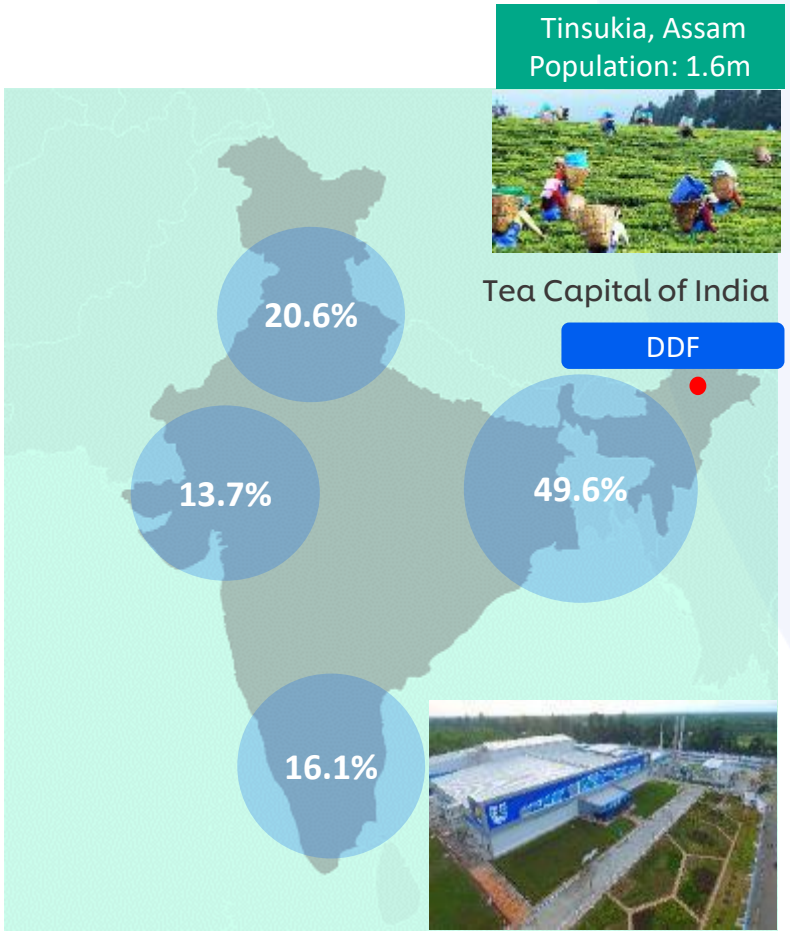
Bihu dance in RD guest house lawn

Unilever | Business Operations

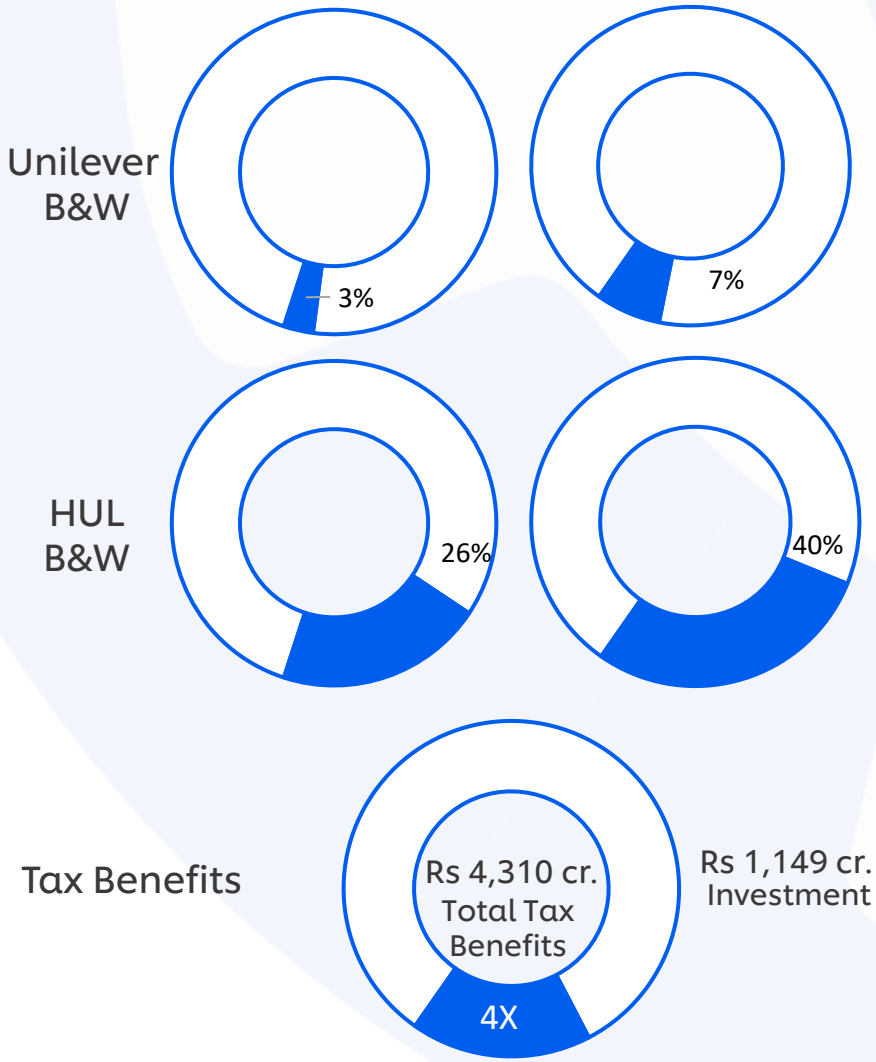
Factory amidst scenic tea garden !

ROLE OF DDF IN B&W NETWORK

DELIVERING DELIGHT THROUGH OUR PRODUCTS



FY 2023



SMALL C Turnover -2023

HISTORY OF DDF

22 YEARS OF ESTABLISHMENT

22years

Of glorious service in Tea town of Tinsukia.

2001

Setting up of **Unit 1 plant** with Shampoo bottles, Shampoo sachet and Cream tubes.

2003

Setting up of **Unit 2 plant** with Oral tubes manufacturing.

Setting up of **Unit 3** with Talc manufacturing.

2004

1st LTS signed amongst high internal and external disturbances.

Unit 1 extended with VPJ and Lotion setup.

2008

2nd LTS signed with new union post lockout.

TPM way of working kicked-off.

Saral warehouse constructed.

2009

Unit 3 setup for Talc closed and unit converted to Tea pilot plant.

RWH setup constructed in Unit 2 and admin facilities.

2013

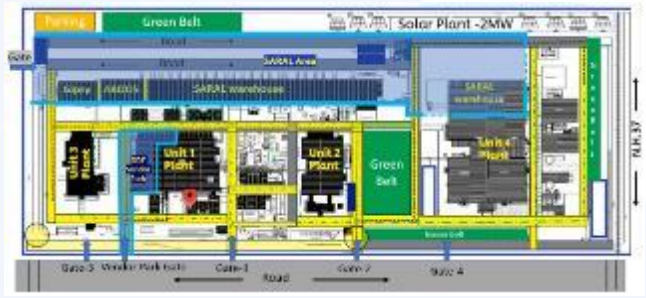
Unit 3 restructured to run Cream Tubes.

Unit 1 product portfolio limited to Shampoo Sachet and bottles.

Bus facility started for employees.

2017

Unit 4 Rhino plant setup with state of art machines producing Cream pouches, Tubes and Shampoo/ Lotion bottle lines.



2018

Site digital infrastructure was built and OPC server establishment.

Vendor park started with Alpla for bottle blowing.

2019

Factory awarded with CM award for best compliance factory in Assam.

2020-2023

2020 Unit 1 COVID capability to manufacture handwash.

Vendor park expanded with Abdos for Tube manufacturing.

2021 **2MW solar plant** commissioned.

IMeXi Gold award.

2022 **Future ready** FGI bottle line commissioned.

New Vendor park with increased capacity.

2023 **Suprabhat ITI** started.

AMR introduced at site.

UMS launched.

RWH Pond with 11000kL.

DTC and digi**DMC** started.

Factory Control Tower.

2024 Dark Cascade commissioned.

DEOC and DVOC started.

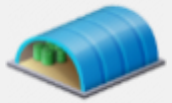
AI application in Utility

Unilever | Business Operations

FACTORY PASSPORT

SITE IN NUMBERS

Supplier



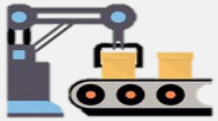
Inbound

624+ RM/PM
26+ Trucks

Manufacturing

Site

72 Acres
4 Units



Production

37 Packing Lines
21 Mixers
114 SKU

Warehousing & Logistics

Handling

72.5K Tons
5.7 Billion Units

Outbound

28+ Trucks

Sales

Turnover

Rs 4,009 cr.
(FY 2023)

ELEMENT	U4	U2	U1-3	TOTAL
Asset Base (GBV) – (Rs Cr.)	836	80	233	**1,149**
Asset Base (NBV) – (Rs Cr.)	553	37	104	**694**
Turnover- (Rs Cr.)	2,664	425	920	**4,009**
Manpower FTE	285	150	193	**628**
Volume 2023 (KT)	**32**	**10**	**30**	**72**

EMPLOYEE DEMOGRAPHIC DETAILS

EMPLOYEE COUNT

49 White Collar
628 Blue Collar

AVERAGE AGE

36 White Collar
43 Blue Collar

GENDER DIVERSITY

33.3% White Collar
1.3% Blue Collar

EMPLOYEE SKILLS

47% Technical
53% Non-Technical

UNILEVER HSE&S VERTICAL AND DOOM DOOMA FACTORY TEAM

SCHUMACHER HEIN
CEO

REGINALDO ECLISSATO
CDO

ROHIT JAWA
CEO, HUL

LAURA AMBROSE
C SHEO

YOGESH MISHRA
ED & VP, SC

TEJAL TYAGI
GM SHE SA

SUNDAR MAHAJAN
HEAD B&W

SNEH SHRIYANSH
CAT- SHE MANAGER, B&W

APOORVA SINGH
SITE DIRECTOR, DDF

BIKROMJIT TAMULY
UNIT SHE MANAGER,DDF

RAFIKUL RAHMAN
SHE EXECUTIVE, DDF

ASHISH BANSAL
SITE ENGG & Process Mgr

Rupsha Bhattacharya
Site Engg

ISHANI SARMA
MANEX EXECUTIVE, DDF

BITUPAN BHUYAN
UTILITY EXECUTIVE, DDF

SOMASHRI ROY
UTILITY EXECUTIVE, DDF

KIRAN BHAGORA
UTILITY EXECUTIVE, DDF

ENVIRONMENT: VISION AND OBJECTIVE

Unilever VISION

Be a WORLD class Excellence center in delivering outstanding safety results and Superior Quality products with world class service at an optimal cost pioneering in digital as a GLOBAL Multi-Category sourcing unit.

