



Sustainability Report 2018



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1. Executive Summary

At UTAC, our mission is to build a sustainable business, providing value to all of our customers, partners and stakeholders, while ensuring the integrity of our global supply chain and delivering on our commitment to make a positive impact to our industry and the community and environment in which we operate. We develop and implement responsible business practices across our global footprint, and establish systems and processes for continuous improvement in our operations.

Our approach to sustainability is centred on identifying and managing potential environmental impact through initiatives aimed at maximising energy efficiency, effective resource management, and reducing carbon emissions. In addition, we hold ourselves to high levels of corporate governance, adhering to all relevant local and international regulations, standards and guidelines, and putting in place systematic monitoring and risk management for business sustainability.

It is our belief that strong governance and leadership are the foundations for growth and sustainable business development. Under our management team led by CEO Dr. John Nelson, each and every employee is required to abide by our Corporate Social Responsibility (CSR) Policy. This policy is aligned with the Responsible Business Alliance (RBA) Code of Conduct, and serves to provide clear guidance on UTAC’s business values and policies with regard to the environment, health, safety and security.

A group-wide directive on our CSR Policy and Commitment Statement was communicated to all employees, and a team dedicated to corporate social responsibility in our global supply chain, led by Senior Vice President of Quality Mr. Darren Colin Smith, is responsible for CSR / EHS activities coordination at the corporate level. We regularly monitor and conduct audits of our sustainability performance to ensure compliance and identify opportunities to do even better.

In addition, we have set a goal to mitigate carbon emission, taking 2012 and previous year consumption as the base-line, and set safety performance factor (SPF) KPIs to ensure a reliable safety practice and environment is in place

Dedicate Capital Investment in 2018		
Site	KUSD	Objectives
UTAC	4,250.9	Reduce air inlet temperature for Air compressor
		Install active harmonic filters for reducing the harmonic current distortion of MDB #5, 7
		Replace inefficient HF Fluorescent and ineffeicient LED Tube to High efficiency LED Tube
		Chilled Water Plant energy efficiency improvement
		Convert Potable water to Newater supply to top-up Cooling-Towers make-up tank
		Replace ageing cooling tower - safety & energy saving
		Consolidation of Corp offices. There is energy saving from this project.
		Build RO water and recycle system for tap-saw
		Build Sludge Dryer system to reduce HW
		Recycle D I water from RO membran waste
		Install a new VFD screw type vacuum pump
		Install Power optimization control for 58 sets of AHUs

We are pleased to share that through various efforts in 2018 across our sites (as detailed above), our sustainability systems, processes and practices have also been certified to meet ISO14001,OHSAS18001; and IATF 16949 industrial standards, and have also received recognition from government agencies and international industry associations.



