



# CORPORATE SUSTAINABILITY REPORT 2020

[utacgroup.com](https://utacgroup.com)

UTAC Headquarters: 22 Ang Mo Kio Industrial Park 2, Singapore 569506





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# MESSAGE FROM THE CEO

2020 was a busy and challenging year with the COVID19 outbreak and semiconductor market uncertainty. The management team reacted promptly to address the spread of the pandemic and put in robust preventive and mitigation systems in place to protect the workplace and our employees. Overall, we experienced no impact to our operations and employees. Along with the overall semiconductor market, our business grew significantly.

Despite these challenges, I am happy to report that we have achieved our CSR goals. It reflects our continuous commitment in creating values as well as a healthy and robust environment for the stakeholders and communities even during the most challenging of times. We place a strong emphasis in continuously developing, reviewing and improving our sustainability programs. High level of corporate governance and business ethics form the fundamentals of our growth and development. Responsible business practices are implemented across our global footprint.

Our approach to sustainability is centered on identifying and managing potential environmental impact through initiatives aimed at maximizing energy efficiency, effective resource management,

and reducing carbon emissions. In addition, we adhere to all relevant local and international regulations, standards, guidelines and practices. We have established robust, systematic monitoring and management for business sustainability and continuity.

Our CSR policy is aligned with Responsible Business Alliance (RBA) Code of conduct and international principles to promote environmental responsibility, a safe workplace, and ethical business conduct. Group wide CSR policy and commitment statements are regularly communicated to our employees. We regularly monitor and conduct audits of our sustainability performance to ensure compliance and identify opportunities for continuous improvement.

In 2020, we received several CSR awards for community support initiatives and programs from local governments in Thailand, Singapore, Malaysia and Indonesia. These are testaments to our continuous commitment towards Corporate Social Responsibility.

**Dr. John Nelson**  
*President and Chief Executive Officer*





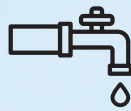
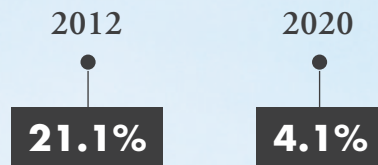
# 2020 ACHIEVEMENTS AT A GLANCE

*"Since 2012, significant improvement achieved since CSR program inception.*

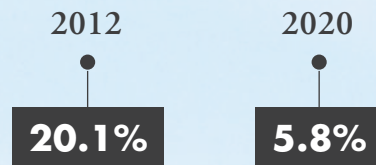
*In 2020, we exceeded all our key CSR KPI metrics."*



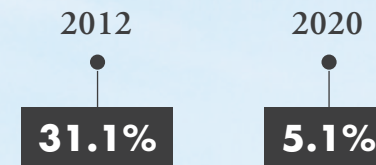
## Electricity Reduction (kWh)



## Water Reduction (m³)

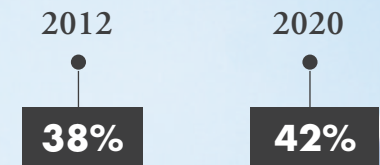


## CO<sub>2</sub> Footprint Reduction



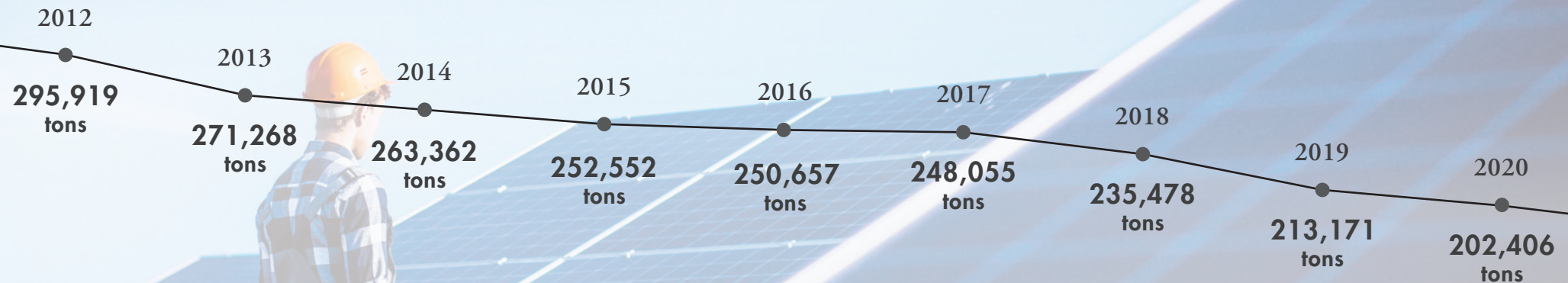
## Water Recycling & Reuse\*

*\* Water Reuse in 2020 only*



## CO<sub>2</sub> Emission Reduction 2012 – 2020

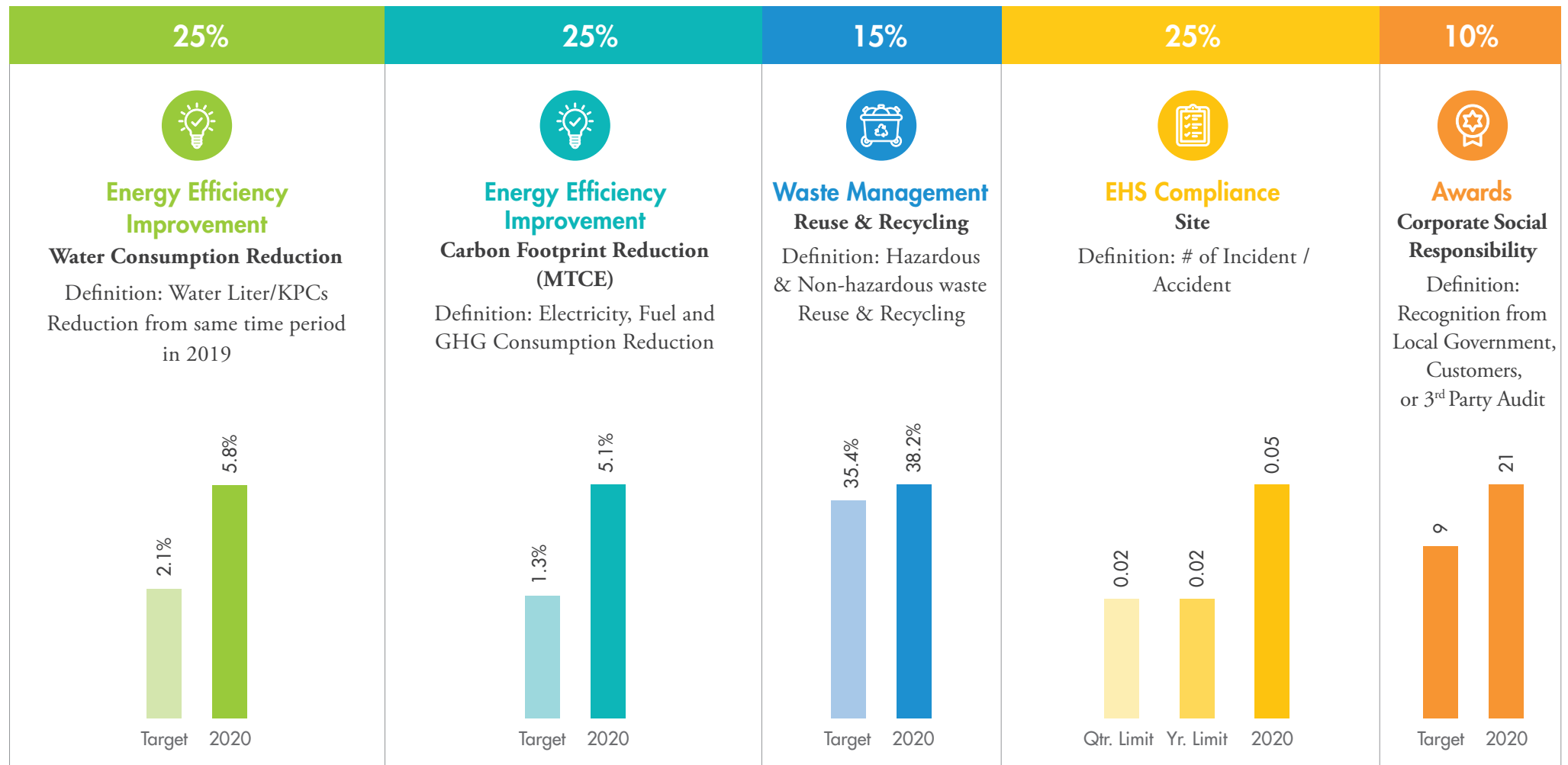
*Reduced CO<sub>2</sub> admission every year since 2012*



