

2018

tipa environmental report



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We, Toshiba Industrial Products Asia, Co., Ltd. (TIPA), are a Japanese manufacturing company located in Amata Industrial Park, Bien Hoa City, Dong Nai Province since December 2008.

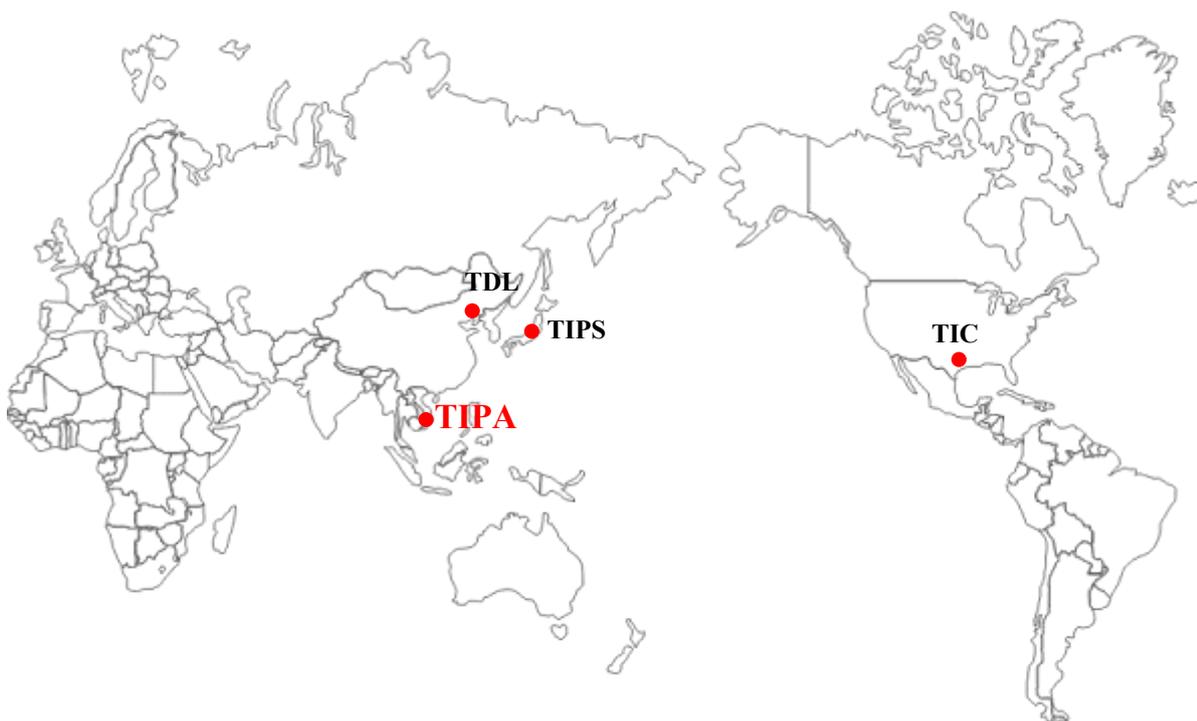
Our products are the premium efficiency motors (Low Voltage, 200HP or less) for industrial use which comply with the industrial regulations that lead to the reduction of CO₂ emission, energy consumption, etc. in certain countries and regions respectively.

In other words, we, TIPA, produce the motors which are very friendly to our environment.

Based on the management policies of Toshiba group, all group companies are required to pursue CSR* management and execute environment-friendly operations including the accreditation of ISO14001. Therefore, we, as a member of Toshiba group companies in Vietnam, have executed the environmental activities since 2011 and got ISO14001 certification in Feb 2012. In 2016, we had finished the transition to ISO 14001:2015 in December after 6-month preparation.

This report aims to contribute to the environment protection in Vietnam by introducing our activities in Fiscal Year (FY) 2018 (from April 2018 to March 2019) to our business associates and exchanging the ideas and opinions about the environment protection measures by corporations. Thus, it will be highly appreciated and our pleasure if you read this report and give us your feedback.

*CSR : Corporate Social Responsibility



INTRODUCTION OF TOSHIBA INDUSTRIAL PRODUCTS ASIA CO., LTD

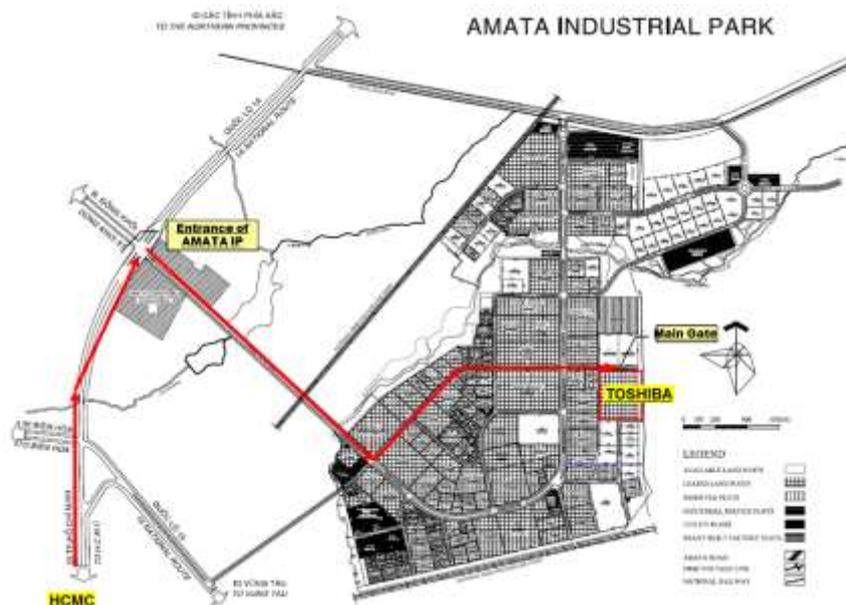
Established in 2008, Toshiba Industrial Products Asia (hereafter called TIPA) is a Vietnam-based subsidiary of Toshiba Group Corporation. TIPA’s new facility is to manufacture and export high-efficiency industrial motors that are rated at 75kW or less and meet global standards.