UTAC Group Industrial Standards							
Compliance Topic	Site	Linkage	Certified period	Expire Date	3rd. Body Used	Description	Remark
ISO 9001 : 2015	USG 1	Certified	3 years	8-Jul-2021	TUV SUD Mgt Service GmbH	Certificate No. 2003-1-0565	
	UTL 1	Certified	3 years	5-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 100 54168 TMS	
	UTL 2	Certified	3 years	18-Jul-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 100 54168/03 TMS	
	UTL 3	Certified	3 years	27-Sep-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 100 54168/02 TMS	
	UTC	Certified	3 years	10-Sep-2021	TUV SUD PSB Pte Ltd	Certificate No. 2018-2-2499	
	UDG	Certified	3 years	13-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 100 54359 TMS	
	USG2	Certified	2 years	2-Oct-2021	TUV SUD Mgt Service GmbH	Certificate No. 2016-2-2401	
	UMY	Certified	3 years	5-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 100 54554 TMS	
UID	Certified	3 years	13-Sep-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 100 55116 TMS		
ISO 14001 : 2015	USG 1	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-2	
	UTL 1	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-3	
	UTL 2	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-4	
	UTL 3	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-5	
	UTC	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-9	
	UDG	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-8	
	USG2	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-1	
	UMY	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-7	
UID	Certified	3 years	4-Aug-2019	TUV SUD PSB Pte Ltd	Certificate No. 2016-0676-6		
OHSAS 18001 : 2007	USG 1	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/7	
	UTL 1	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/2	
	UTL 2	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/3	
	UTL 3	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/4	
	UTC	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/9	
	UDG	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/8	
	USG2	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/1	
	UMY	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/6	
UID	Certified	3 years	14-Nov-2020	TUV SUD Asia Pacific TUV SUD Group	Certificate No. TUV116 14 3809/5		
IATF 16949 : 2016	USG 1	Certified	3 years	24-Jul-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 42103 TMS	
	UTL 1	Certified	3 years	5-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 54168/01 TMS	
	UTL 2	Certified	3 years	18-Jul-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 54168/03 TMS	
	UTL 3	Certified	3 years	27-Sep-2019	TUV SUD Mgt Service GmbH	Letter of conformance No. 12 111 54168/02	No Assembly at UTL3
	UTC	Certified	3 years	12-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 52869 TMS	
	UDG	Certified	3 years	13-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 54359 TMS	
	USG2	Certified	2 years	9-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 52659 TMS	
	UMY	Certified	3 years	5-Aug-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 54554 TMS	
UID	Certified	3 years	13-Sep-2021	TUV SUD Mgt Service GmbH	Certificate No. 12 111 55116 TMS		

2. CSR Commitment and Strategy

UTAC is committed to being a good corporate citizen and a socially responsible organization. Our dedication to our CSR Policy ensures that employees are able to work in a safe and healthy environment. Similarly, in communities where we operate, we understand the value of creating a healthy eco-system where everyone can thrive.

A. Corporate Social Responsibility Policy

Under the leadership and direction of the CEO, UTAC issued a company-wide “Corporate Social Responsibility Policy and Commitment Statement” directive to all employees to provide clear guidance on UTAC’s sustainable business practices. UTAC continuously works towards being a company that embeds environmental and social responsibility and sustainability in all aspects of our business, from product and service development to employee education initiatives.



Corporate Social Responsibility 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.