Make sustainable living commonplace – *The Unilever Sustainable Living Plan*

- ✓ **De-couple our growth from our environmental footprint**, while increasing our positive social impact
- ✓ **450 billion+** litres of water conservation potential created
- ✓ **47%↓** in carbon footprint vs 2008 baseline
- ✓ **30%↓** in plastic use vs 2010 baseline`

Doom Dooma Vision

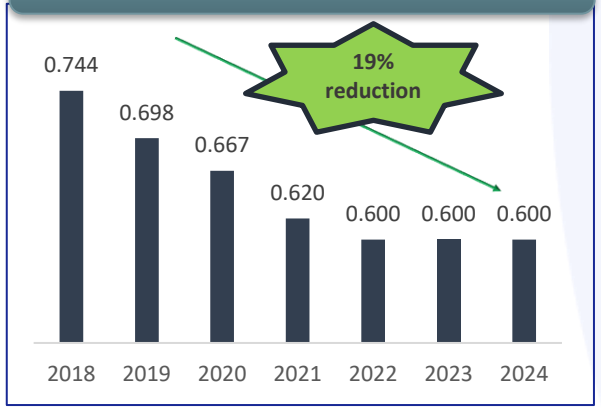
Having a brilliant Compliance , Eco-Efficient and Positive Impact on Environment.

Factory Objectives

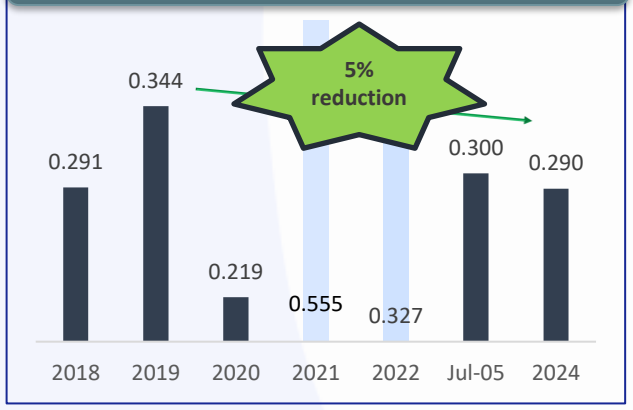
- **Till 2022 December**
  - ➢ 15% Electricity through Solar and , 70% of site fuel is now biomass
  - ➢ ZLD site, 30% process water Rainwater harvesting.
  - ➢ Zero waste to landfill site.
- **Road map till 2025 for becoming**
  - ➢ Net CO_2 Neutral – Zero non-renewable fuels (gas and HSD),
  - ➢ Becoming Water positive site (No net intake for process water),
  - ➢ Zero packaging waste.

ENVIRONMENT PERFORMANCE REVIEW (2018-2024)

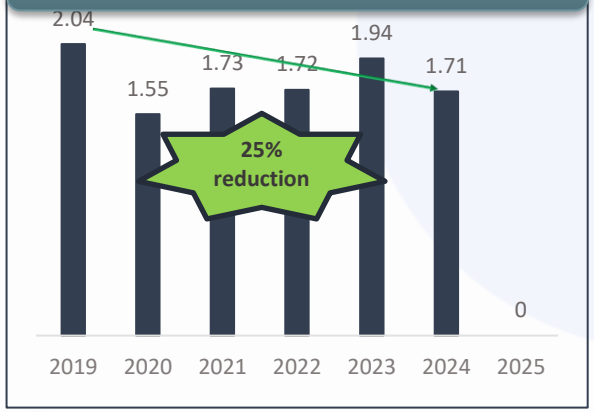
Grid Energy per ton (GJ / T)



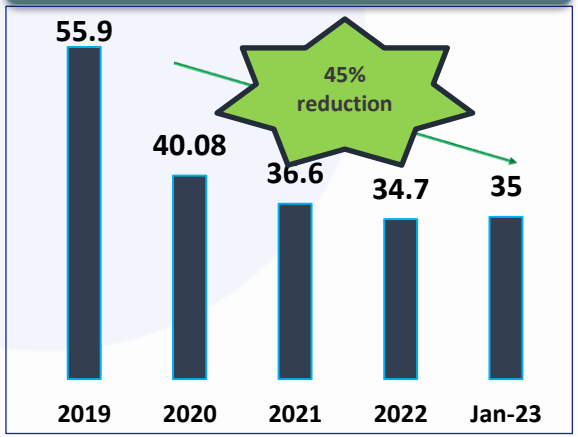
Natural Gas (GJ / ton)



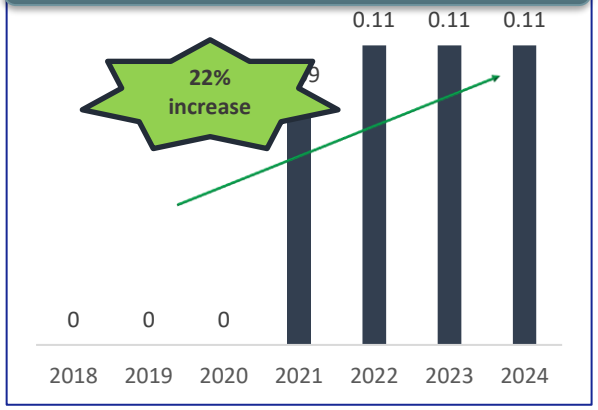
Groundwater (KL/Ton)



Waste (Kg/Ton)

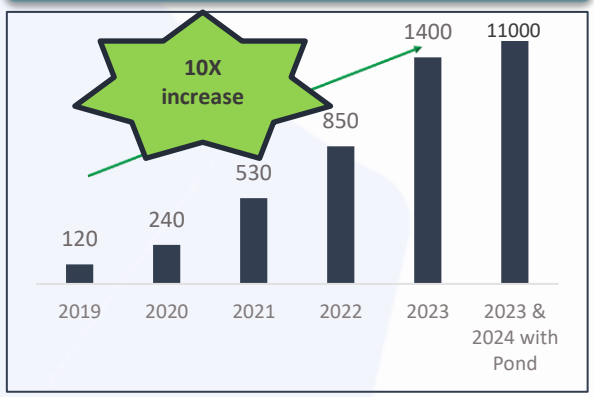


Solar Energy (GJ/T)

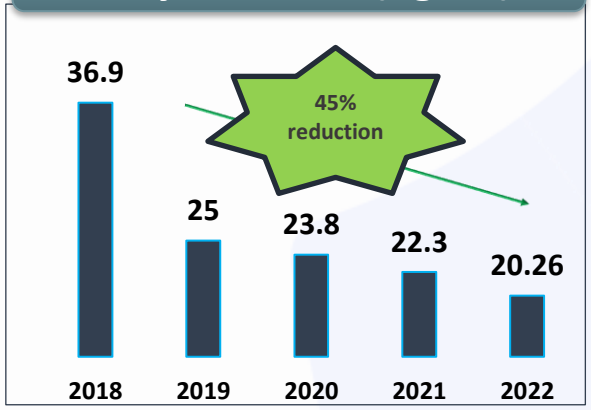


Carbon-dioxide (Kg / ton)

Rainwater Storage (KL)



Recycle Waste (Kg / T)