Toshiba has given its support to the growth of society up to the present day through over 120 years of the development and manufacturing of motors.

Toshiba Industrial Products Asia and its new production facility as its eighth operation in Vietnam and its integral part of Toshiba Group’s global network of manufacturing bases for motors, alongside Toshiba Industrial Products and Systems Corporation in Japan, Toshiba International Corporation in the United States of America and Toshiba Dalian Co.,Ltd in China.

COMPANY PROFILE

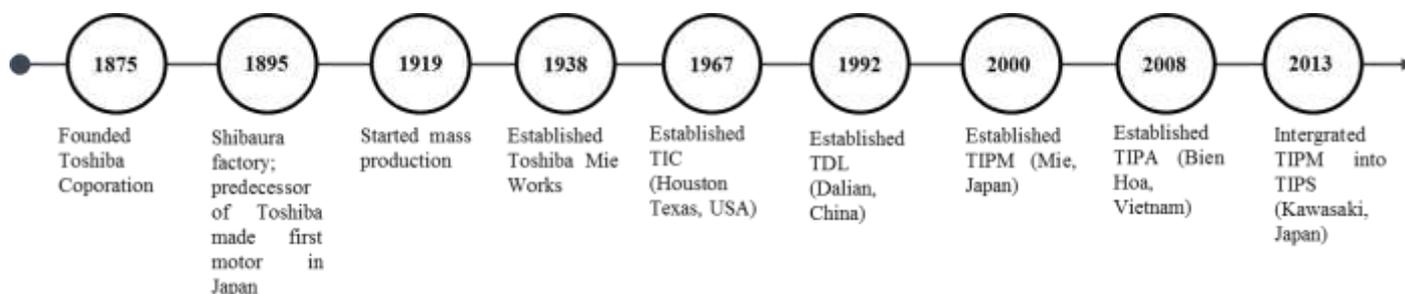
Company Name	Japanese: 東芝産業機器アジア社 English: Toshiba Industrial Products Asia Co.,Ltd (TIPA)		
Location	AMATA Industrial Park , Bien Hoa City, Dong Nai Province, Vietnam		
President	Hideyuki Nakaho		
Establishment	Dec 22, 2008	Capital	USD 29 million
Start operation	Sept 22, 2010	Shareholders	Toshiba Group 100%
Business	Manufacturing of High Efficiency Electric Motors for Industrial Use (Low Voltage, 75kW or less)		
Certification	ISO 9001:2015 DEC 2016, ISO14001:2015 DEC2016, OHSAS 18001:2007 NOV2012		



TIPA Location in AMATA Industrial Park

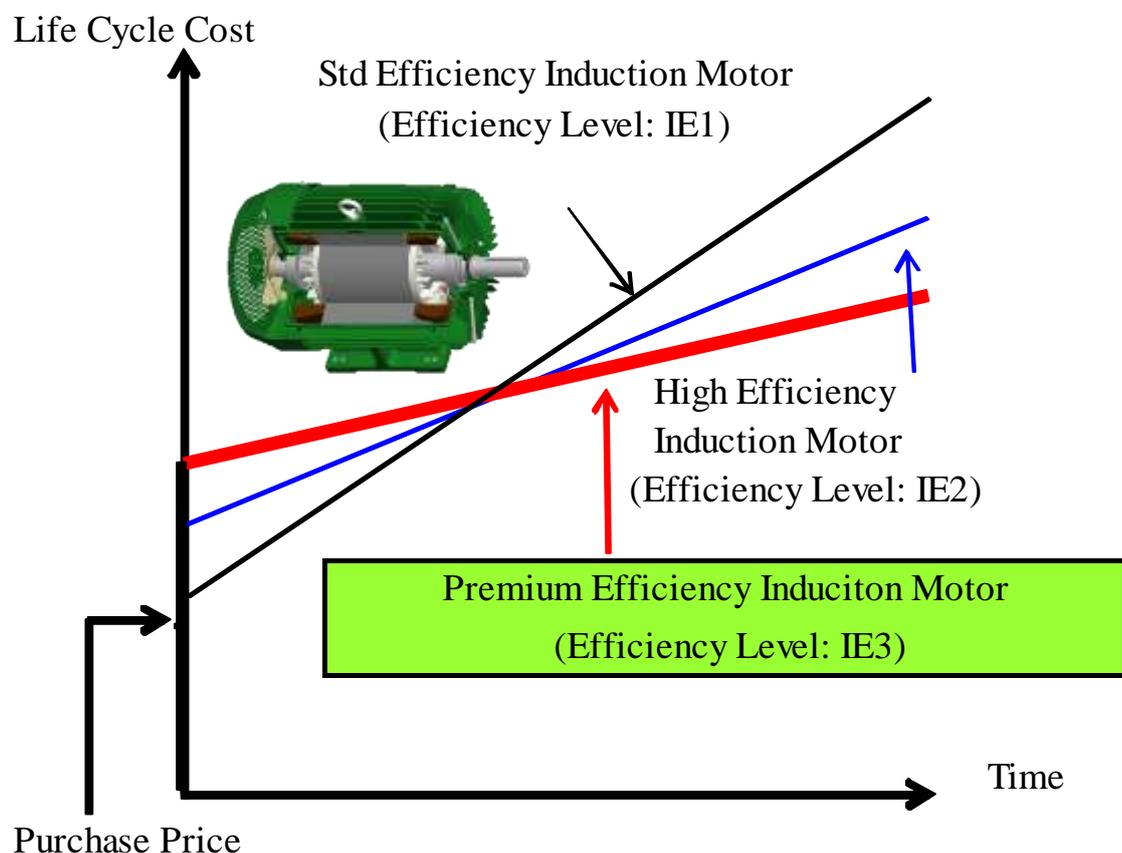


HISTORY OF TOSHIBA MOTOR BUSINESS



FEATURES OF TOSHIBA HIGH EFFICIENCY MOTORS

- ◇ High efficiency performance at the global forefront in a compact, lightweight design
- ◇ Reduce environmental impact and longer product life.
- ◇ Tireless pursuit of the noise-causing factors and greater noise suppression through the latest technologies.
- ◇ External dimensions are the same as standard motors, making them interchangeable with existing installed customer base.
- ◇ Additional energy savings through the motors ability to work with inverter technology.