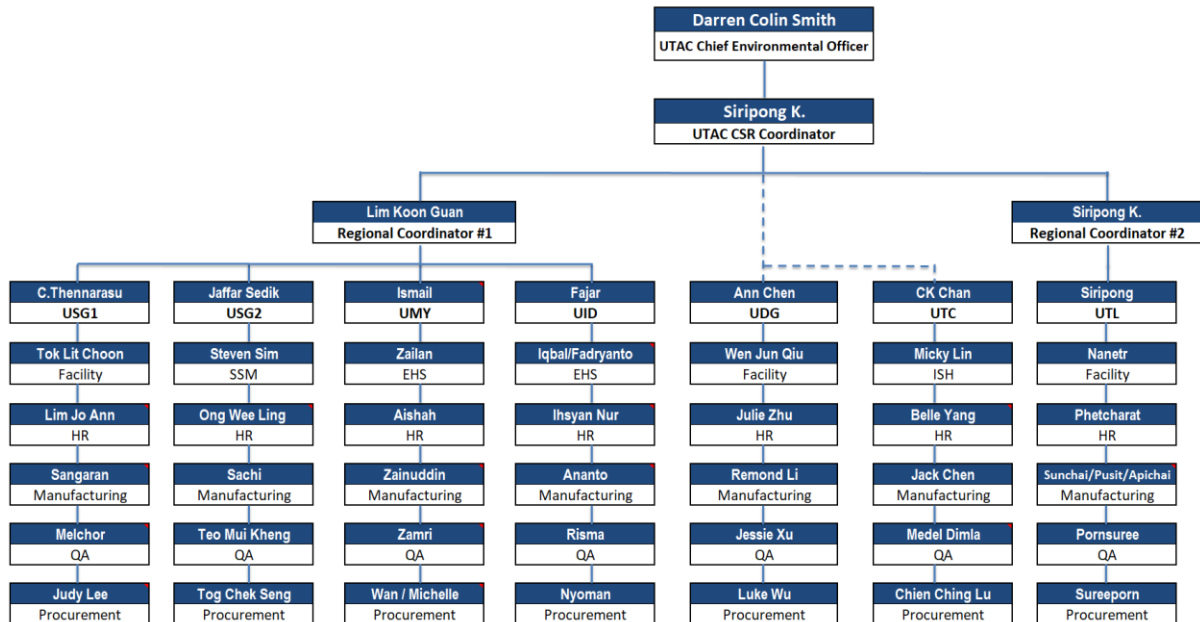


• We are committed to the prevention of pollution, injury and ill-health in the workplace.

We shall continually improve every solution 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 and understanding of occupational health and safety concerns
- Adherence to applicable resource conservation practices. Commitment to comply with applicable local environmental, occupational health and safety, and 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

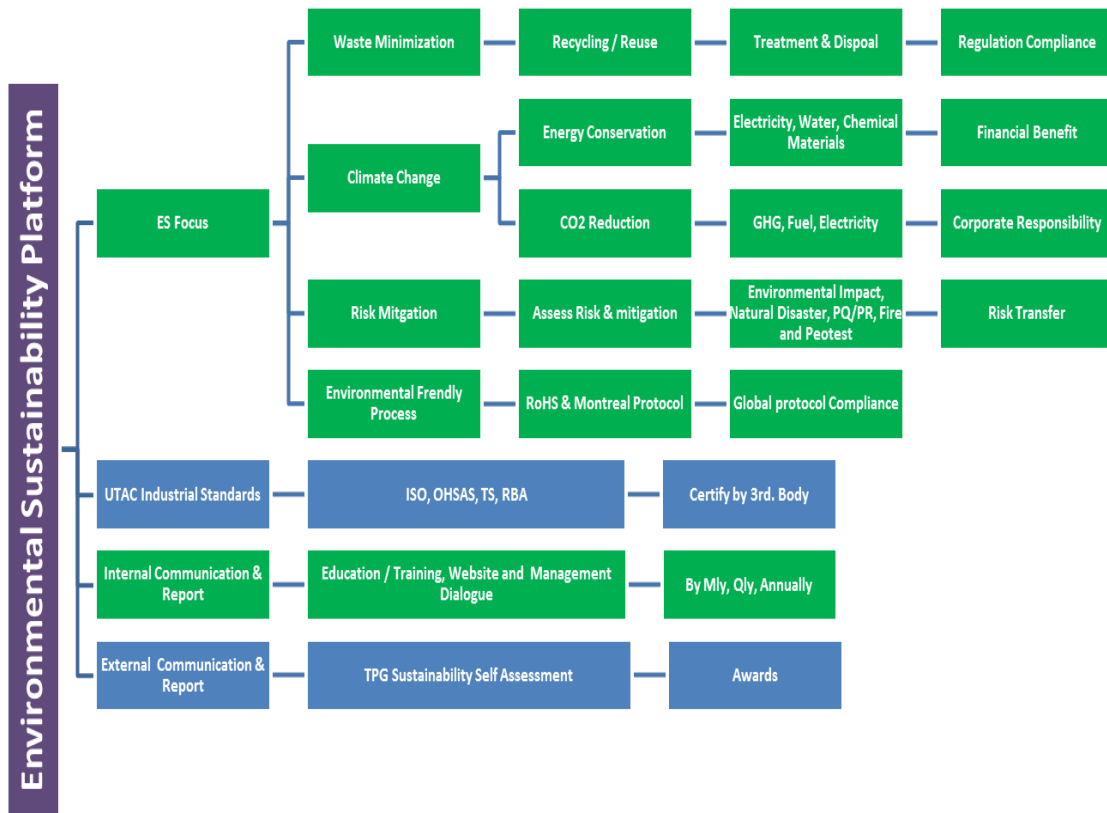
In order to effectively execute UTAC’s commitment across all offices, UTAC has established a Sustainability Platform led by a global sustainability team which is responsible for driving and implementing initiatives within the various local communities.