Energy

Savings: 10 Cr / annum

Water

Scope of 40k Tonnes of Volume Insourcing

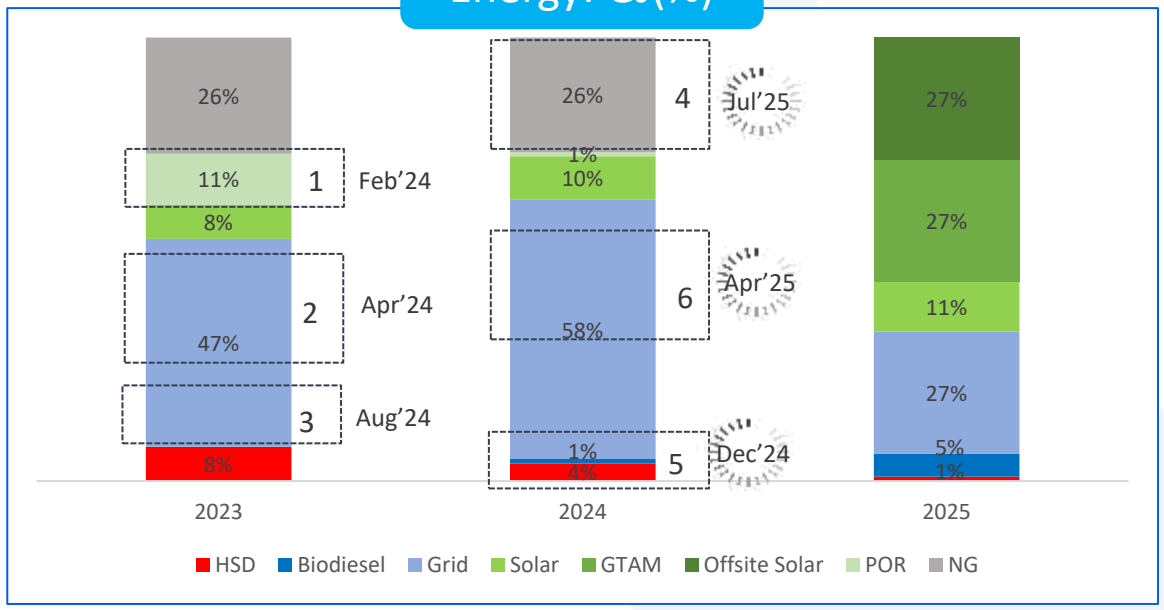
Waste

455 Tons

ENERGY ROADMAP 2025

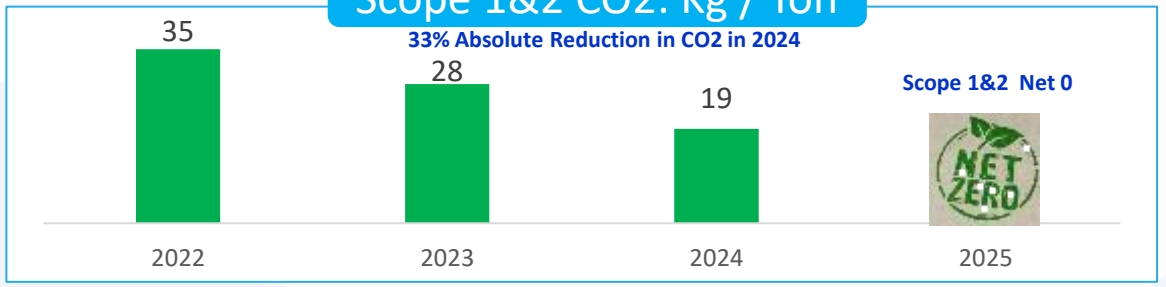
CARBON NEUTRAL JOURNEY – ELIMINATION OF NG & HSD BY 2025

Energy: GJ(%)



	Target	2023	2024	2025
Criteria 1: Scope 1&2 GJ as % of Total GJ	**<2%**	34%	30%	0.63%
Criteria 2: Scope 1&2 GJ	**<1000GJ**	33,289	22,412	394
Criteria 3: Refrigerant top up (T)	**<50T**	18	21	0

Scope 1&2 CO2: Kg / Ton



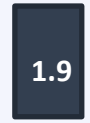
2024 DNS

Project 1 : **0 Waste Utility** - High COP Heat Pump from waste Heat Recovery | **Boiler Less Site Phase 1**
Savings – **1.7 Cr (FY 2.4 Cr)**
NG Elimination

Project 2 : **Next Practices**: AirNet + ATCS + Vacuum Pumps Consolidation) + HP LP Air Circuit + HWCW Consolidation + U1&3
Savings – **3 Cr (FY 3.8 Cr)**

Project 3: Low GWP Refrigerant based Magnetic Chiller
Savings – **0.3 Cr (FY 1.6 Cr)**
High GWP Refrigerant elimination

5 CR savings



2024 CV

Project 4: Modular Steam Generators for pure steam | **Boiler Less Site Phase 2**
NG Elimination

Project 5 : 100% Biodiesel in DGs
Savings – **0.3 Cr**
HSD Elimination

Project 6 : Offsite Solar & GTAM
Savings – **2 Cr (Assam Solar trading policy revision pending)**

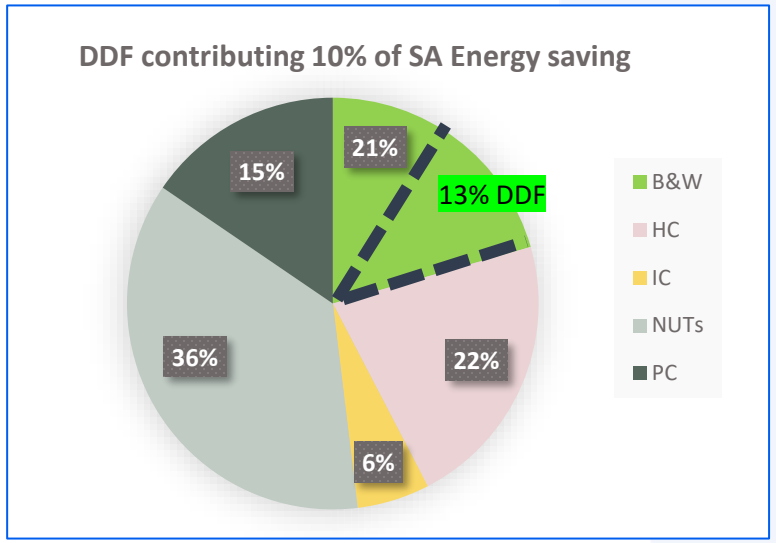
2.3 CR SAVINGS

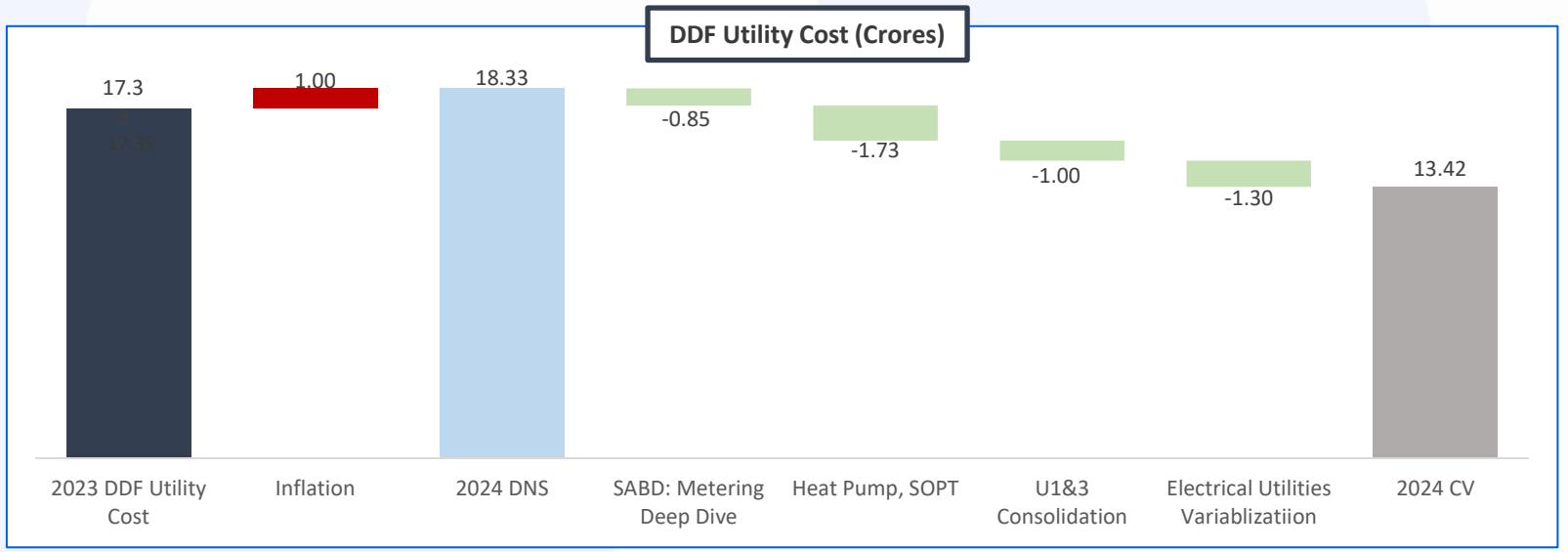
2025

Scope 3: 80% Reduction achieved in logistics through vendor park

NET PRODUCTIVITY – UTILITIES

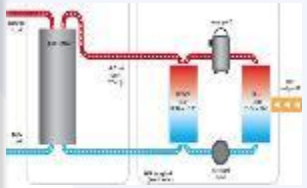
NEXT TECHNOLOGIES TO REDEFINE STANDARDS





	DDF	U1&3	U2	U4
2023 DDF Utilities Cost (Cr)	17.35	4.79	2.19	10.34
Volume	71691	30,342	9,862	31,487
2024 Utilities Cost (Cr)	13.42	3.03	1.94	8.42
Volume	65013	19203	10,106	35,704
Absolute Reduction %	-23%	-37%	-11%	-19%
Utility CPT Reduction %	-15%	0%	-14%	-28%

46% Absolute Thermal Bill Reduction – Rs 1.73 Cr



- Waste recovery-based heat Pump
- SOPT for high temp condensate recovery
- High efficiency economi