THE ESSENCE OF TOSHIBA

The Essence of Toshiba is a statement of our unwavering credo as an organization. It has three components. The Basic Commitment of Toshiba Group, Our Purpose, and Our Values.



- **Basic Commitment of The Toshiba Group**
Our enduring credo: What we believe and promise to deliver.
- **Our Purpose** Our reason for being: Inspired By the credo, the difference we make for customers and society.
- **Our Values** Our Shared beliefs: A guide to action and the thorough implementation of Our Purpose.

Basic Commitment of The Toshiba Group

**Committed to People,
Committed to the Future.**

At Toshiba, we commit to raising the quality of life for people around the world, ensuring progress that is in harmony with our planet.

Our Purpose

We are Toshiba. We have an unwavering drive to make and do things that lead to a better world.

A planet that's safer and cleaner.

A society that's both sustainable and dynamic.

A life as comfortable as it is exciting.

That's the future we believe in.

We see its possibilities, and work every day to deliver answers that will bring on a brilliant new day.

By combining the power of invention with our expertise and desire for a better world, we imagine things that have never been – and make them a reality.

That is our potential.

Working together, we inspire a belief in each other and our customers that no challenge is too great, and there's no promise we can't fulfill.

We turn on the promise of a new day.

Our Values

- Do the right thing** We act with integrity, honesty and openness, doing what's right— not what's easy.
- Look for a better way** We continually strive to find new and better ways, embracing change as a means for progress.
- Always consider the impact** We think about how what we do will change the world for the better, both today and for generations to come.
- Create together** We collaborate with each other and our customers, so that we can grow together.



CHAPTER 2: TOSHIBA GROUP ENVIRONMENTAL MANAGEMENT SYSTEM

ENVIRONMENTAL VISION 2050

The world population topped seven billion in October 2011, and rapid population growth and the urbanization of populations are expected to continue to occur mainly in the emerging countries of Africa, Asia, etc. As a result, there are food, water, and energy shortages and the non-renewable resources that support today's society, including fossil fuels, metals, and minerals, are decreasing in number. In addition, the temperature is rising due to the effects of global warming, causing serious problems worldwide, including floods, droughts, and enormous typhoons. These various problems have complex interrelationships, and their effects spread by the year. Against this backdrop, the U.N. Sustainable Development Goals (SDGs) came into effect in January 2016 alongside Paris Agreement, which was put into effect in November of the same year to provide a new international framework to prevent global warming. Thus, guidelines and rules shared worldwide aiming to resolve global issues have been developed one after another in recent years. As the international community becomes increasingly aware of environmental issues, companies engaged in global business activities must do more than before to resolve such issues. We believe that as a member of the international community, Toshiba Group has the responsibility of helping resolve global environmental issues through our activities in four business domains: energy, electronic devices, and digital solutions centering around social infrastructure.

To fulfill this responsibility, Toshiba Group has developed Environmental Vision 2050, a corporate vision that envisages affluent life-

styles in harmony with the Earth as an ideal Environmental Vision 2050 Toshiba Group practices environmental management that promotes harmony with the Earth, contributing to the creation of affluent lifestyles for society. situation for mankind in 2050, and will work to realize this vision. Throughout the life cycle of products from manufacture and use to recycling and reuse, Toshiba Group will strive to provide safer and more comfortable lifestyles and create enriched value for customers. Toshiba Group will also strive for harmony with the Earth by working to mitigate climate change, using resources efficiently, and managing chemicals properly in order to reduce environmental impacts



Source: 2018 Environmental Report by Toshiba



TOSHIBA GROUP'S THE SIXTH ENVIRONMENTAL ACTION PLAN

◆ Business

*** Achieved **Almost achieved *Significantly fell short of goals

Activity area	Activity content		FY2017			FY2018	FY2020
			Target	Result	Evaluation	Target	Goal
Reducing environmental impacts in manufacturing	Reduction of total greenhouse gas emissions ^{*1}		1.46 million t-CO ₂	1.27 million t-CO ₂	***	1.54 million t-CO ₂	1.66 million t-CO ₂
			We further reduced greenhouse gas emissions by actively promoting energy-saving measures and by improving production efficiency at each site.				
	Improvement of total energy-derived CO ₂ emissions per unit activity (Compared to FY2013 level)		98%	97.8%	***	96%	92%
			We further improved total energy-derived CO ₂ emissions per unit activity by actively promoting energy-saving measures and by improving production efficiency at each site.				
	Reduction of waste volumes ^{*2}		45,000 t	37,000 t	***	48,000 t	52,000 t
			We further turned more waste into valuables and minimized waste volume through efforts to improve production processes and sort waste more carefully.				
	Improvement of the total volume of waste generated per unit production (Compared to FY2013 level)		99%	86%	***	98%	96%
We further improved the total volume of waste generated per unit production by working to improve production processes.							
Improvement of the amount of water received per unit production (Compared to FY2013 level)		99%	89%	***	98%	96%	
		We further improved the amount of water received per unit production by reusing water at the sites such as semiconductor sites that normally consume large amounts of water					
Reduction of the total amount of chemicals discharged per unit production (Compared to FY2013 level)		99%	79%	***	98%	96%	
		We further reduced the amount of chemicals discharged by taking such measures as to deal with solvents which ranked high among our emissions and to use alternative substances					
Improving environmental performance of products and services	Increased reduction of CO ₂ emissions (cumulative total)	Power supply ^{*3}	9.6 million t-CO ₂	9 million t-CO ₂	**	12.9 million t-CO ₂	16.3 million t-CO ₂
		Power consumption ^{*4}	We worked to develop and spread a wide range of energy technologies, such as hydroelectric, geothermal, photovoltaic power, and high-efficiency thermal power.				
	Increased amount of resources saved (cumulative total)		100,000 t	99,800 t	**	180,000 t	460,000 t
			We significantly reduced resource consumption for products in each area.				
	Increased amount of recycled resources (recycled plastics) used (cumulative total)		740 t	851 t	***	1,500 t	3,000 t
We increased their usage in multi-function printers and industrial air conditioners.							
Reduction of specified chemical substances contained in products Using alternative materials for four phthalates ^{*5} or identifying alternatives for all products by July 2019			Using alternative materials completed for hard disks and POS systems. Shipment of alternative products for POS systems also started.	**	Activities will be continued		