# ACHIEVEMENTS AT A GLANCE

UTAC exceeded all its key CSR KPI metrics in 2020.

UTAC sustainability performance KPI and performance goal for CY2020



# ACHIEVEMENTS AT A GLANCE

*Dedicated capital investment in 2020.*



UMY – Optimizing dryer system operation.



UID – Installation of VSD in cooling system.



UTL – Solar roof project (images above and below).



## Projects

 Solar cell project to reduce carbon footprint

 Chilled water plant efficiency improvement

 High efficiency LED Replacement

High efficiency LED replacement for streetlight

Reuse reject of RO in Recycling system & D.I. System

Replace high efficiency water pumps

Replace high efficiency chillers

Replacing old vacuum pump with high performance screw vacuum pump

Optimize Vacuum pump running program

Reduce CDA pressure from 6.5 bar to 6.0 bar

Warm-shutdown activity to reduce electricity

Replace RO membrane to reduce brine water reject

Install VSD at motors and pumps

USG Consolidation

 New Initiatives in 2020

Total Expenses: **US\$9.6M**



# ACHIEVEMENTS AT A GLANCE

UTAC is aligned with the climate change strategy by Industrial Sustainability Strategy (ISS) European 2021.



## ENERGY CONSUMPTION / EMISSION REDUCTION

Achieved 30.6% CO<sub>2</sub> reduction by 2020; and cut additional 15% over 2020 level by 2025

*Remarks: UTAC CSR performance and asped (Goal) is standing a bit aggressive*



## RENEWABLE ENERGY

Install renewable (solar) power in UTL; and 100% LED lighting replacement in all other sites

*Remarks: UTAC has less unavoidable emission (Greenhouse gases) USG1*



## COMPENSATE THE SMALLEST PART BY CERTIFICATES

Pursue supply stabilisation and energy efficiency by developing sites

*Remarks: UTAC ensure supply chain continuity is a priority*

UTL – Solar roof project.



# ACHIEVEMENTS AT A GLANCE

## 2020 CSR Recognition and Awards.

- UTAC's sustainability programs are guided by the Responsible Business Alliance (RBA) framework.
- Their efforts have been recognized by international organizations such as the Environmental Management System (EMS) and the Occupational Health & Safety Advisory Services (OHSAS).
- UTAC received a new group-wide safety certification in 2020 — ISO 45001.

### Jul 2020

#### Thailand Factories

Zero Accident Award 2020 from Thailand Institute of Occupational Safety and Health (Public Organization)

#### Malaysian Factory

Appreciate Letter from PKNM (Melaka State Development Corporation) for The Service and Commitment in the Organization and Participation of the Industry Sector Program for the year 2019

### Sept 2020

#### Thailand Factory

Outstanding Establishment on Labor Relations and Welfare Award from The Office of Labor Protection and Welfare, Chachoengsao Province, Thailand

### Dec 2020

#### Singapore Factory

3M Recognition Award for Plastic-Reels Recycling Project

**3M** Science.  
Applied to Life.™

### Jan 2020



#### Thailand Factories

Environmental Good Governance Award from IEAT (CSR Program and Factory Audit by Local Community)

### Aug 2020

#### All Sites

New ISO45001 Certificate Award from TÜV SÜD



### Nov 2020

#### Indonesian Factory

Zero Accident Award from Government

#### Singapore Factory

2020 HR Excellence Award Gold Winner







## Corporate Social Responsibility Policy Environmental, Health and Safety (EHS) Policy

UTAC is committed to Corporate Social Responsibility along with Responsible Business Alliance (RBA) Code of Conduct, Business Values and Global Environmental, Health, Safety and Security.



- We strive to provide a safe and healthy environment for our employees, contractors, suppliers and the communities in which we operate.



- We recognize the importance of human rights, resource conservation, community well-being and business ethics.



- We are committed to the prevention of pollution, injury and ill-health in the workplace.

**We shall continually improve the management systems and every solutions we offer through:**

- Use of environmentally friendly materials and providing a safe plant and system of work
- Measures on pollution prevention and minimization, especially in our chemical and material handling
- Management and loss prevention with feasible advanced technology. Understanding and commitment to mitigate occupational health and safety risks including hazards elimination
- Adherence to applicable resource conservation and safe work practices and have worker or their representative to participate in the consultation. Commitment to comply with applicable local environmental, occupational health and safety legislation and other requirements including labor laws
- Ensuring that employment is freely chosen and not using child labor
- Ensuring appropriate working hours and wages payment in compliance with local labor law, including treating our employees fairly
- Non-discriminatory recruitment and freedom of association of all employees
- Zero tolerance on any form of bribery, corruption, extortion and embezzlement
- Fair conduct of business, advertising and competition
- Commitment to protecting the personal information of our customers, suppliers, and employees
- Providing appropriate communication channels for employees to raise any concerns without fear of retaliation

## CSR COMMITMENT AND STRATEGY

*UTAC's CSR Policy ensures that employees are able to work in a safe and healthy environment.*

### 1. Corporate Social Responsibility Policy

- Embedding environmental and social responsibility, it ensures sustainability in UTAC's business through employee education initiatives.
- In 2020, UTAC achieved a new safety certification — ISO 45001.



UDG – Earth Hour Activity.