The global sustainability team, led by a Senior Vice President of quality as the corporate environmental officer, is responsible for driving sustainable business practices throughout each of our offices or facilities, and a structure is in place to enable UTAC to:

- Assess environmental aspect and risk; and Identify significant environmental impact; and initiate control and/or mitigation procedures.
- Build a platform to focus on significant sustainability risk mitigation; and quantify financial benefit associated with sustainability programs.
- Enhance internal and external environment education, to not only adopt environmental sustainability approaches within UTAC, but also advocate and promote sustainable practices with contractors and suppliers.

Education and enablement is the key to ensuring that each employee understands the importance of sustainability. As such, beyond the organizational adoption of environmental sustainability, every employee will learn the value and significance of these concepts through educational workshops, our informative UTAC Sustainability webpage and over town hall dialogues with senior management.



3. Key Sustainability Programs and Achievements in 2018

At UTAC, we believe that our focus on sustainability creates value and a healthy and robust environment for our employees, contractors, suppliers, and the communities in which we operate. This is why UTAC places a strong emphasis on continually developing, reviewing and improving our sustainability programs, whether it be for social, environmental or business sustainability.

Our focus on comprehensive, quality sustainability programs has been guided by frameworks such as the RBA and our efforts have been recognized by international organizations such as the Environmental Management System (EMS) and the Occupational Health & Safety Advisory Services (OHSAS).



Across our global operations, UTAC makes all reasonable efforts to minimize use of resources including energy, water and raw materials. We have reduced our carbon footprint by 16.3% over 5 years, taking 2012 as the base line, and reduced energy consumption by 3-5% year-on-year.



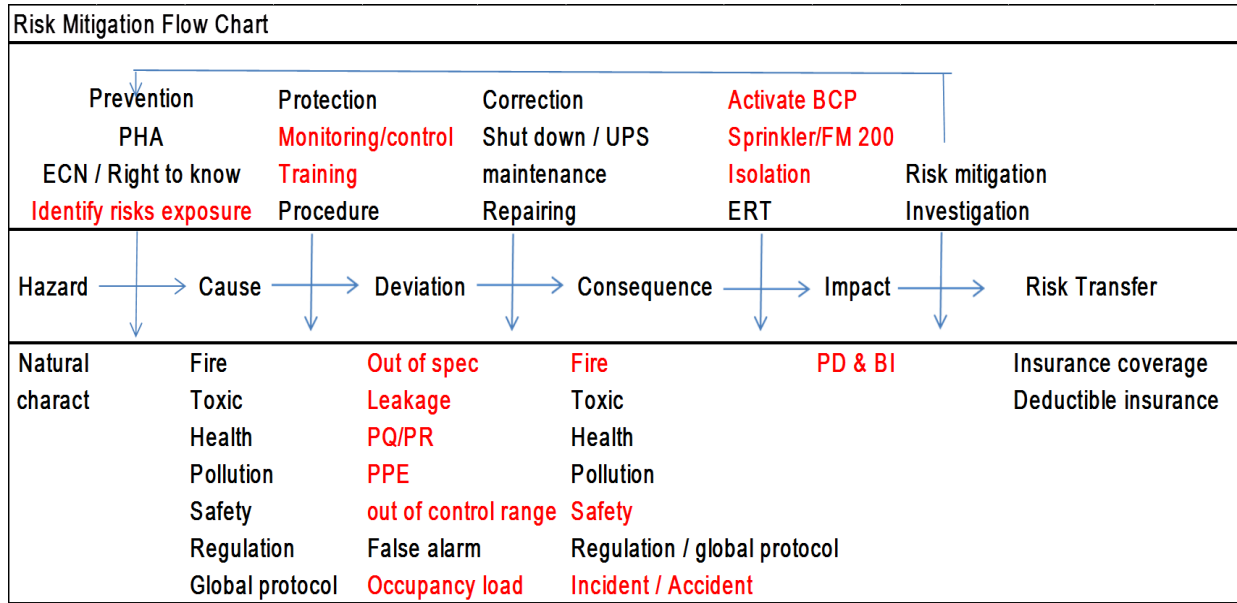
UTAC Sustainability Performance Goal For CY2018														
KPI Index	Area	Definition	Weight	Goals	UTL 1	UTL 2	UTL 3	UDG	UTC	USG 1	USG2	UMY	UID	UTAC
Energy Efficiency Improvement	Water Consumption Reduction	Water Liter/KPCs Reduction From Same Time Period in 2017	25%	Target	2%	2%	0%	4%	0%	1%	5%	4%	4%	2.5%
				2018	2.3%	13.7%	-17.5%	19.3%	-3.3%	9.9%	10.0%	20.6%	26.3%	8.3%
	Carbon Footprint Reduction (MTCE)	Electricity, Fuel and GHG Consumption Reduction	25%	Target	2%	2%	0%	2%	0%	1%	4%	2%	2%	1.7%
				2018	-4.7%	2.2%	-13.0%	10.9%	-1.6%	9.7%	4.4%	26.4%	6.1%	5.1%
Waste management	Reuse & Recycling	Hazardous & Non hazardous waste Reuse & Recycling	15%	Target	20%	70%	20%	40%	20%	8%	8%	8%	8%	22.4%
				2018	21.9%	87.1%	93.3%	68.8%	54.8%	33.8%	20.1%	74.5%	90.3%	42.9%
EHS Compliance	Site	# of Incident / Accident	25%	Limit	27	27	27	27	27	27	27	27	27	27
				2018	0.8	0.8	0.8	36.9	0.0	160.0	18.2	3.3	0.0	17.4
Awards	Corporate Social Responsibility	Recognition from Local Government, Customers, or 3rd Party Audit Improve	10%	Target	1	1	1	1	1	1	1	1	1	9
				2018	5	5	5	3	7	5	5	2	1	38
Score (total 100 points)			100%	2018	74.3	99.3	49.3	75.0	50.0	75.0	83.1	97.0	100.0	83.9