Source: 2018 Environmental Report by Toshiba Group

CHAPTER 2: TOSHIBA GROUP ENVIRONMENTAL MANAGEMENT SYSTEM

TOSHIBA GROUP'S THE SIXTH ENVIRONMENTAL ACTION PLAN

◆ Management

Activity area	Activity content	FY2017		FY2018	FY2020
		Result	Evaluation	Target	Goal
Ensuring of environmental risk compliance	Enhancement of compliance with global environmental regulations and human resource development •Reviewing of measures to ensure compliance with global environmental regulations •Enhancement of local networks of environmental human resources at overseas production sites	•The number of violations of laws and regulations was zero. •We created a mechanism for distributing global legal information internally and identifying issues in a timely manner. •We prepared for a study meeting on legal issues for persons responsible for the environment at our Chinese sites, which led to a scheduled meeting to be held next year	**	Activities will be continued.	
Environmental communication	Improvement of information disclosure •Improvement of reporting based on external requirements	•Toshiba Group Environmental Report 2017 received an award of merit in the Ministry of the Environment's Environmental Communication Awards in Japan.	***	Activities will be continued.	
	Development of networks with stakeholders •Enhancement of communication with customers through Toshiba Group Environmental Exhibition and education program at Toshiba Science Museum •Enhancement of communication with local communities by implementing Global Environmental Action at our sites worldwide	•We held 26th Toshiba Group Environmental Exhibition, which received nearly 3,000 visitors. •We held educational programs for elementary schoolchildren at Toshiba Science Museum and elementary schools about 30 times. •Energy-saving events, education activities etc. were carried out in Japan, Europe, Americas, Asia, and China.	***	Activities will be continued.	
Conservation of biodiversity	Contributions to Aichi Targets •Choosing 10 of the 20 Aichi Targets as Toshiba goals to develop measures at our sites worldwide	•We conducted activities toward achieving Aichi Targets at approximately 70 sites worldwide.	***	Activities will be continued.	

Note : Values related to the energy consumption required for manufacturing (nominal production amounts, number of products manufactured, number of persons, total floor area, etc.) are used for basic-unit goals for greenhouse gas emissions. For waste, water, and chemical substances, volume-based nominal outputs are used as an indicator for basic-unit goals that allows appropriate assessment.

*1 The CO₂ emission coefficient for electricity in Japan is 5.31 t-CO₂/10,000 kWh. Electricity outside of Japan is based on GHG Protocol data.

*2 Obtained by deducting the volume of objects with value from the total volume of waste generated (excluding the sites engaged in waste treatment and power generation)

*3 Reductions in emissions from products and services associated with power supply such as power plants. The calculation method is as follows: Compare with CO₂ emissions (rate to net production output) for average thermal power of the same fuel type; for renewable energy, compare with CO₂ emissions (rate to net production output) for average thermal power of all types; an accumulated total of annual reductions plus reductions achieved by newly built power generation systems. Acquire the accumulative total amount of contribution through power generation in a single-year and at newly installed facilities.

*4 Reductions in emissions from products and services associated with power consumption such as social infrastructure products. The calculation method is as follows: [CO₂ emissions of assumed substitute products – CO₂ emissions of shipped products] (Compares emissions per year during the usage stage and cumulates emissions for half the expected number of years of use)

*5 Bis (2-ethylhexyl) phthalate, butyl benzyl phthalate, di-n-butyl phthalate, and diisobutyl phthalate. These substances are used mainly as plasticizers for plastics (e.g., cable coatings) and there is some concern about their effects on the human body.

Source: 2018 Environmental Report by Toshiba Group



QUALITY, SAFETY & HEALTH AND ENVIRONMENTAL POLICY
(REVISION 02)

Compliance with TSB Group's business principle "Committed to People, Committed to the Future", Toshiba Industrial Product Asia –as the manufacturer of environment-friendly motors for the global market which save energy – promotes our business activities with respect for Vietnamese custom and culture as well as customer's.

TIPA always realizes that quality, safety, health environment and compliance with law are the first priorities. We are interested in the penetration of our eco-friendly motors with good quality to society, making a safety, comfortable workplace as well as reinforcement of environmental protection activities, health protection for all employees. In its environmental protection activities, TIPA contributes to achieve Toshiba's Environmental Vision 2050 - a corporate vision that envisages affluent lifestyles in harmony with the Earth and the current Environmental Action Plan and realize the society with less electricity consumption and CO₂ emission and conservation of natural resources by the spread of the environment-friendly, premium efficiency motors.

Therefore, Toshiba Industrial Products Asia Co.,Ltd commits that:

I. Quality

- 1) Enhance customer satisfaction through continually improving the quality of our product and servicing
- 2) Observe related regulatory and contractual requirement and respect the rights of customers and third party people
- 3) Develop our quality mind, and promote to enhance the technology and skill
- 4) Each employees is involved in " In process quality control" in one of the process
- 5) Pursue the root causes of nonconformities to utilize the experience for enhancing the qualities of future products.