Figure 1. | CSR /EHS policy Statement

# CSR COMMITMENT AND STRATEGY

## 2. Strategy and Structure

- UTAC's Sustainability Platform is led by a global sustainability team.
- Workshops, an informative webpages and townhall dialogues with senior management educate employees on the company's CSR efforts.



The primary focus of UTAC's CSR work is on the **environment and climate**.



The secondary focus is the **safety of their employees** that is monitored through the Frequency Severity Indicator (FSI) chart.



UID – Donation of bunny suits and face masks to the medical team.



UTL – Quarter 2 blood donation drive, donated 38, 850cc.



USG – Applying SDST antimicrobial coatings at common touch areas.



# CSR COMMITMENT AND STRATEGY

## 2. Strategy and Structure

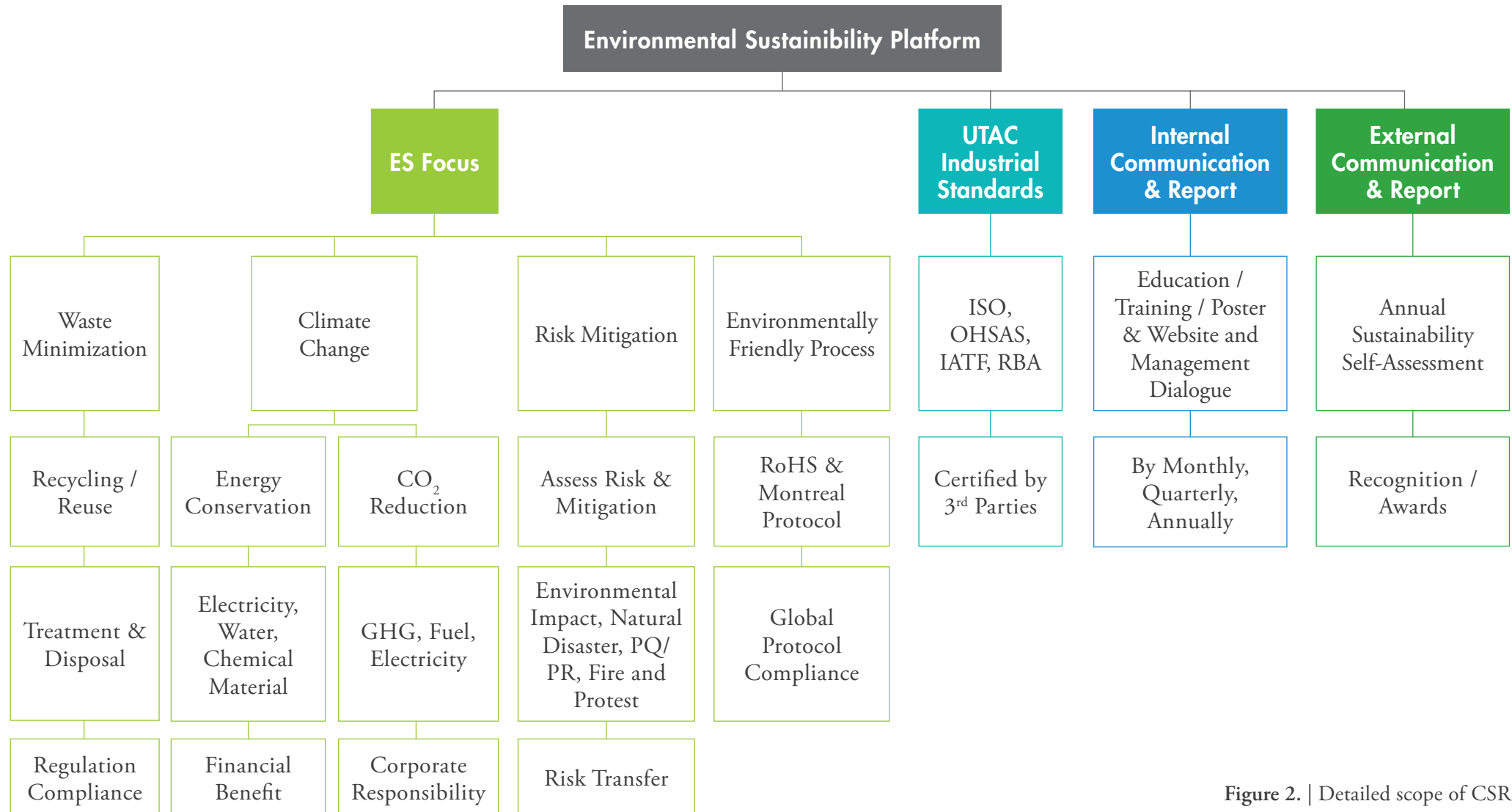


Figure 2. | Detailed scope of CSR

# CSR COMMITMENT AND STRATEGY

## 2. Strategy and Structure

In summary, UTAC's CSR policy is formed based on the following key aspects:



**Assessing environmental aspects and risk;** identify significant environmental impact; and initiate control and/or mitigation procedures.



Building a platform to focus on **significant sustainability risk mitigation**; and quantify financial benefit associated with sustainability programs.



**Enhancing internal and external education,** to adopt environmental sustainability approaches within UTAC, and advocate and promote sustainable practices with contractors and suppliers.



UTL – Water Festival Make Merit Rice donation valued at 8,181USD (top and bottom images).



UTL3 – Recycled reject RO water by increasing quality and supply water to feed RO system (top and bottom images).





# CSR COMMITMENT AND STRATEGY

## 3. Environment and Climate



Boosting energy efficiency while reducing carbon footprint.



Providing customers with energy efficient and environmentally-friendly products and solutions.



Managing resources effectively to lower energy consumption.



Working with partners and suppliers to reduce environmental impact throughout the product life cycle.

UTAC's assembly and testing processes and products are in full compliance with:



The RoHS (Restriction of Hazardous Substances) Directive:  
*Restricts the use of 6 hazardous materials found in electrical and electronic products.*



The Montreal Protocol:  
*Addressing substances that deplete the ozone layer.*



UTL – Plastic bag reduction programme.



## i. Resource Management and Energy Conservation

- UTAC invested in selected programs.
- Carried out ongoing programs to raise awareness.
- Consistently encouraged employees to participate in energy conservation, recycling and responsible waste management initiatives.

# CSR COMMITMENT AND STRATEGY

## ii. Carbon Footprint and Environmental Protection

- UTAC continuously enhances its environmentally friendly processes and practices.