As part of our commitment to sustainability, UTAC also prioritizes risk mitigation and business continuity planning to proactively address and prepare for any vulnerabilities and potential risks to our business operations.

Prioritizes risk mitigation:

Summary of Areas for Improvement (Updated)							
Loss Expectancy = Asset value X Exposure factor*							
*The exposure factor is represented in the impact of the risk over the asset, or percentage of asset lost. As an example, if the asset value is reduced two thirds, the exposure factor value is 0.66. If the asset is completely lost, the exposure factor is 1.0.							
Site	No. of Components below expectation	Critical Recommendations	Loss Expectancy US\$ (Before)		Countermeasure 	Loss Expectancy US\$ (After)	
			PD	BI		PD	BI
USG1	1	Nil					
USG2	1	Nil					
UTL1	4	Combustible material in workspace			Refer to Hazardous material		
		Fire Compartmentation			Refer to Fixed fire suppression		
		Sprinkler effectiveness			100% coverage by effective fire pumps		
UTL2	3	Combustible material in workspace			Refer to Hazardous material		
		Fire Compartmentation			Refer to Fixed fire suppression		
		Sprinkler effectiveness			100% coverage by effective fire pumps		
UTL3	3	Combustible material in workspace			Refer to Hazardous material		
		Fire Compartmentation			Refer to Fixed fire suppression		
		Sprinkler effectiveness			100% coverage by effective fire pumps		
UTC	3	Combustible material in workspace			Refer to Hazardous material		
		Earthquake damage prevention					
UDG	3	Nil					
UID	6	Hazardous material control			Refer to hazardous material		
		Overall fire protection maintenance			Maintenance Schedule; functional test		
		Sprinkler protection			100% coverage by effective fire pumps		
		Fixed fire protection system			Refer to Fixed fire suppression		
UMY	2	Process ignition control (Plating line immersion heater interlock)			Install interlock device; improve heat method		
		Fixed fire protection system			Refer to Fixed fire suppression		

Risk mitigation flow chart:



A. Corporate Governance and Compliance

As a leading semiconductor testing and assembly services company, UTAC is committed to corporate social responsibility and complies with the RBA (formerly EICC) Code of Conduct.