II. Safety, health and environment (SHE)

- 1) Comply with national regulation and law relating to safety health and environment; Toshiba Group's policies and regulations regarding to SHE matter and other requirements which are from interested parties are accepted by TIPA
- 2) Establish SHE objectives and implement environmental protection, health-safety activities base on these frameworks:
 - Stop happening labor accident; minimize ill health; prevent environmental pollution and risk; and narrow scope of effect of environmental impacts and risk of occupational health, safety.
 - Promote energy saving and reduce CO₂ emission, chemical consumption and total waste to support building of the recycling-oriented society and global environment conservation.
 - Enhance health, safety and environmental awareness and biodiversity preservation in local community.
- 3) Support our customers and interested parties in implementation of health, safety and environmental activities to ensure that they do not impact on health, safety and environmental matter in relation with our company.
- 4) Ensure the consultation and participation of workers in the development, planning, implementation, performance evaluation and actions for improvement of SHEMS. Disclosure our practices and achievements of health, safety and environmental management properly to contribute to the development of SHE management in local community.
- 5) Continually improve SHEMS to ensure that it remains relevant and appropriate to the scale and operation of our company.



HIDEYUKI NAKAHO

General Director

TOP MANAGEMENT ENVIRONMENTAL MESSAGE IN JULY 2019



Hi everyone,
Time goes too fast, year by year, environment activities becomes annual and a private symbol of TIPA. We are familiar with these activities, and now customers, suppliers and companies around here also know our annual actions.

We are executing environment actions such as: Special Energy Saving Month (March), Environment Month (June), and 3R Month (July) (Reduce-Reuse-Recycle). In this 3R Month, we have many events: Mottainai Bazaar Charity, exchange bulbs and batteries to get gifts, etc. We are very hopeful with your joining!

By the way, one subject I would like to share with you: Limit to use plastic or follow UN environment call is “**Beat Plastic Pollution**”. All things made by plastics are more popular in our life. Since appeared the 20th century, they have changed human habit. Low product cost, different ways to use and “reliability” help them to beat products made by metal and porcelain. However, this “reliability” with environment becomes dangerously environment problems on over the world.

Scientists estimate that plastics take 1000 years to decompose in the natural. And they are not completely decomposed, they just separated to smaller and continued destroying environment. Plastic pollutions prevent ocean bottom’s flora and fauna from absorbing sunlight, then reduce ecosystem on ocean bottom, feed, livings. We have no stranger with turtles, seals were stacked on plastic or when we eviscerate seagulls, kingfishers and discover...plastics?

Currently, Vietnam ranks 4th in the world which pollutes 730,000 tons plastic wastes each year to the ocean and 80% of plastic waste originates from the mainland. Of course, they can be treated by incinerator, but it takes too much fuel, transport, distinguish and operator, etc.. The best solution is reduction to use products from plastics. I’m very happy to know that Vietnam is the first one in South-East Asia on the campaign to beat plastic pollution. At the moment, Vietnam supermarkets have cotton bag for buyers and encourage them to use it many times. I also know Coop-mart supermarket use banana leaves to package foods, vegetables, buyers said that it make they felt in 30 years ago. This changes attack Singapore and Thailand communication attentions, and their supermarkets consider to applying in their systems. At TIPA, we usually give a cotton bag to TIPA members and customers, I see their interests and high appreciation to this action of us.

In the past time, I also heard that some beaches covered by waste is revived miraculously, it was made well by youth inspiration and social media. In some way, it like our effort to protect environment, we have social media to update environment activities, I want you to join in and share, it will make a positive power from TIPA to community.

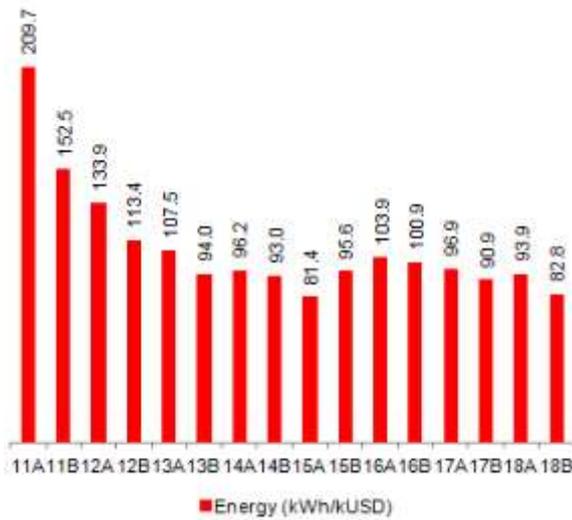
The world is changing day by day, the pressure from world trade conflicts creates unpredictable risks. On that status, customers prioritize to partner who accommodate about quality, volume, environmental friendliness and influence to society. By our effort, I believe TIPA can do that.

Yours Sincerely ,

HIDEYUKI NAKAHO



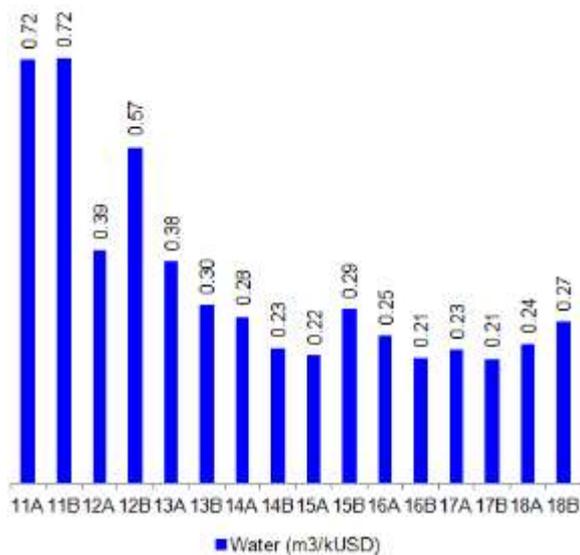
RESULT OF ENVIRONMENTAL OBJECTIVES AND TARGETS IN FY2018



Trend of energy consumption



Trend of CO₂* emission



Trend of water consumption



Trend of total waste generation**

In TIPA, we have focused on mitigation of climate change by reducing CO₂ emission as well as energy saving; efficient use of natural resources, such as water, raw material; waste management.