Carbon footprint reduction year-on-year since 2012

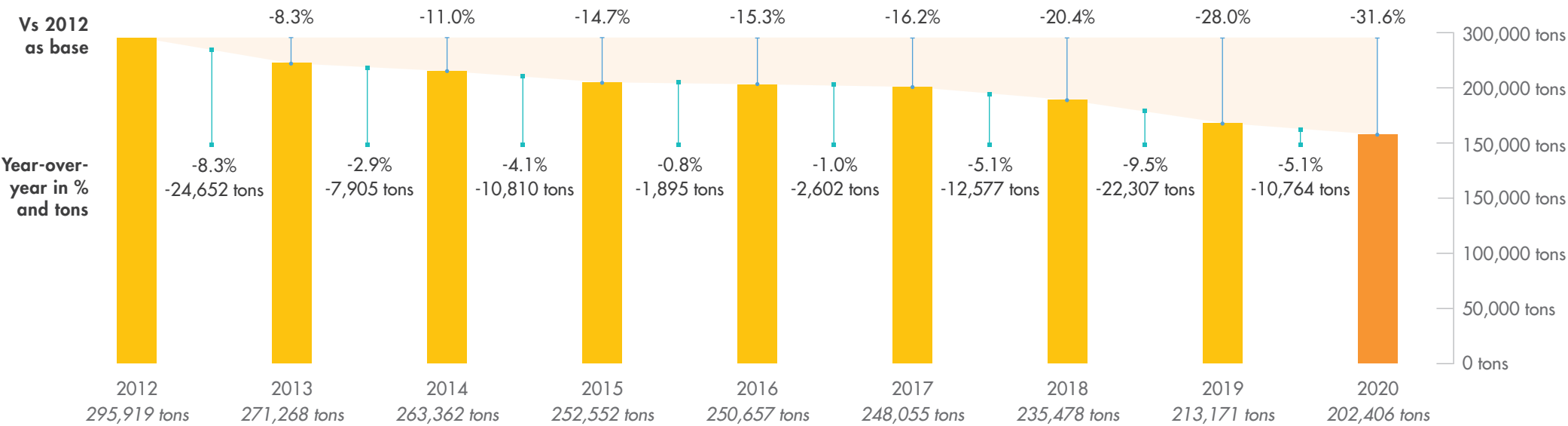


Table 1. | CO<sub>2</sub> emission reduction vs Y2012 (base year) (%)

*In 2020, UTAC’s CO<sub>2</sub> discharge was 202,406 tons, representing a reduction of 10,784 tons equivalent to the protection afforded by 498,800 trees on climate change or 5.1% reduction year-on-year.*

*UTAC has reduced its carbon footprint every year since their project’s inception in 2012. There has been an overall 31.6% reduction over the last 8 years.*



# CSR COMMITMENT AND STRATEGY

## iii. Water Conservation

UTAC utilized reclaimed water for 42% or 1,155,372 m<sup>3</sup>/year of its water usage through a micro filtration system in 2020.

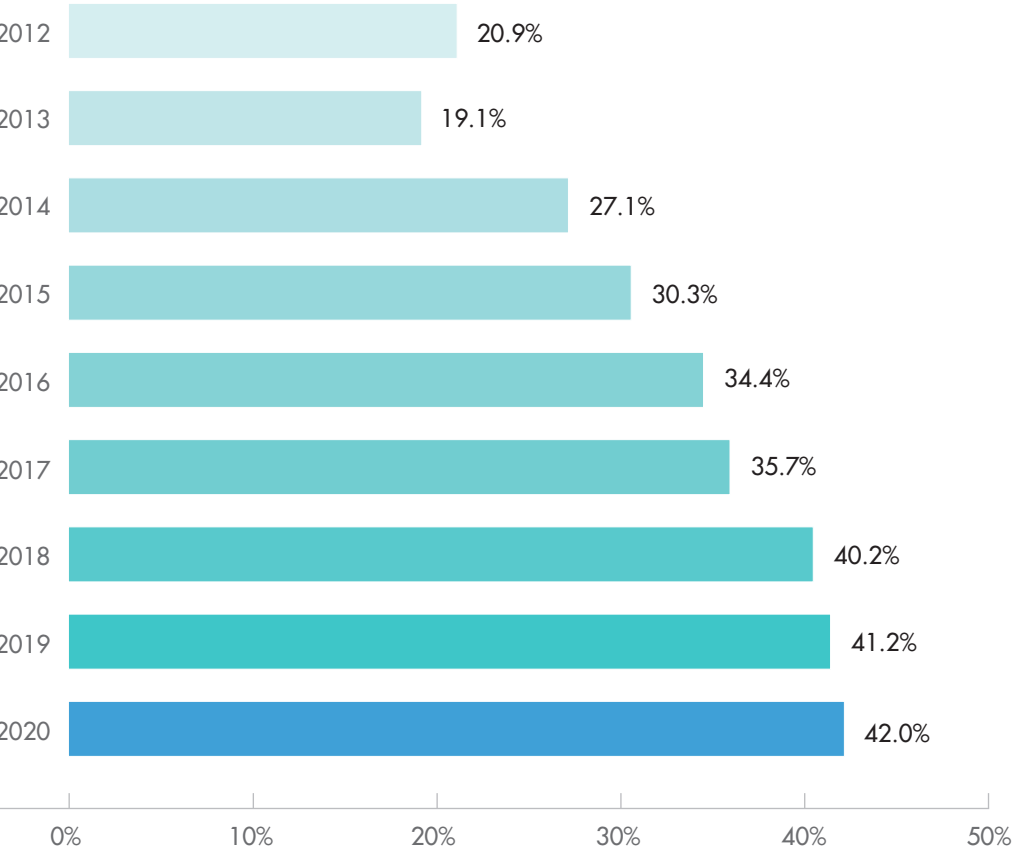


Figure 3. | Increase in amount of recycled water used since 2021.

## iv. Waste Management

UTAC has increased its waste recycling from 1,445 tons in 2019 to 1,745 tons in 2020 (increasing from 33% to 38.2%).