18% Absolute KWH Reduction – Rs 3.3 Cr

- ATCS: Automated chiller cleaning system

0.5 Cr

- IE5 Pumps
- Magnetic Chiller
- HWCW consolidation

0.9 Cr

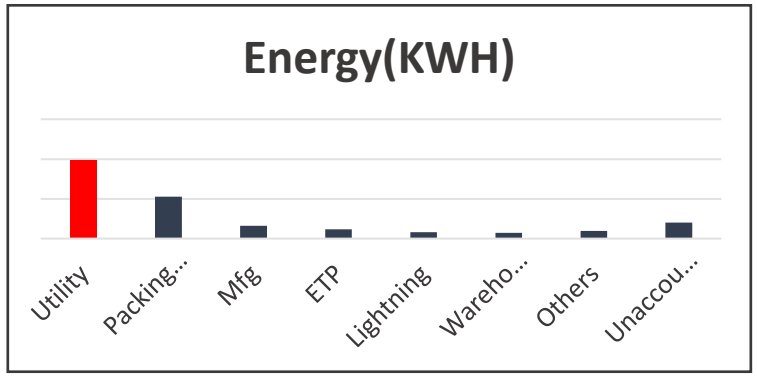
- Air Net
- HP LP Segregation

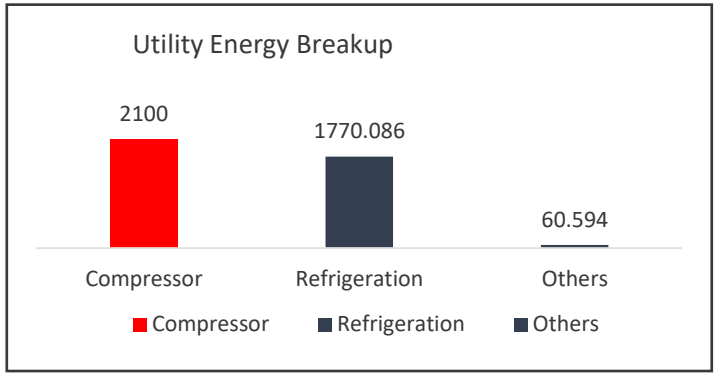
0.4 Cr

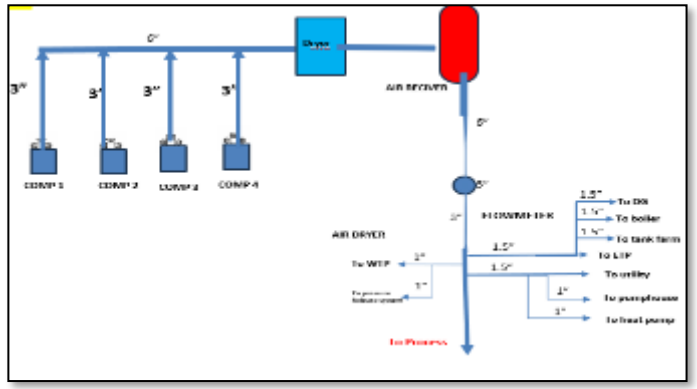
- U1&3 Consolidation
- 6 days operation

1.3 Cr

Enhancing Compressed Air System Efficiency - Actions from Generation to Distribution







GENERATION

Step-1 - Advance VFD+ compatible Compressor

Comnpressed Air cons @100 KW motor for 1hr

Capacity	500	CFM
Requirement	250	CFM/hr
time	2	hrs
Motor capacity	55	KW
	Before	After
Loading Time	1	2
Unloading Time	1	0
Energy cons during loading (KWH)	55	27
Energy cons during Unloading (KWH)	18	0
Total	73	27

The new revolutionary GA 75L-110 VSD* is packed with innovative features that increase its efficiency, cut its energy consumption, lower its noise levels, and reduce its operating costs. On top of that, it meets or even exceeds all currently applicable standards.

Step-2 – Cool Air intake

Heat Pump Installation next to compressor to provide cooler suction air

Cool air intake

As a thumb rule, *"Every 4°C rise in inlet air temperature results in a higher energy consumption by 1 % to achieve equivalent output"*. Hence, cool air intake leads to a more efficient compression (see Table 3.2).

TRANSMISSION

Step-1 – Inlet from Bottom, Outlet from Top

Step-2 – 5°C inclined header for moisture seperation

Step-3 – Ideal Process Flow Design

Dry receiver closes to highest consumption section
Even utility tapping taken after dry receiver header

DISTRIBUTION

Step-1 – Loss Because of Excess air pressure in Knematic cylinder

Description	.@5KG	.@6KG	UOM
Cylinder Bore	0.025	0.025	mtr
Cylinder stroke	2	2	mtr
no. of strokes	6	6	per min
Air cons.	8.7	10.4	CFM

Step-2 – Separate Air header for Mfg and Packing with different pressure setpoint

Enhancing Compressed Air System Efficiency - Actions from Generation to Distribution

GENERATION

Step-3 – FAD Testg for Compressor Delivery

$$Q = \frac{P_2 - P_1}{P_0} \times \frac{V}{T} \; Nm^3 / Minute$$

P_2 = Final pressure after filling (kg/cm^2 a)

P_1 = Initial pressure (kg/cm^{2}a) after bleeding

P_0 = Atmospheric Pressure (kg/cm^2 a)

V = Storage volume in m^3 which includes receiver, after cooler, and delivery piping

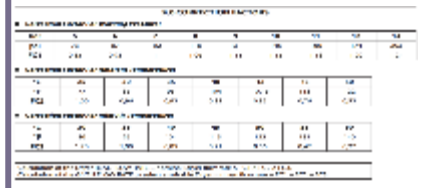
T = Time take to build up pressure to P_2 in minutes

P2	7.2	
P1	1	
P0	1	
V	2.1	M3
T	0.95	Min
FAD	506	**CFM**

- **Area should be clean as suction filter choking ill increase the power cons**
- **Proper PM schedule**

TRANSMISSION

Step-4– Right Dryer selection based on correction factor



Dryer capacity	800	800	CFM
Pressure	7	7	KG/cm2
Ambient temp	35	40	DegC
Inlet air temp	35	40	DegC
Dryer Capacity	736	598.4	CFM

Step-5 - Right selection of pipe dia to avoid transmission loss

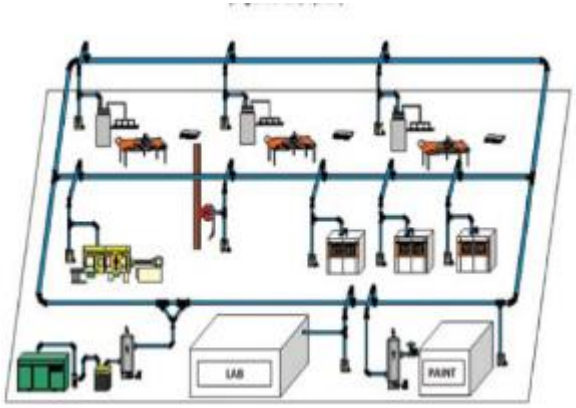
Table 3.11 Typical Energy Wastage due to Smaller Pipe Diameter for 170 m³/h (100 cfm) Flow

Pipe Nominal Bore (mm)	Pressure drop (bar) per 100 meters	Equivalent power losses (kW)
40	1.80	9.5
50	0.65	3.4
65	0.22	1.2
80	0.04	0.2
100	0.02	0.1

- For multiple Air dryer same concept can be applied of connections
- Dry air receiver should be installed near to plant
- Auto drain valve for all receivers

DISTRIBUTION

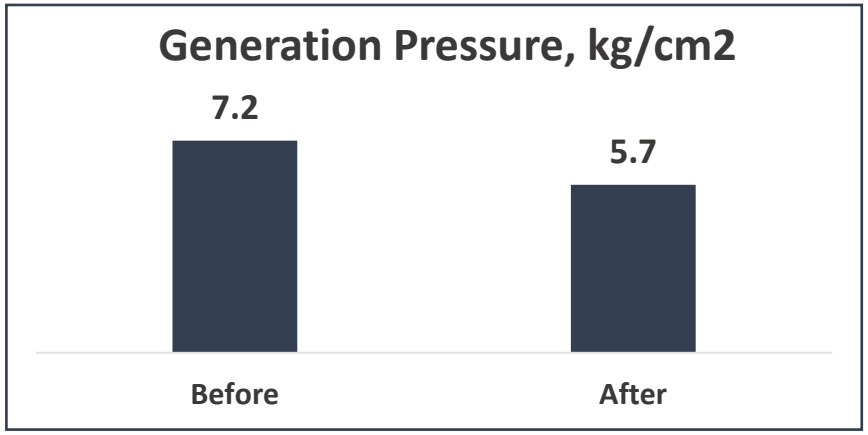
Step-3– Ring main Air header for packing hall

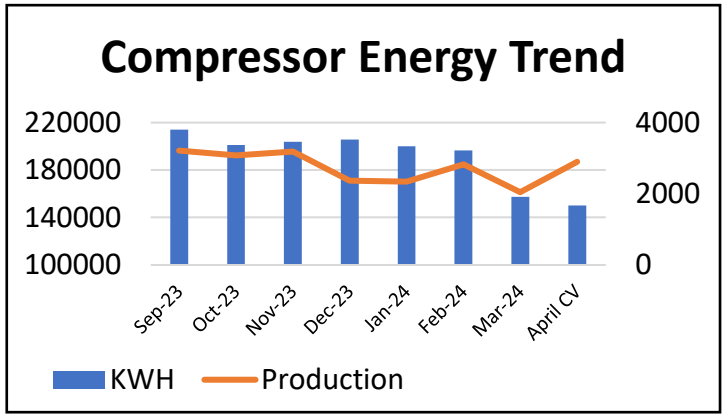


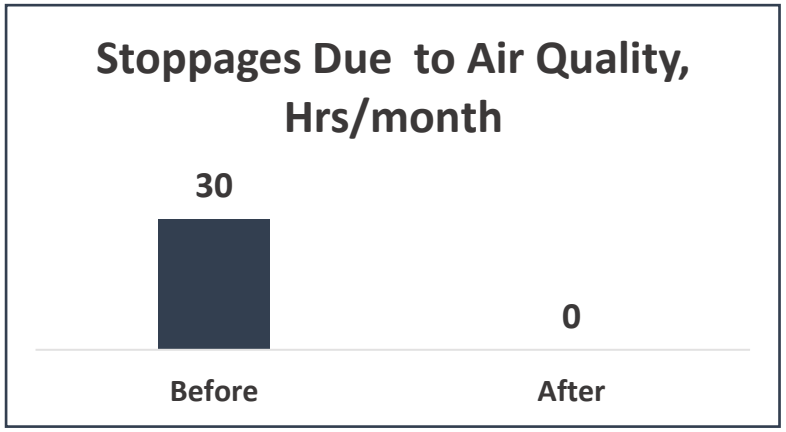
- Different size lines used to control differential pressure to manufacturing and packing from same header.