The RBA Code of Conduct provides a set of principles on Labor, Health & Safety, Environmental, Management and Ethical issues in the electronics industry supply chain. As a company that adheres to the RBA Code of Conduct, we welcome a third-party assessment every three years to ensure our policies and procedures are in line with the code that we have pledged commitment to.

UTAC’s operations are in compliance with the RBA and Environmental, Health and Safety (EHS) guidelines, and we have put in place a system compliance matrix:



Risk Mitigation and Business Continuity Plan



As a global business with operations around the world, UTAC recognizes the importance of being prepared for and equipped to respond to risks to minimize any potential impact on our business. To achieve this, UTAC has developed comprehensive business continuity plans with detailed measures to manage risks and mitigate the impact of potential risks, as well as put in place recovery plans should any risks materialise.

UTAC potential risk Classification & management; and plan

UTAC Risk management classification and plan		
Equipment risk assessment:		
	Risk Classification	Risk Management Plan
High (As risk ranking 1&2)	1. Equipment is from a single source with no alternative site 2. No alternative supplier capable to manufacture the same equipment 3. No same equipment / capability in UTAC (same or other site)	1. Work with supplier for business continuity plan 2. Immediate qualification (within 1-2 quarters) of alternative source
Medium (As risk ranking 3)	1. Have alternative source or supplier site with the same capability but located in 2. No same equipment in other UTAC sites	1. Qualification of alternative source or material (within 2-3 quarters)
Low (As risk ranking 4)	1. Have alternative source or site with the same capability and are located in a 2. Site have more than one equipment. Other UTAC sites have the same	No immediate action needs
Material risk assessment:		
	Risk Classification	Risk Management Plan
High (As risk ranking 1&2)	single source with no alternative site. No alternative supplier with similar capacity	1. Work with supplier for business continuity plan 2. Immediate qualification (within 1-2 quarters) of alternative source 3. Regular review inventory level / commitment to 13 weeks rolling forecast
Medium (As risk ranking 3)	1. Have alternative source or supplier site with the same capability but located in the same region	1. Regular review of supplier's inventory level 2. Qualification of alternative source or material within (2-3 quarters)
Low (As risk ranking 4)	1. Availability of alternative source or site with the same capability, alternative source or site is located in a different region	1. No immediate action needs 2. Regular review of supplier's inventory level 3. Continue review of supplier's performance and support (Supplier business)

Risk Classification Matrix					
		Severity			
		Low (1)	Moderate (2)	High (3)	Major (4)
Likelihood	Very High(5)	2	2	1	1
	High(4)	3	2	2	1
	Moderate (3)	3	3	2	2
	Low (2)	4	3	3	2
	Very low (1)	4	4	3	3

In order to ensure the value of UTAC's business continuity plan, UTAC conducts regular audits of our systems and processes, including a third-party audit from the Environmental Management System (EMS) and the Occupational Health & Safety Advisory Services (OHSAS). The EMS and OHSAS provide the framework for UTAC to determine appropriate environmental, health and safety regulations; and assess the environmental and hazards impact and to identify significant impact, subsequently, initiate control procedure. UTAC has been granted ISO14001, OHSAS18008 and TS16949 certifications.



Key Certifications and Recognition

In an effort to continuously improve UTAC’s sustainability plan and health and safety performance, the company has enforced a “plan-do-check-act” (PDCA) model to encourage on-going enhancement of UTAC’s systems, processes and platforms.