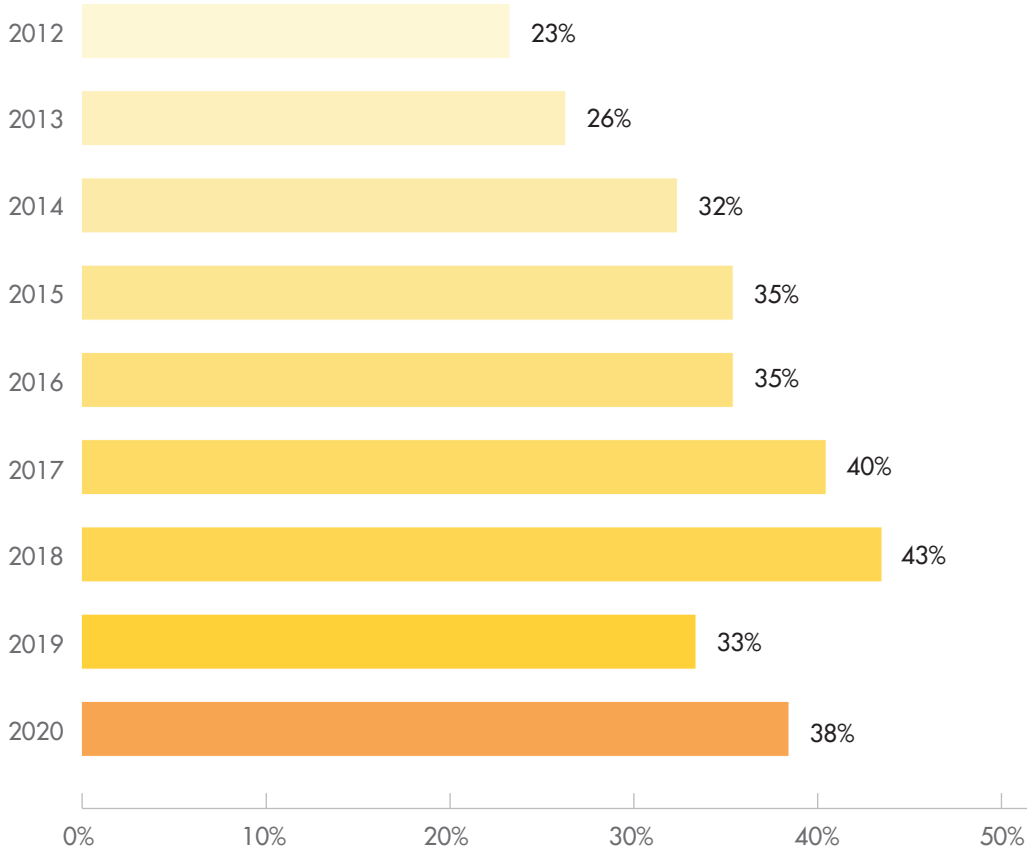


Figure 4. | Increase in amount of waste recycled since 2012.

# CSR COMMITMENT AND STRATEGY

## v. Safety Standards

- UTAC’s aim is to keep the FSI as low as possible.
- It’s ultimate target is an FSI figure of “zero”.

$$FSI = \sqrt{\frac{(AFR*ASR)}{1000}}$$

Where, FSI = Frequency Severity Indicator

AFR = Accident Frequency Rate = number of accidents resulting in work hours / total number of work

ASR = Accident Severity Rate = number of lost hours due to accident / total number of work hours

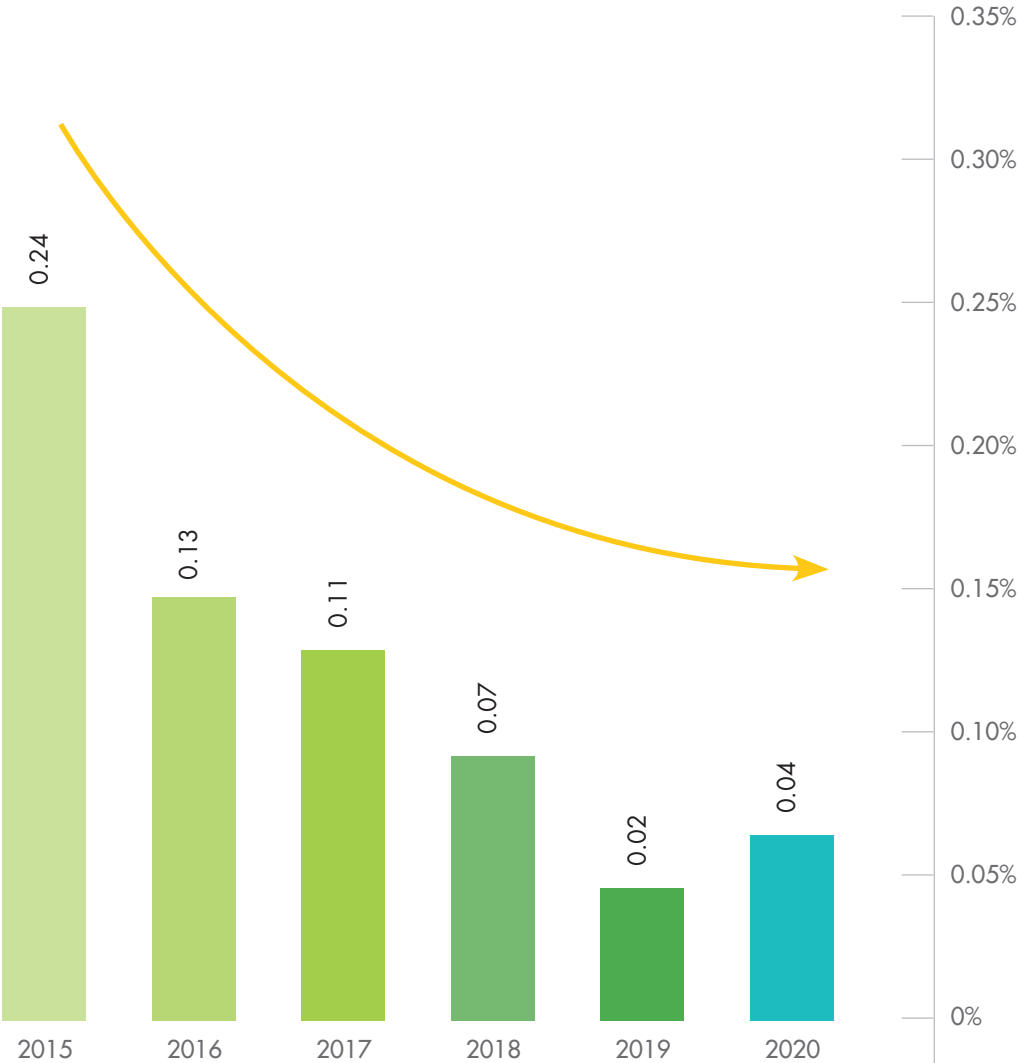


Table 2. | FSI figures across the years.



# CSR COMMITMENT AND STRATEGY

## vi. Corporate Governance and Compliance

*Our Management System complies with the **RBA Code of Conduct**.*

### MANAGEMENT SYSTEM

- |   |  |   |                               |
|---|--|---|-------------------------------|
| 1. Company Commitment                           | 4. Risk Assessment and Risk Management | 8. Worker Feedback, Participation and Grievance     | 10. Audits and Assessments    |
| 2. Management Accountability and Responsibility | 5. Improvement Objectives              | 9. Third Party Audits and Assessments every 3 years | 11. Corrective Action Process |
| 3. Legal and Customer Requirements              | 6. Training                            |   | 12. Documentation and Records |
|   | 7. Communication                       |   | 13. Supplier Responsibility   |



#### LABOUR

1. Freely Chosen Employment
2. Young Workers
3. Working Hours
4. Wages and Benefits
5. Humane Treatment
6. Non-Discrimination
7. Freedom of Association



#### HEALTH & SAFETY

1. Occupational Safety
2. Emergency Preparedness
3. Occupational Injury and Illness
4. Industrial Hygiene
5. Physically Demanding Work
6. Machine Safeguarding
7. Sanitation, Food, and Housing
8. Health and Safety Communication



#### ETHICS

1. Business Integrity
2. No Improper Advantage
3. Disclosure of Information
4. Intellectual Property
5. Fair Business, Advertising and Competition
6. Protection of Identity and Non-Retaliation
7. Responsible Sourcing of Minerals
8. Privacy



#### ENVIRONMENTAL

1. Environmental Permits and Reporting
2. Pollution Prevention and Resource Reduction
3. Hazardous Substances
4. Solid Waste
5. Air Emissions
6. Materials Restrictions
7. Water Management
8. Energy Consumption and Greenhouse Gas Emissions

# CSR COMMITMENT AND STRATEGY







## vii. Business Continuity Plan and Risk Mitigation

UTAC's potential business risks are classified into 3 categories – high, medium and low. Each risk has been outfitted with a detailed business continuity plan using the FMEA (Failure Mode and Effect Analysis) assessment tool to mitigate pitfalls.