B&W

Enhancing Compressed Air System Efficiency - Actions from Generation to Distribution







Reading at Compressor

5.7

Reading at Receiver

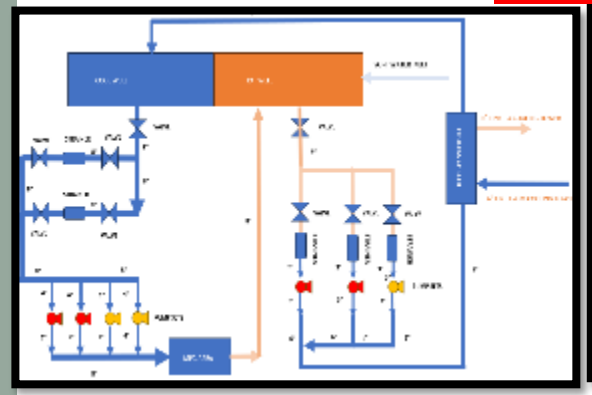
5.7

Reading at Machine

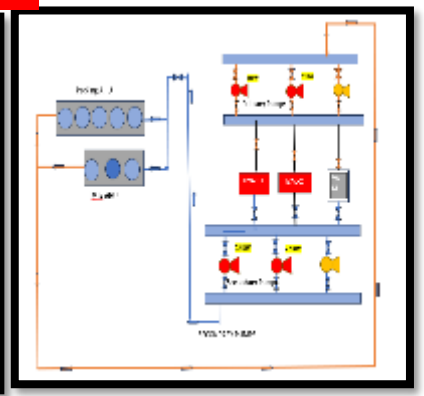
B&W

U4 UTILITIES - REFRIGERATION SYSTEM'S PERFORMANCE

BEFORE

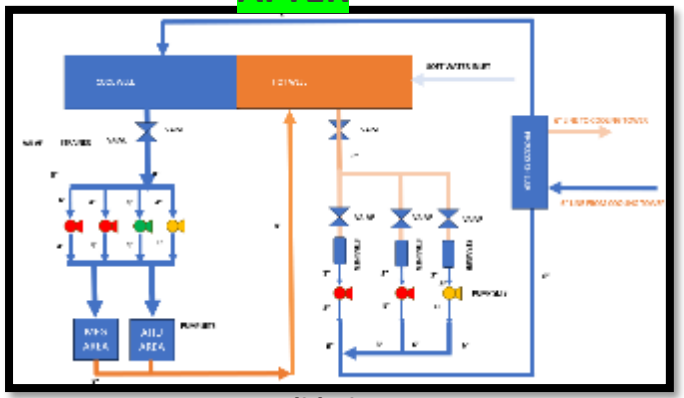


Existing Process Chiller Layout



Existing HVAC Chiller Layout

AFTER



Post Consolidation

Inhouse Redesigning Piping

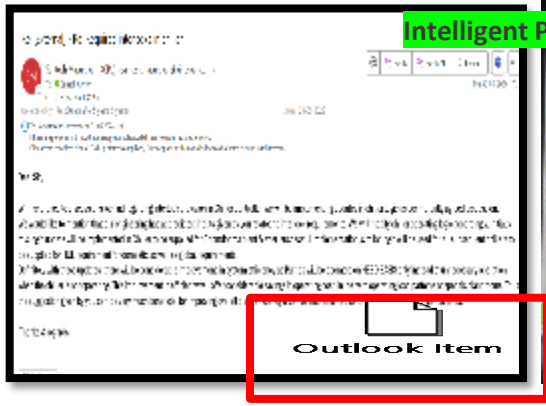
Cooling Tower Consolidation

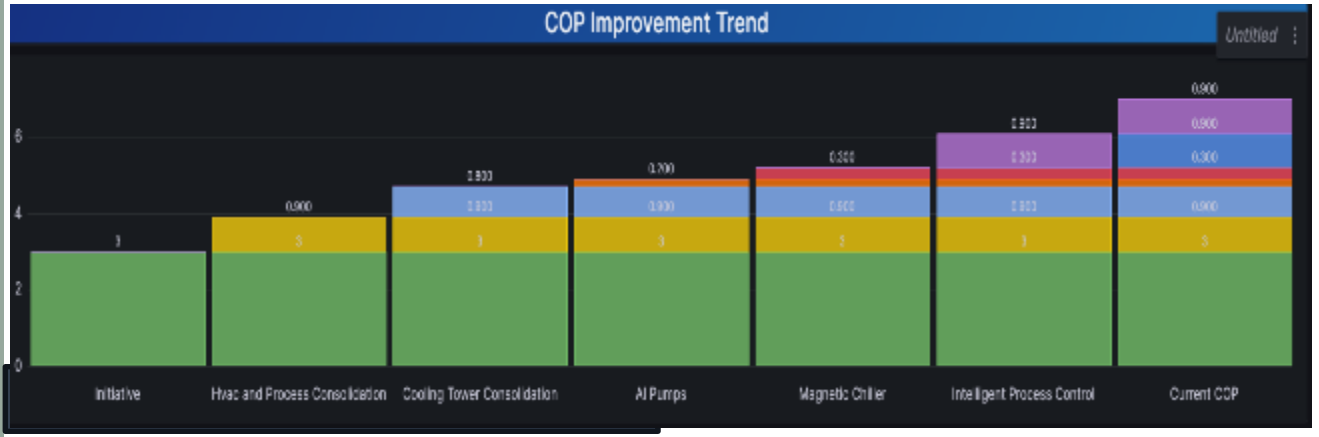
I5 enabled Highefficiency pump

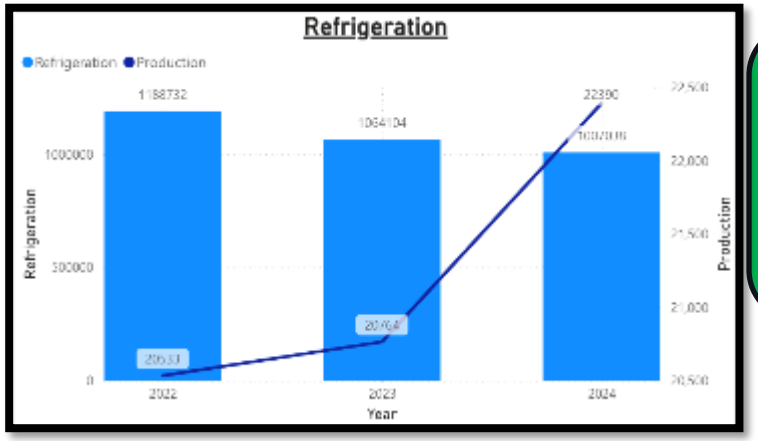
AI Pumps

Magnetic Chiller

Intelligent Process Control







- ✓ Annualised savings of Rs 70 lakhs
- ✓ Electricity savings of Rs 5 lakh KWH

OEM – ACCEPTANCE FOR TECHNOLOGY CHANGE EMAIL

From: Santosh Masurekar (KCPL) <santosh.masurekar@kirloskar.com>
Sent: Thursday, May 30, 2024 5:29 PM
To: Bansal, Ashish <Ashish.Bansal@unilever.com>
Cc: Nilesh Raut(KCPL) <nilesh.raut@kirloskar.com>
Subject: Re: [External] - Re: Required interlocks in chiller

Dear Sir,

With reference to discussions we had regarding interlock provision in Chiller controller,we will be implementing updates in chiller logic as per mutually agreed discussion.

We would like to mention that our engineering has appreciated inputs given by you related to interlock requirements. We will modify chiller operating logic accordingly. Initially this logic update will be implemented in Chiller to be supplied for Doomdooma plant & after successful implementation ,similar logic will be used for all subsequent chillers to be supplied for HUL requirement for domestic as well as global requirements.

Definitely with these updates ,there will be considerable improvement in system efficiency as Pumps will be operated on NEED BASIS only instead of unnecessary operation when the chiller is not operating. This improvement in efficiency will offer considerable savings in operating cost, inline with operating load patterns at specific plant rooms. Thus the suggestion given by you can be very much beneficial for improving overall plant efficiency & can be implemented for other chillers too for similar benefits.

Subject: Intelligent Process Control - Major Breakthrough in Chiller Efficiency Achieved through ! - FIRST FOR ANY COMPANY GLOBALLY

Dear Sirs,

We're excited to share with you a significant development that will lead to **major cost savings of 25 lakhs INR (30k Euros) annually in our chiller operations** with **Zero cost**.

Through a collaborative effort with the Kirloskar team, we've successfully modified the internal operational logic of our chillers, which is **first of a kind for any chiller Globally as confirmed by Kirloskar team** [New logic acceptance Mail appended].

This is achieved through **real-time Intelligent Process Control** system being inbuilt in Chiller itself.

Current System Inefficiency:

In the current system, both the evaporator and condenser pumps (200 TR - 18.5 kw condenser and 11 kW for evaporator) operate continuously, even when the chiller is under unload.

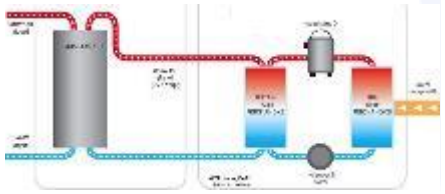
While this ensures the chiller can sense and respond to increased cooling demands, it also leads to unnecessary energy consumption during periods of low activity.