Through this method of consistent development, UTAC has secured the following certifications and awards:

Site	Recognition & Awards	Date
UTL	Good Governance Award 2017 by Dept. of Business Development, Ministry of Commerce	Jan 2018
UDG	Top 20 Export Revenue Award 2017	Jan 2018
UDG	Employee Satisfaction Enterprise Award from Dongguan government	Feb 2018
UTC	Charity Recognition Letter from World Vision	Feb 2018
UTC	Charity Recognition Letter from St. Joseph Social Welfare Foundation	Mar 2018
UTL	AEO Certificate by Thai Custom Department	Apr 2018
UID	Gold Medal Award for Safety Management System	Apr 2018
UMY	Recognition Letter from Malacca General Hospital. Participation in Blood Donation Campaign	Apr 2018
USG1 & USG2	Blood Recognition Letter from Singapore Red Cross Society	May 2018
UTL	Zero Accident Campaign Award 2018	Jun 2018
USG1 & USG2	Plant a Tree Programme Certificate from NParks	Jun 2018
UDG	Charity Recognition letter from Free Lunch	Jun 2018
USG1	‘Skills Future Employer Award 2018’ from President of the Republic of Singapore	Jul 2018
UDG	Green Manufacturing Grade A award	Aug 2018
UMY	National Day Parade (independent day celebrations) Recognition Letter from Malacca State	Aug 2018
UTC	Testimonial Letter from Government for Talent Cultivation Assistance Program	Aug 2018
UTC	Charity Recognition Letter from St. Joseph Social Welfare Foundation	Sep 2018
UTC	Coastal Cleanup Recognition Letter from TOAF Foundation	Sep 2018
USG2	Certificate of Appreciation for Participating in Mass Fire Evacuation Drill 2018	Sep 2018
UTL	Good Governance Award 2018 by Dept. of Business Development, Ministry of Commerce	Sep 2018
UDG	Charity Recognition flag from Dongguan Elderly Home	Sep 2018
UDG	AEO Re-certification by China Customs	Sep 2018
UTL	Thai Chamber of Commerce Best Awards 2018	Oct 2018
USG2	Bronze award from the Community Chest (ComChest)	Oct 2018
USG2	An appreciation memento from the United Workers of Electronics & Electrical Industries (UWEEI)	Oct 2018
UDG	Blood donation recognition Letter from Dongguan blood center	Nov 2018
UTC	Blood Recognition Letter from Taiwan Blood Service Foundation	Dec 2018
UTC	Charity Recognition Letter from Children Are US Foundation	Dec 2018

B. Environment and Climate

UTAC strives to reduce the environment and climate impact of our operations through active efforts in boosting energy efficiency while reducing our carbon footprint and managing resources effectively to lower energy consumption. We do this through technological innovations to provide customers with



energy efficient and environmentally-friendly products and solutions, as well as working with our partners and suppliers to reduce environmental impact throughout the product lifecycle.

We focus on using resources wisely and promoting environmental-friendly process application to conserve energy and reduce consumption of electricity, water, raw materials; reduce carbon footprint; minimize waste generation and avoid intractable waste generation; maximize waste reuse and recycling; and treat and dispose waste responsibly in accordance with the relevant laws and regulations.

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

- The RoHS (Restriction of Hazardous Substances) Directive, which originated in the European Union, and restricts the use of six hazardous materials found in electrical and electronic products.
- The Montreal Protocol on Substances that Deplete the Ozone Layer

Carbon Footprint and Environmental Protection

Environmental protection is a fundamental requirement in all that we do. UTAC is committed to address climate change challenges through measures and initiatives to proactively minimize our carbon footprint and greenhouse gas emissions, and to continuously enhance environmental-friendly processes and practices that are in line with industry standards throughout our operations in Singapore, Thailand, Taiwan, China, Indonesia and Malaysia.

In 2018, UTAC’s CO2 discharge was 235,474 tons, representing a reduction of 60,445 tons or a significant 20.3% reduction, taking 2012 data as the baseline when measured against business output volume in each year.