### UTAC Risk Management Classification and Plan

#### Equipment risk assessment:

<b>HIGH</b> (as risk ranking 1 & 2)	<div>  <ol style="list-style-type: none"> <li>Equipment is from a single source with no alternative site</li> <li>No alternative supplier capable to manufacture the same equipment</li> <li>No same equipment / capability in UTAC (same or another site)</li> </ol> </div> <div>  <ul style="list-style-type: none"> <li>Work with supplier for business continuity plan (<i>point 1 only</i>)</li> <li>Immediate qualification (within 1-2 quarters) of alternative source (<i>points 2 &amp; 3</i>)</li> </ul> </div>
<b>Medium</b> (as risk ranking 3)	<div>  <ol style="list-style-type: none"> <li>Have alternative source or supplier site with the same capability but located in the same region</li> <li>No duplicate of equipment in another UTAC site</li> </ol> </div> <div>  <ul style="list-style-type: none"> <li>Qualification of alternative source or material (within 2–3 quarters)</li> </ul> </div>
<b>Low</b> (as risk ranking 4)	<div>  <ol style="list-style-type: none"> <li>Have alternative source or site with the same capability and are in different regions</li> <li>Site has duplicate of equipment. Other UTAC sites have the same equipment and capability another site)</li> </ol> </div> <div>  <ul style="list-style-type: none"> <li>No immediate action needed</li> </ul> </div>

#### Material risk assessment:







<div>  <ol style="list-style-type: none"> <li>Single source with no alternative source. No alternative supplier with similar capacity</li> </ol> </div> <div>  <ul style="list-style-type: none"> <li>Work with supplier for business continuity plan</li> <li>Immediate qualification (within 1–2 quarters) of alternative source</li> <li>Regular review of inventory level / commitment to 13 weeks rolling forecast</li> </ul> </div>
<div>  <ol style="list-style-type: none"> <li>Have alternative source or supplier site with the same capability and located in the same region</li> </ol> </div> <div>  <ul style="list-style-type: none"> <li>Regular review of supplier's inventory level</li> <li>Qualification of alternative source or material within (2–3 quarters)</li> </ul> </div>
<div>  <ol style="list-style-type: none"> <li>Availability of alternative source or site with the same capability and alternative source or site is in different region</li> </ol> </div> <div>  <ul style="list-style-type: none"> <li>No immediate action needed</li> <li>Regular review of supplier's inventory level</li> <li>Continuous review of supplier's performance and support (Supplier business review)</li> </ul> </div>

Table 3. | Risk classification and mitigation plans

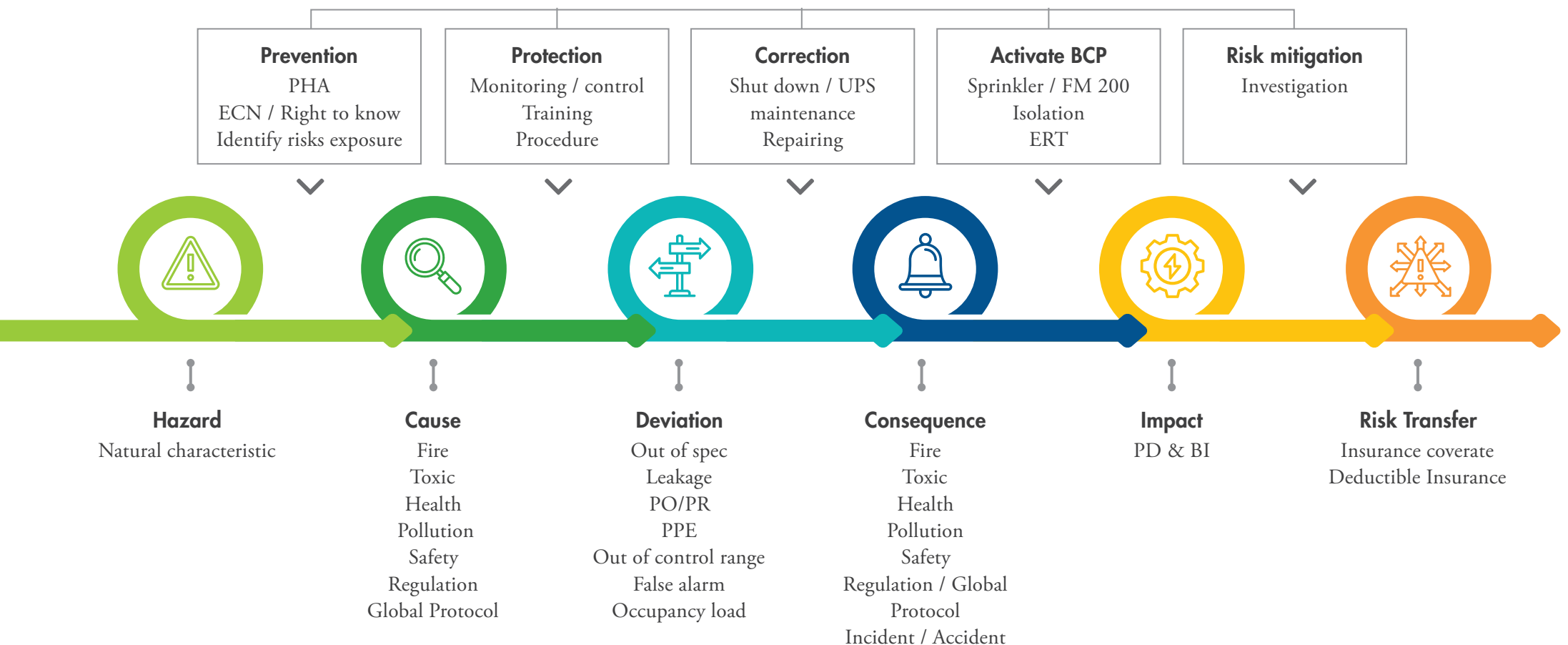


# CSR COMMITMENT AND STRATEGY

## vii. Business Continuity Plan and Risk Mitigation

- UTAC conducts regular audits of their systems and processes.
- Third party audits — Environmental Management System (EMS) and Occupational Health & Safety Advisory Services (OHSAS) provide the framework for UTAC's business continuity plan.

### Risk Mitigation Flowchart



# CSR COMMITMENT AND STRATEGY

UTAC met ISO 14001, ISO 45001 and IATF 16949 industrial standards.