OTHER INITIATIVES: VARIABALIZED UTILITIES

DRIVING BUSINESS GROWTH THROUGH BOTTOM LINE IMPROVEMENT ACROSS B&W NETWORK

THERMAL

PASTEURIZATION



- Waste Recovery Based Heat Pumps for hot water generation process
- Complete Boiler Elimination – 5 ton boiler switched off
- 27% Absolute thermal bill reduction achieved July YTD

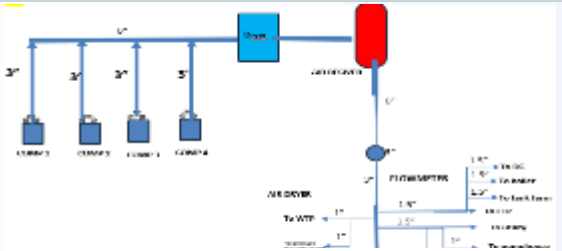
STEAM FOR MELTING APPLICATION

SOPT: Manuf. pressure changed from 3.5 bar to 1.7 bar

High Efficiency Economizer for >80C condensate recovery

ELECTRICAL

COMPRESSOR

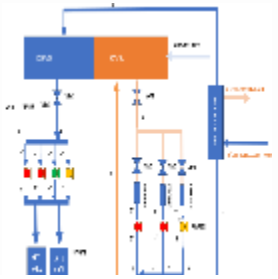


HP LP Segregation: Set point changed from 7.1 to 6.1

Airnet installed

CHILLERS

ATCS installed



IE5 Pump with consolidated HWCW operations

Magnetic Chiller COP 8

VACCUUM PUMP

Consolidation of packing Vacuum Pumps

ETP

AI based ETP Operations

ZERO WASTE UTILITY

This Singapore tech company says its recycling 90% of waste heat from Bitcoin mining

Godrej & Boyce reduces carbon footprint with innovative heat recovery system

Waste Heat Recovery System Market to Worth USD 127.2 Billion by 2030 | Skyquest Technology

Waste Recovery based Heat Pump

Air Compressor Heat Recovery

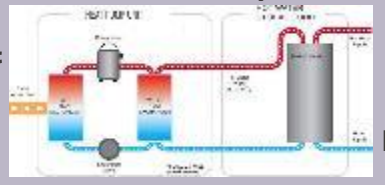
Centralized Vacuum Pump Heat Recovery

Cooling Tower Heat Recovery

SOPT for high temp condensate recovery

Heat Pump

50% reduction in cost of heating wiz-a-viz boiler, to make pasteurized water



70% of Boiler Elimination

Waste Heat Turbine

Cooling Tower exhaust air waste based Heat Recovery to generate electrical power

AI Based waste alerts & autonomous decision to suggest energy strategy

Electrical

- Onsite Solar
- Wind Turbine
- Power trading: GTAM & Offsite Solar
- Biofuel, Grid
- HSD

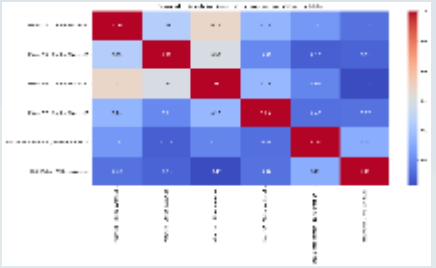
Thermal

- Waste recovery
- Heat Pump
- POR boiler
- Electrical heat Pump
- Modular steam generator, Biofuel
- NG

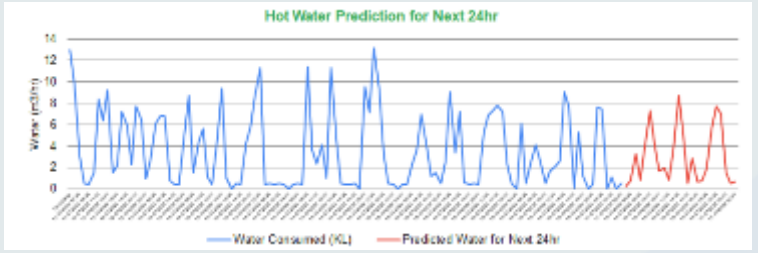
AI Maximize **Optimize** **Avoid**

Potential of 40%-60% Waste heat recovery

AI Based Demand Supply Mismatch Mitigation

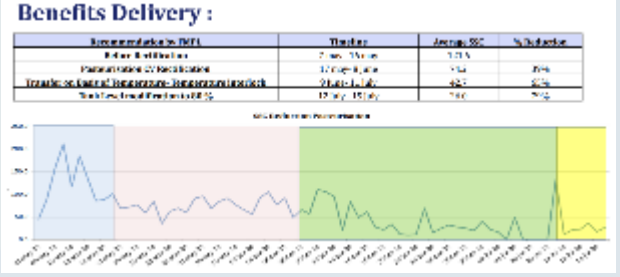


Basis forward planning of mixer, we predict requirement of various utilities like hot water & steam. Basis this the readiness level of these systems get balances to optimize cost



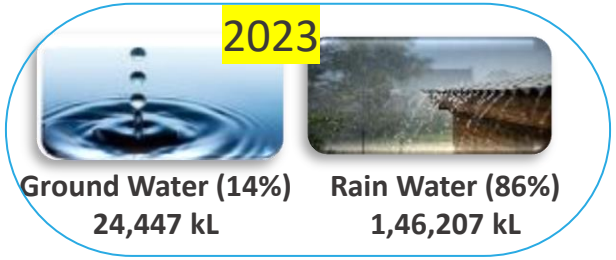
Recommendations:

1. Level of 25 Kl tank with predicted process demand
2. Heat Pump running status basis COP benefit analysis
3. Flow rate of recoveries

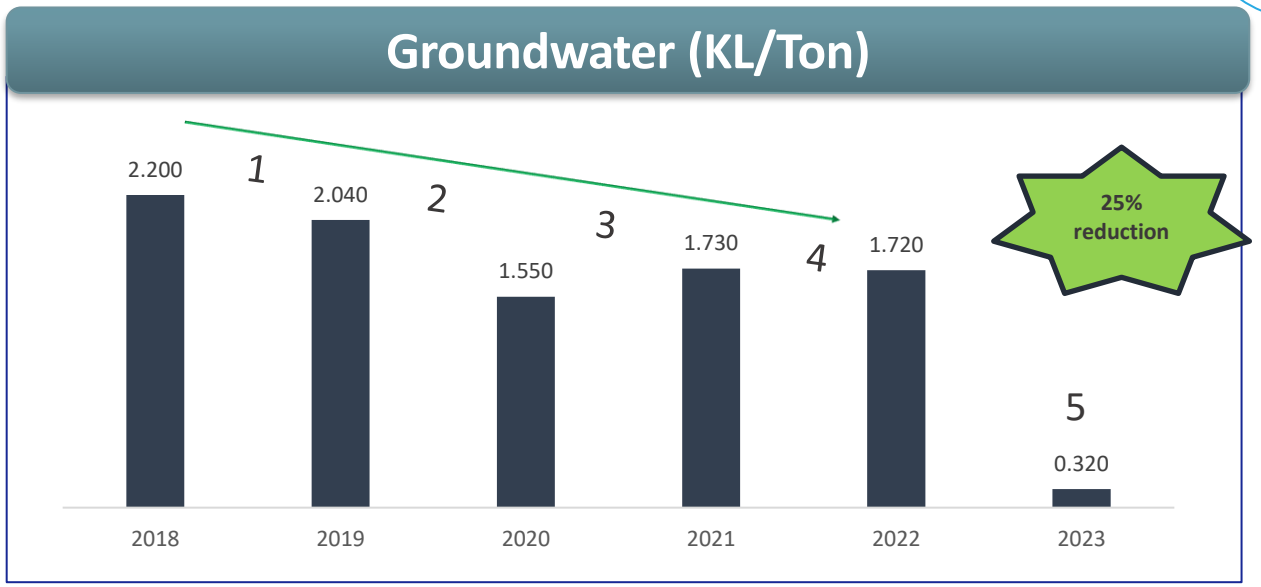


WATER ROADMAP 2020 - 2023

30% RAIN WATER HARVESTING TO WATER POSITIVE FOR NON PROCESS WATER
ZERO LIQUID DISCHARGE SITE



Groundwater (KL/Ton)



Project 1: SABD:
- Reusing ETP treated water for ETP incoming effluent dilution
- Reusing RO rejected water for toilets flushing
- Arrested multiple minor and major water leakages points and overhead tanks overflowing

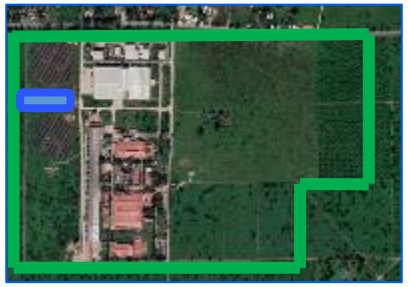
Project 2: Rain Water Harvesting: Complete roof top cover
Project 3: IOT based Closed loop water monitoring and daily tracking
Project 4: Changeover Playbook
Project 5: DDF Pond

Savings
70k KL water

DDF Pond

Product Water: 57%
Process Water: 43%

Scope of 3x increase in Rainwater Harvesting to be net positive for non product water



1 lakh Litre water required, 5000 KL storage capacity
Sufficient area present to safely execute plan

NET PROCESS WATER POSITIVE SITE: A STEP TOWARDS WATER POSITIVITY

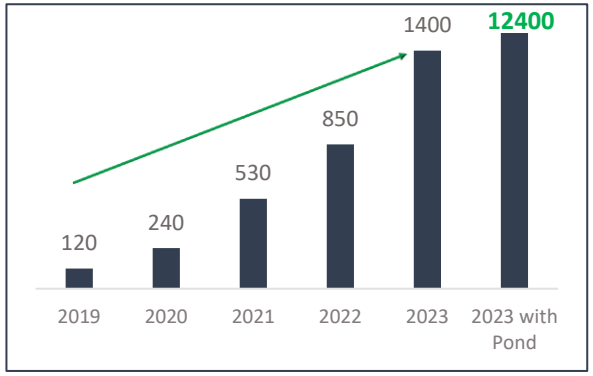
1.2 LAKH KL RWH POTENTIAL CREATED | RWH - 52% 2023 VS 14% 2022