Trend graph management of these indices can help us to control them as our environmental footprint.

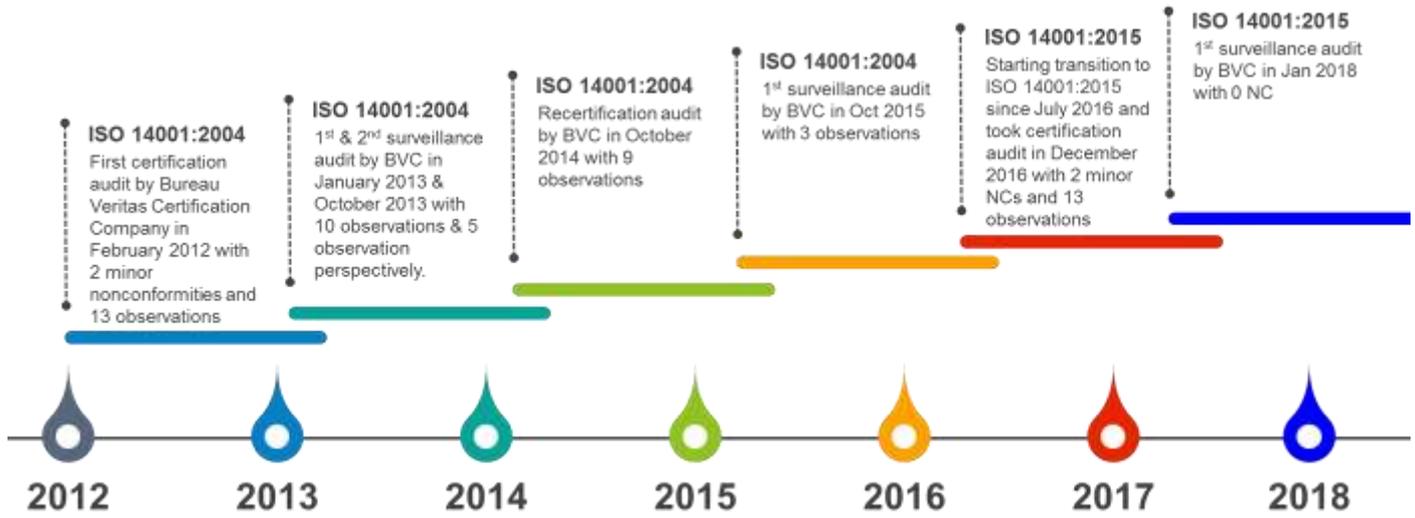
In FY2018, the trend graph of almost environmental indices went down compare to previous semesters except for water consumption index. This result reflected our efforts to achieve our targets but they were not enough and we have to try more in FY2019 to achieve all our environmental objectives and targets, including water consumption.

*) Almost CO₂ emission in TIPA is CO₂ emission by electrical power.

***) Total waste includes sellable waste (scrap) and non-sellable waste (daily waste and hazardous waste).



ISO 14001:2015 CERTIFICATION AUDIT



Milestone of ISO&OHSAS certification

TIPA has been certified ISO 14001:2004 international standard since February 2012. In line with release of ISO 14001:2015 in September 2015, TIPA had decided to update its ISO 14001:2004 to ISO 14001:2015 in FY2016. We started preparation in July 2016 and obtained the ISO 14001:2015 certificate in February 2017. We passed the 1st surveillance audit of ISO 2015 version in Jan 2018 by BV with 0 Non Conformity (NC).