Compliance Topic	Site	Expiry Date	3 <sup>rd</sup> Body Used	Description	Compliance Topic	Site	Expiry Date	3 <sup>rd</sup> Body Used	Description
 <b>ISO 9001 : 2015</b> Linkage: <i>Certified</i> Certified Period: <i>3 years</i>	USG 1	8 Jul 2021	TUV SUD PSB Pte Ltd	Certificate No. 2003-1-0565	 <b>ISO 45001 : 2018</b> Linkage: <i>Certified</i> Certified Period: <i>3 years</i>	USG 1	14 Nov 2023	TUV SUD PSB Pte Ltd	Certificate No. OHS-45001-2020-0201-2
	USG 2	2 Oct 2021		Certificate No. 2016-2-2401		USG 2			Certificate No. OHS-45001-2020-0201-1
	UTL 1	5 Aug 2021	TUV SUD Management Service GmbH	Certificate No. 12 100 54168 TMS		UTL 1			Certificate No. OHS-45001-2020-0201-3
	UTL 2	18 Jul 2021		Certificate No. 12 100 54168/03 TMS		UTL 2			Certificate No. OHS-45001-2020-0201-4
	UTL 3	29 Oct 2023		Certificate No. 12 100 54168/02 TMS		UTL 3			Certificate No. OHS-45001-2020-0201-5
	UDG	13 Aug 2021		Certificate No. 12 100 54359 TMS		UDG			Certificate No. OHS-45001-2020-0201-8
	UMY	5 Aug 2021		Certificate No. 12 100 54554 TMS		UMY			Certificate No. OHS-45001-2020-0201-7
	UID	13 Sept 2021		Certificate No. 12 100 55116 TMS		UID			Certificate No. OHS-45001-2020-0201-6
 <b>ISO 14001 : 2015</b> Linkage: <i>Certified</i> Certified Period: <i>3 years</i>	USG 1	17 Jul 2022	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-2	 <b>IATF 16949 : 2016</b> Linkage: <i>Certified</i> Certified Period: <i>3 years</i>	USG 1	23 Jan 2022	TUV SUD Mgt Service GmbH	Certificate No. 12 111 42103 TMS
	USG 2			Certificate No. 2016-0676-1		USG 2	9 Aug 2021		Certificate No. 12 111 52659 TMS
	UTL 1			Certificate No. 2016-0676-3		UTL 1	5 Aug 2021		Certificate No. 12 111 54168/01 TMS
	UTL 2			Certificate No. 2016-0676-4		UTL 2	18 Jul 2021		Certificate No. 12 111 54168/03 TMS
	UTL 3			Certificate No. 2016-0676-5		UTL 3	29 Oct 2021		Letter of conformance No. 12 111 54168/02
	UDG			Certificate No. 2016-0676-8		UDG	13 Aug 2021		Certificate No. 12 111 54359 TMS
	UMY			Certificate No. 2016-0676-7		UMY	5 Aug 2021		Certificate No. 12 111 54554 TMS
	UID			Certificate No. 2016-0676-6		UID	13 Sept 2021		Certificate No. 12 111 55116 TMS

Table 4. | UTAC group industrial standards, key certification listing by site



# 2020 CSR / COMMUNITY OUTREACH ACTIVITIES


**184**

Activities


**483**

Volunteer Hours


**USD35k**

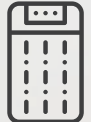
Donations


**7**

Blood Drives (222,900cc)


**695**

Sacks of rice


**130**

Mattress sets

- 7 Blood drives with 222,900 cc of blood donated
- USD15,365 raised
- Other donations: 130 mattress sets (worth USD2,496) & 695 sacks of rice (worth USD21,148)

**40%**

Volunteering / CSR  
/ Community

**5%**

Environmental

**48%**

Health / Safety

- USD19,878 raised and donated to UDG employee's family when employee was found to be afflicted with cancer