*** [PCP & eMOCS under closure]*

Water Storage: DDF Pond

11000 KL Pond water storage created: **10X increase from 2022** ✓

Rainwater Storage (KL)



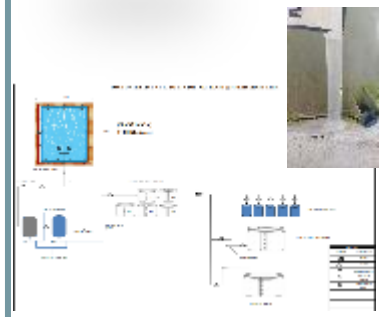
Necessary to increase storage

Water Collection & Transmission

Collection Source & annual capacity

1. Rooftop RWH: 72k KL ✓
2. Solar Panel 2MW: 18k KL ✓
3. Pond: 6k KL ✓
4. ETP Reuse: 21k KL Q3

Total: 1.17 lakh KL



Water Transmission

1. ETP U4 ✓
2. Soft Water Circuit U4 ✓
3. Central Soft water Circuit ✓
4. Overflow lines connection Q3
5. RO plant inlet & Outlet

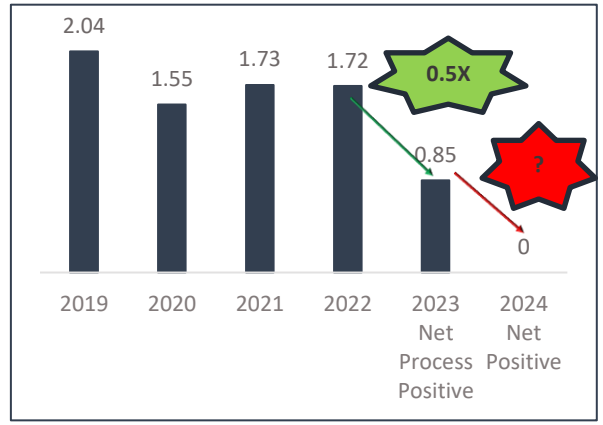
Max Usage: 0.74 lakh KL

Product Water & CIP: 0.93 l KL	Soft Water 0.54 l KL	Portable Water 0.2 l KL

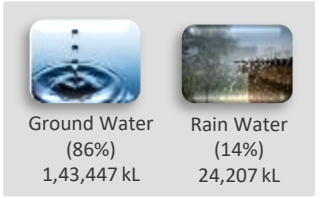
Net Process Water Positive in SH'23!

Results & Way Ahead

Groundwater (KL/Ton)

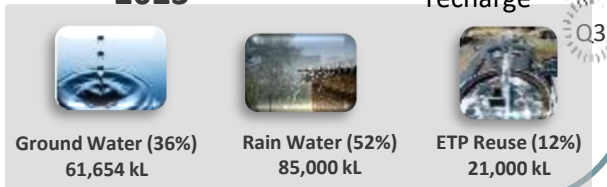


CURRENT



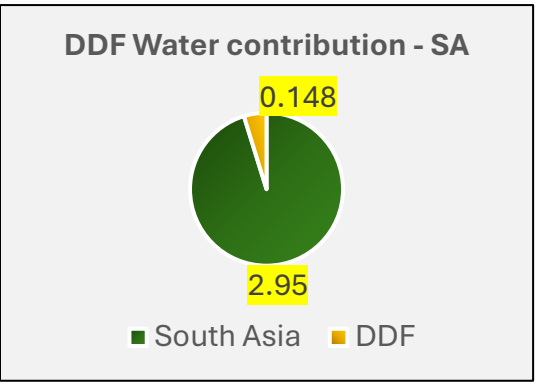
1. PCP for Product water: 0.43 l KL: All learnings from Amli incorporated
2. 7 acres surface catchment to be increased for rem 0.5 l KL
3. OR Ground water recharge

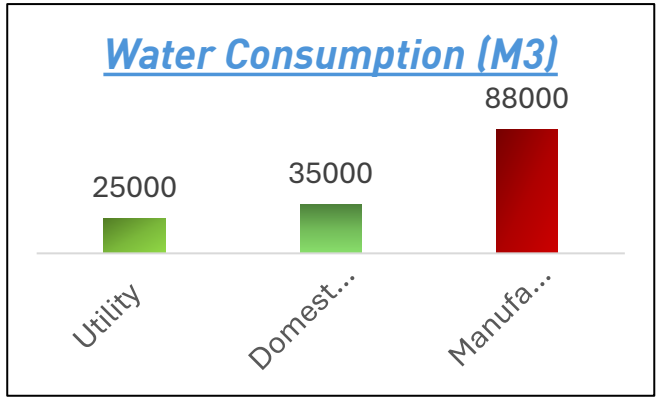
2023 Q3

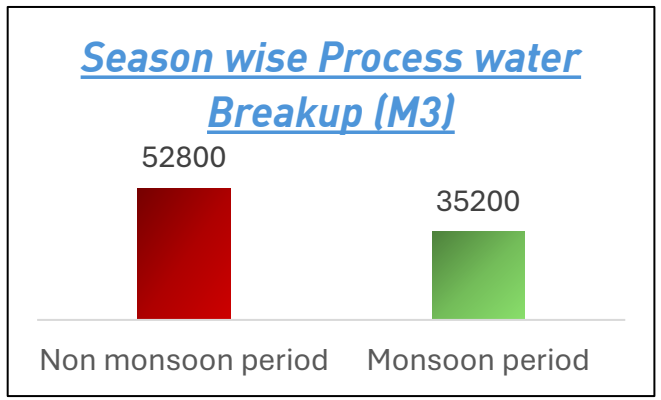


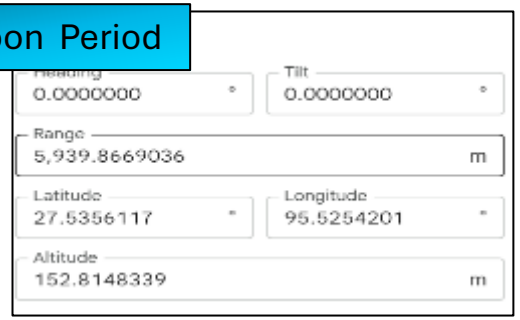
Next Practice: 20+ new water meters ordered. Real Time AI-based water consumption & harvesting forecasting to be better prepared logistically and utilize all water

Groundwater Recharging Project



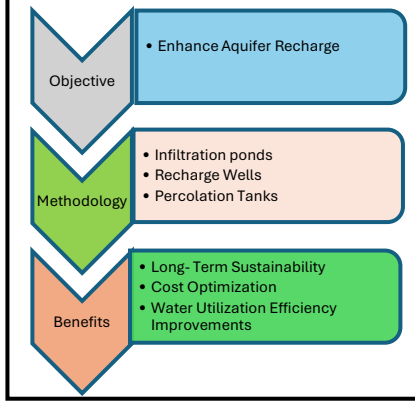


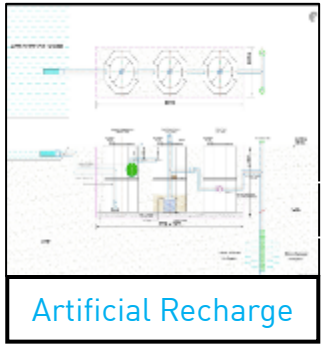


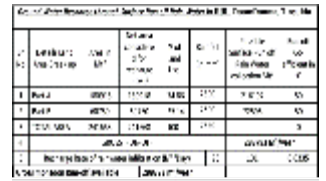


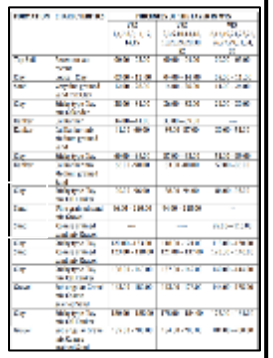
Total Land Potential - 3.75 KM2
Current area identified – 0.07 Km2
GWR potential - 10000 KL