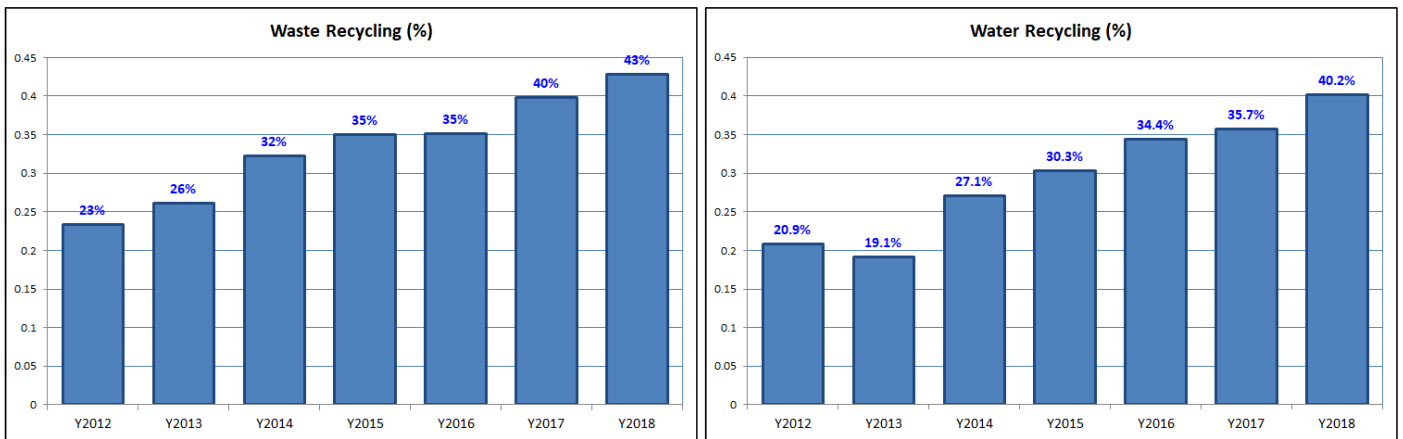
CO ₂ Emission Reduction Vs Y2012 Base Year (%)				
Year	CO ₂ Emission (Tons)	% Reduction vs Pre-Year	CO ₂ Reduction vs Pre-Year (Tons)	% Reduction vs Y2012 as Base
2012	295,919	-----	-----	-----
2013	271,268	-8.3%	-24,652	-8.3%
2014	263,362	-2.9%	-7,905	-11.0%
2015	252,552	-4.1%	-10,810	-14.7%
2016	250,657	-0.8%	-1,895	-15.3%
2017	248,055	-1.0%	-2,602	-16.2%
2018	235,474	-5.1%	-12,580	-20.4%
2019				

UTAC had reduced 12,580 tons CO2 discharge or protected 419,333 trees on climate change performance in 2018 Vs 2017



Resource Management and Energy Conservation

At UTAC, environmentally responsible behaviour is an essential part of our philosophy. We take action to minimize our impact on the environment in every facet of our business. By efficiently and effectively managing UTAC's resources, we aim to minimize our carbon footprint, maximize energy conservation and improve water management. Furthermore, we realize that environmentally-responsible behaviour can only be achieved if employees at every level play their part. This is why we have ongoing programs to raise awareness and encourage UTAC employees to participate in energy conservation, recycling and responsible waste management initiatives.



Water Conservation

To enhance water conservation, we utilized reclaimed water for 40.2% or 1,222,712 m³/year of our water usage through a micro filtration system in 2018. Water conservation is a key pillar in UTAC's 2018 environmental sustainability plan.

Waste Management

UTAC's approach to waste management starts with using resources wisely and applying environmentally-friendly process to avoid intractable waste generation, minimize waste through recycling and reuse, and responsible treatment and disposal of waste in compliance with regulations where waste cannot be eliminated.

Through UTAC's waste management strategy, we have minimized waste generation by 43% or 2,291 tons in 2018. We have developed a strategy that encompasses the following to control waste generation and ensure that waste is treated and disposed of responsibly that encompasses the following:

- Avoid generation of intractable wastes
- Encourage waste minimization
- Encourage waste reuse, recovery and recycling
- Regulation collection, treatment, and disposal
- Monitor and audit collection, treatment and disposal
- Promote and support educational and training programs around waste responsibility