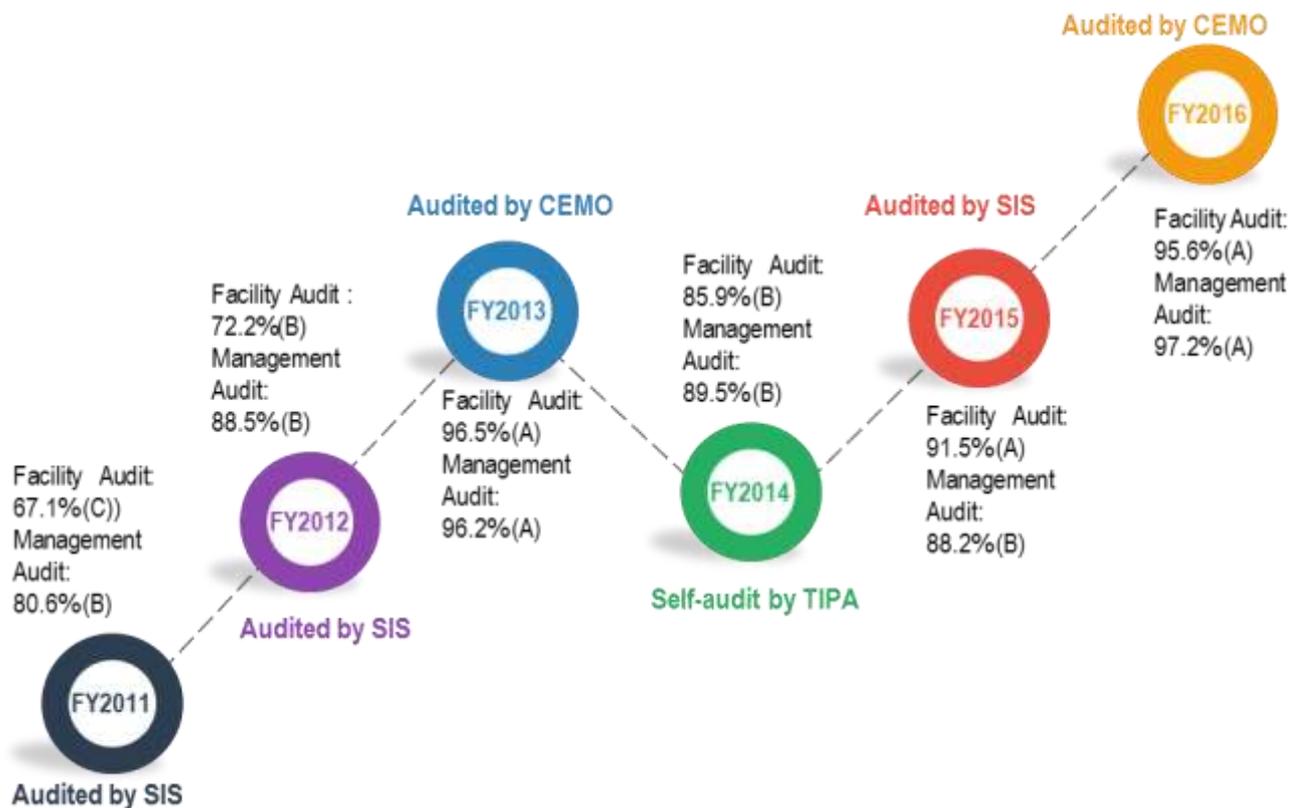
Certificate corner



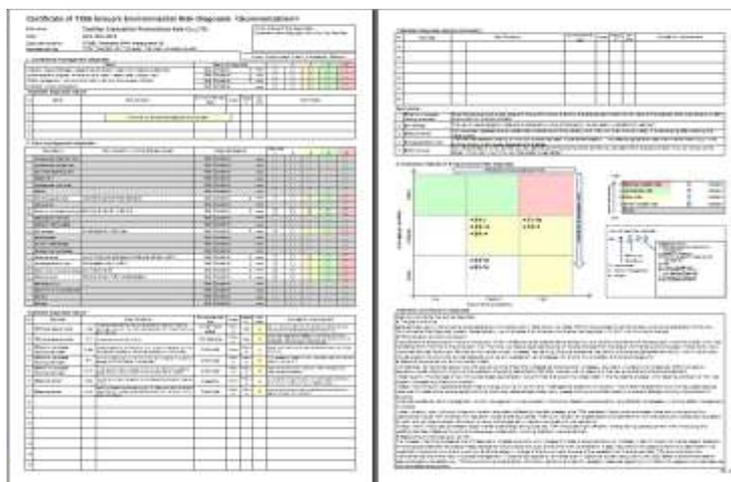
ISO 14001:2015 Certificate



TOSHIBA ENVIRONMENTAL AUDIT



Since FY 2017, due to rearrangement of Toshiba Group, TIPA is under parent company named Toshiba Infrastructure Systems & Solutions Corporation (TISS). TISS has decided not apply Toshiba’s long lasting environmental audit any more and developed its own environmental auditing system called Environmental Risk Diagnosis (ERD). Due to changes in business, people, external environment, etc., the risks of factories are also changing day by day. Risk management and improvement are fundamental to environmental management activities and essential for stable business operation. ERD is a tool for maintaining preventive maintenance by checking the status of its own factory once a year just like regular health check up for human being and identifying potential risks. Due to some reasons, the annual ERD in FY2018 in TIPA is going to be done in Oct-2019 by TISS experts.



TIPA FY2017 Certificate of risk diagnosis

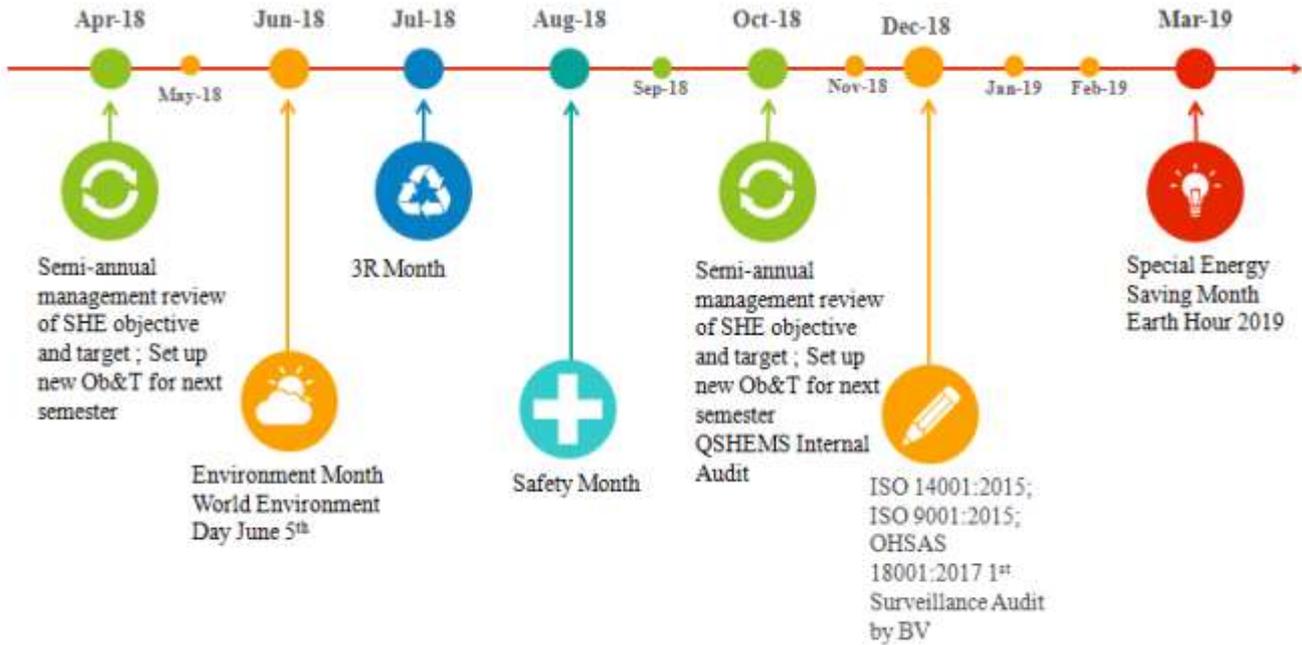


HRA members and TISS Risk diagnosis experts



ENVIRONMENTAL MONTHS & SCHEDULE

Environment activities in corporations require the participation of all the employees and the enhancement of the employees' awareness plays the important role there. In TIPA, we have conducted many environmental activities throughout the year. It is expected that our activities can reach more people as much as possible, not only TIPA's employees but also outsiders, such as local students, suppliers, contractors, etc. Here is our environmental schedule in FY2018.