Groundwater Recharging Technology

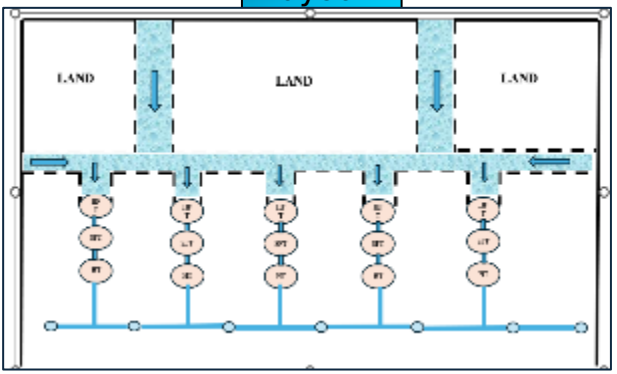








Layout



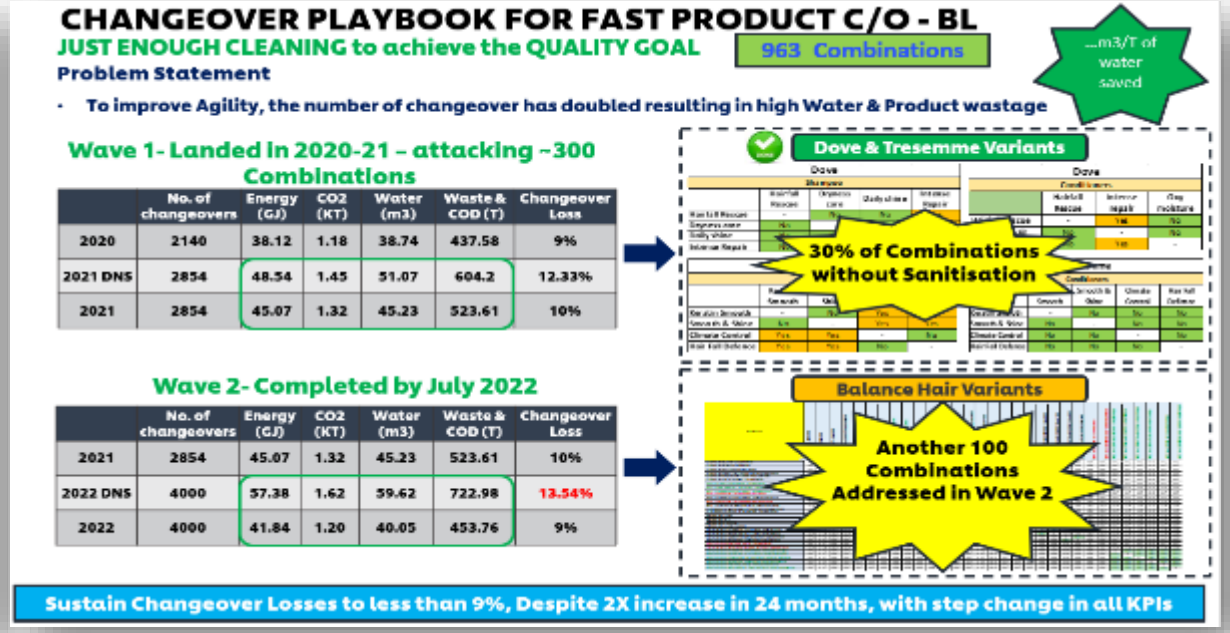
Site Implementation

Way Forward -Doom Dooma Tea garden's

Annual potential of 30 M -M3 an overall Net Zero for HUL South Asia

RAINWATER HARVESTING

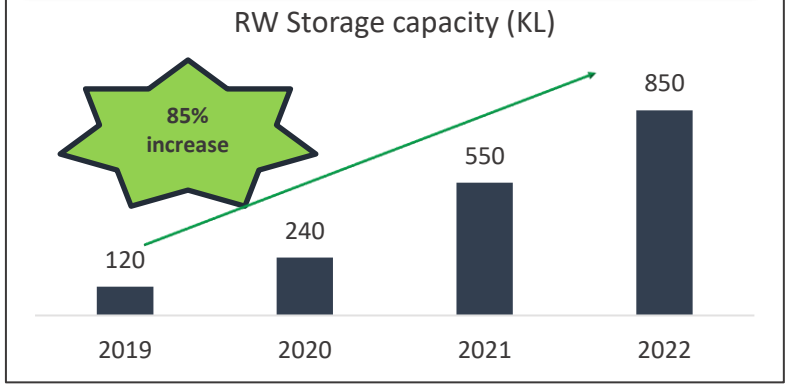
CHANGEOVER PLAYBOOK



	No. of changeovers	Energy (GJ)	CO2 (KT)	Water (m3)	Waste & COD (T)	Changeover Loss
2020	2140	38.12	1.18	38.74	437.58	9%
2021 DNS	2854	48.54	1.45	51.07	604.2	12.33%
2021	2854	45.07	1.32	45.23	523.61	10%

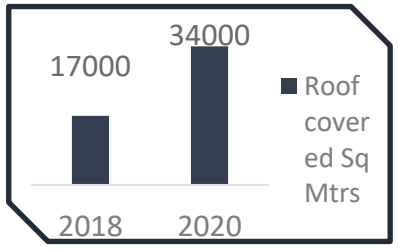
	No. of changeovers	Energy (GJ)	CO2 (KT)	Water (m3)	Waste & COD (T)	Changeover Loss
2021	2854	45.07	1.32	45.23	523.61	10%
2022 DNS	4000	57.38	1.62	59.62	722.98	13.54%
2022	4000	41.84	1.20	40.05	453.76	9%

Rainwater Storage Capacity



73%

Rain water realisation of Roof water covering 34k Sq meter - Achieved



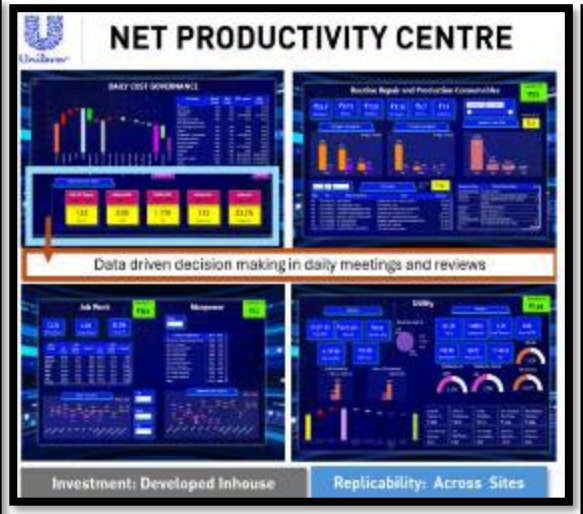
70% of Roof Area is connected to RWH

IOT CLOSED LOOP WATER MONITORING

DAILY COST GOVERNANCE

DATA DRIVEN DAILY COURSE CORRECTION

Factory Control Tower



Net Productivity Centre
Conference Room

Plant Control Tower

Sachet Control Tower

Utility & Engg Control Station

FGI Control station

Manufacturing

Quality Station

UNILEVER'S GREEN POLICY

The Environment Policy

- Ensure safety of product and environment
- Complying to all legal standards, EMS
- Assess environmental impact, aim for continual improvement
- Implement 5R
- Involve all employees
- Encourage suppliers and co-packers
- Disseminate good practices to government
- Ensure systematic risk assessment for env impacts
- Documentation for process handling
- Treatment techniques for wastes from new products

SUPPLY CHAIN MANAGEMENT: UNILEVER'S BRANDING

UNILEVER SUSTAINABLE LIVING PLAN (USLP)

IMPROVING HEALTH AND WELL-BEING FOR MORE THAN 1 BILLION

By 2020 we will help more than a billion people take action to improve their health and well-being.

- Health & hygiene
- Improving nutrition

We are taking action on the UN Sustainable Development Goals

REDUCING ENVIRONMENTAL IMPACT BY HALF

By 2030 our goal is to halve the environmental footprint of the making and use of our products as we grow our business.*

- Greenhouse gases
- Water use
- Waste & packaging
- Sustainable sourcing

We are taking action on the UN Sustainable Development Goals

ENHANCING LIVELIHOODS FOR MILLIONS

By 2020 we will enhance the livelihoods of millions of people as we grow our business.

- Fairness in the workplace
- Opportunities for women
- Inclusive business

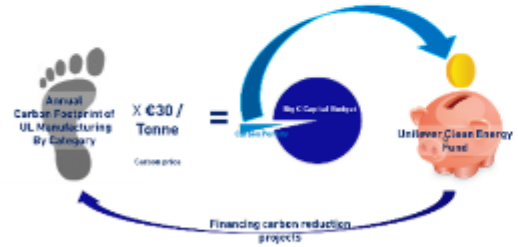
We are taking action on the UN Sustainable Development Goals

GREEN SUPPLY CHAIN MANAGEMENT POLICY

Budget Allocation

- Through financial justification (Internal Rate of Return >33% over 3 years)
- Unilever Clean Energy Fund

Unilever Clean Energy Fund



~ 5-10% of Turnover invested in sustainability projects

Our Policy

- Policy displayed in local language at various locations
- Policy approved by central committee
- Regular communication of the policy to ensure good level of awareness among employees

EMS – Environment Management System Pyramid

Road map till 2025 for becoming

- Net CO_2 Neutral – Zero non-renewable fuels (gas and HSD) + Boiler Less Site
- **Becoming Water positive site (No net intake for process water)**
- Zero packaging waste.

We Take Pride In Saying!

No. of trees equivalent to CO_2 reduction Achieved - 1,00,000 Trees

No. of LED lights that can be lighted up with KWH reduction - 50,000 Nos

Km travel savings achieved with in housing projects - 4 times of India perimeter

Water saving achieve in terms of Drinking water - 20,000 member

2018

Leed Certification for Green Manufacturing Building by US Green Building Council(USGBC)

2019

Winner of Factories Act Compliance Award 2019 by Labor Welfare Dept., Govt. of Assam

2021

Winner of India Green Manufacturing Challenge 2021 by the International Research Institute for Manufacturing

Gold Award in Greentech Safety Excellence Award 2021 by Greentech Foundation

THANK YOU!

2022

Gold award in Greentech CSR Award 2022 by Greentech Foundation

Winner of CII Best Energy Efficient Awards in Large Sector 2022 by Confederation of Indian Industry

2023

Gold Award in OHSSAI, Sustainability in Large Sector 2022 by OHSSAI Foundation

Unilever | B&W

RECOGNITIONS FOR DDF IN 2023 - 24

H1'23

Sustainability Award by OHSSAI Foundation

Best Safety Kaizen in Business Group Kaizen Championship

Safety Excellence Award by Greentech Foundation

Winner of Business Group Kaizen Championship

H2'23

Prabhat Best Factory Award & Winner in Nutrition Category

Runners up in South Asia Kaizen Championship

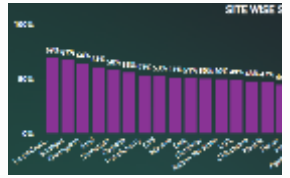
Runners up in SMED+ South Asia

IR 4.0 Smart Operations Award by FICCI

IR 4.0 Certificate for Good practices in Digital System

Global UMS Award for Best-in-Class OEE B&W and PC

2nd Highest Blue Collar Safety Engagement in SA



Highest Digital Master Apps adoption in SA

H1'24

CEO Safety Award

PCWR Award by Greentech Foundation

THANK YOU!