**7%**

Philanthropy



# CY2020 TOTAL RECOGNITION & AWARDS





# 2020 ACTIVITIES IN PHOTOS

**UMY**  
Hari Raya Aidilfitri  
cookies distribution



**UDG**  
Blood Donation Drive, a total  
of 29,800cc of blood donated



**UMY**  
Muruku distribution  
to all employees  
during Deepavali



**USG**  
Mobile Phone  
Photography for  
Charity



**Corp. & USG**  
Cheque presentation  
to the Make-A-Wish  
Foundation



**UDG**  
Covid measures  
put in place



**USG**  
GM visits employees at  
the LyF Funan Singapore



# 2020 ACTIVITIES IN PHOTOS

## UID

Donation to Tahfiz House



## UTC

9,000cc of blood donated in the Q1 Blood Donation Drive



## UTL1-2-3

New Year Make Merit Riace donation valued at 8,211USD



## UID

Covid-19 Donation to Karawang Peduli Committee and Taxibike-On Line



## UTL

130 Mattress sets donated to a home for the disabled & homeless children



## UTC

Fire Fighting Education and Training Program

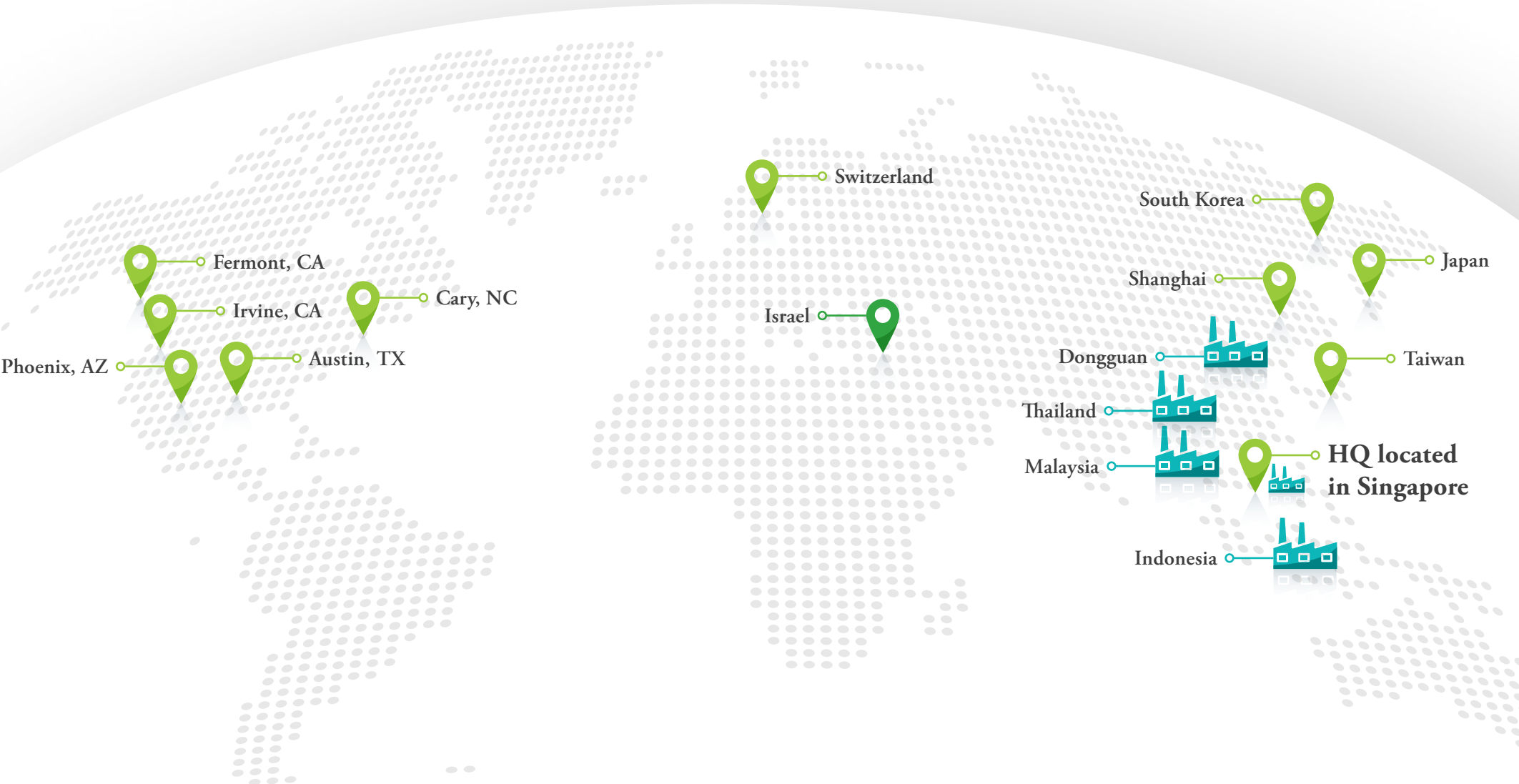


# OUR GLOBAL FOOTPRINT

  
Sales Office

  
Rep Office

  
Factories



# GLOSSARY

## A

AFR	Accident Frequency Rate
AHU	Air Handling Unit
ASR	Accident Severity Rate

## B

BCP	Business Continuity Plan
BI	Business Interruption

## C

CEO	Chief Executive Officer
CO <sub>2</sub>	Carbon Dioxide
CSR	Corporate Social Responsibility
CTSP	Central Taiwan Science Part

## D

DOE	Department of Environment
-----	---------------------------

## E

ECN	Engineering Change Notice
EHS	Environmental, Health and Safety
EICC	Electronics Industry Code of Conduct
EMS	Environmental Management System
ERT	Emergency Response Team
ES	Environmental Sustainability

## F

FM	200 Type of clean agent fire extinguisher
FMEA	Failure Mode and Effect Analysis
FSI	Frequency Severity Indicator

## G

GHG	Green House Gases
GM	General Manager

## H

HR	Human Resource
----	----------------

## I

IATF	The International Automotive Task Force
IC	Integrated Circuits
ISH	Industrial Safety and Health
ISO	International Organization for standardization

## K

KG	Kilograms
KPI	Key Performance Indicator
KPC	Kilo-pin- count of output
kWh	Kilowatt Hour

## L

LED	Light Emitting Diode
-----	----------------------

## M

MTCE	Metric Tons of Carbon Equivalent
------	----------------------------------

## N

NFEC	National Fire and Civil Emergency Preparedness Council
------	--

## O

OHSAS	Occupational Health & Safety Advisory Services
-------	--

## P

PD	Property Damage
PHA	Preliminary Hazard Analysis
PPE	Personal Protective Equipment
PQ/PR	Power Quality/Power Reliability
PVD	Provident (Provident Fund)

## Q

QA	Quality Assurance
----	-------------------

## R

RBA	Responsible Business Alliance
RO	Reverse Osmosis
RO-CDI	Reverse Osmosis
RoHS	Restriction of Hazardous Substances

## T

TUV SUD	Name of Certify Body for all management system
---------	--

## U

UDG	UTAC Dongguan (China)
UID	UTAC Indonesia
UMY	UTAC Malaysia
UPS	Uninterruptible Power Supply
USD	United States Dollar
USG	UTAC Singapore
UTAC	United Test and Assembly Center
UTC	UTAC Taiwan
UTL	UTAC Thai Limited

## V

VP	Vice President
VSD	Variable Speed Drive



# CORPORATE SUSTAINABILITY REPORT 2020

utacgroup.com | UTAC Headquarters: 22 Ang Mo Kio Industrial Park 2, Singapore 569506



UTAC's CSR policy is formed based on the following key aspects:



Assessing environmental aspects and risk; identify significant environmental impact; and initiate control and/or mitigation procedures.



Building a platform to focus on significant sustainability risk mitigation; and quantify financial benefit associated with sustainability programs.

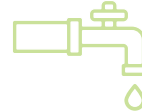


Enhancing internal and external education, to adopt environmental sustainability approaches within UTAC, and advocate and promote sustainable practices with contractors and suppliers.

## UTAC exceeded all its key CSR KPI metrics in 2020

**4.1%**

Electricity Reduction (kWh)



**5.8%**

Water Reduction (m<sup>3</sup>)

**42%** Water Recycling & Reuse

Utilized reclaimed water of **1,155,372 m<sup>3</sup>/year** through a micro filtration system in 2020

**202,406 tons** CO<sub>2</sub> Emission Reduction in 2020



Equivalent to the protection afforded by **498,800 trees** on climate change

**5.1%** CO<sub>2</sub> Footprint Reduction in 2020

Overall reduction of **31.6%** since 2012

2012 **295,919 tons**

2020 **202,406 tons**

**38.2%** Waste Recycling & Reuse

Increased waste recycling from **33%** to **38.2%**

2019 **1,449 tons**

2020 **1,745 tons**



**4 out of 5 sites** saw dedicated **capital investment** into CSR initiatives in 2020

- UTL: Solar roof project, Chilled water plant efficiency improvement
- UMY: Optimizing dryer system operation
- UID: Installation of VSD in cooling system
- USG1 & UID: High efficiency LED replacement

## CSR / Community Outreach Activities in 2020



**184**  
Activities



**483**  
Volunteer Hours



**USD35k**  
Donations



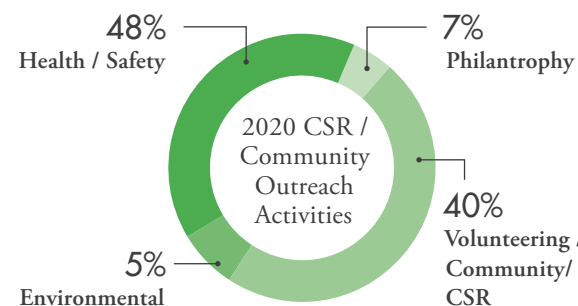
**7**  
Blood Drives  
(222,900cc)



**695**  
Sacks of rice



**130**  
Mattress sets



**21**

Corporate Social Responsibility Awards won



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