Followings are detail agenda of three environmental months in FY2018. They are Energy Saving Month in March, Environment Month in June and 3R Month in July. We have tried to introduce at least one new activity year by year to enrich our program and attract more participation. Others were same activities with previous year but new content.

TOSHIBA
Leading Innovation 3.0

JUNE 2018
TIPA ENVIRONMENT MONTH

- Response to the World Environment Day 2018 theme "Beat Plastic Pollution" by hanging its banner in front of company gate.
- Issue TIPA FY17 Environmental Report.
- Game of tag - Photo challenge on social media: Managerial layer shall post a photo of their staff bringing their reusable drinking containers to the office every day (or something like that) and tag other colleagues, challenging them to do the same.
- Organize marathon contest TIPA Run for Green (#TIPARun4green): (Conditions: voluntary participants more than 20pax, on non-working day without overtime payment, reward: bicycles (one for male, one for female).)
- Tree-planting inside or outside TIPA.
- Clean up Amata Road.
- Participation in Environmental activities hold by local government (Dong Nai Youth Union or DONRE)(if any)

BEAT PLASTIC POLLUTION | WORLD ENVIRONMENT DAY | UN environment

JULY 2018 3R MONTH

Schedule

- From July 2 to 31: Post electronic 3R banner in Lobby (show on TV)
- July 2: Issue semi-annual SHE Message from General Director
- From July 2 to 31: Provide reusable cloth bag which can use many times for employees who take part in above environmental activities, such as Mottainai Bazaar, etc.
- From July 2 to 31: Organize contest "idea of desingation of outdoor trashbox". (Explanation: To ensure waste classification in outdoor of factory, we will change to type of outdoor trashboxes from the orange one to different one which support to classify waste (1st recycle and non-recycle (same thing like the trashboxes in rest area but for outdoor). If the design is acceptable and possible and PM member can do it, the reward shall be split into 2: 1 for idea and 1 for execution) -> This activity came from: [Trang san 8/2018](#)
- From July 9 to 21: Organize painting contest for kids with 3R topic: TIPA will sponsor drawing materials and tools for the kids.
- From July 9 to 21: Organize photo contest with topic: "TIPA employees & recycle products" (Explanation: In MFG, there are recycle things made from scrap or waste materials, participant shall take a picture of these (individuals also group) and their recycle products and send to HMA for participation. The picture will be printed out and hang on in public area (e.g. like environmental corner) -> This activity came from: [Liz Binh M.MFG](#)
- July 17 & 24: Collect waste fluorescent light light bulbs and batteries from employee's homes and give back studying stationaries (for their kids) to them. Additional: the participants will be required to write any environmental protection commitment on paper leaves and paste on commitment trees.
- July 22: Organize 5th Mottainai Charity Bazaar.

March 2019
TIPA Special Energy Saving Month

- SHE&Q Slogan Contest
- Donate your feeds/voices and switch on your social power at www.earthhour.org
- Power saving activities for a month
 - Hanging banners and posters in the factory to propagate Earth Hour campaign.
 - Light off from 7:45 - 8:40AM at MFG office and Admin office on Saturday working day (March 9th, 16th, 23rd)
 - Turn on the air-con at 8AM at all offices.
 - Thorough turn off unnecessary lights and power during break time in the factory.
- Activities on Earth Hour: March 30th
 - Light off from 20:30-21:30PM at home on March 30th
 - Participation on Earth Hour Activities by local agency (if any)
 - Post picture of light off at employee's home on TIPA Facebook Fanpage: www.facebook.com/tipa.vn



TREE-PLANTING ACTIVITY IN JUNE 2018



In tree-planting 2018

Since it has been started with 2-3 companies in 2012, Tree-planting activity hosted by Amata Joint Stock Company—the owner of Amata IP, has been getting bigger with more participation from

more companies year by year. Until the 2018, the number of companies those joined this tree-planting was 40 companies. It was more than 10 times bigger than its first started. TIPA has accompanied with this activity since 2013.

In tree-planting 2018, in response to the World Environment Day on June 5, Amata Company launched a campaign to plant trees in Amata Industrial Park, hundreds of employees of 40 enterprises operating in Amata Industrial Park planted trees to make green for Road 13 of the extended section 3A in Amata Industrial Park.

This event also was published on the online newspaper of Dong Nai at:

<http://www.baodongnai.com.vn/english/business/201806/amata-bien-hoa-urban-joins-hands-in-protecting-environment-2896807/index.htm>



In tree-planting 2013



In tree-planting 2014



In tree-planting 2015



Some kinds of tree planted by year



In tree-planting 2016



CLEANING UP ACTIVITY IN JUNE 2018



Environmental protection starts with small action. And cleaning up is such small action. Since 2012, it has become our tradition, in June every year, TIPA usually host a cleaning-up activity with top management participation.

To spread the environmental spirit to more people, we invited our neighbor companies to join with us. And Tri An Nestle and Amata company accepted our invitation. Together we cleaned and pick-up waste along the street and the back side of both companies where has been polluted by plastic bottles, plastic bags, leftover food, plastic box, so on on June 8th There were about 30 members took action this time including our General Director—top management. This cooperation action was not just a cleaning-up, it was also a message to those who may be our partners, suppliers about stop littering improperly and keeping the environment clean not only at their houses but also at public places like this. It is recognized that plastic waste has been occupied a big ratio in the trend of waste generation. So cleaning-up is not enough, we should take more action to reduce plastic waste generation. Let us think about it together.



In along with The World Environment Day in 2018, June 5th, with theme was “Beat Plastic Pollution”, there were so many cleaning up activities and a thousand of participation along the coast from North to South of Vietnam. On this occasion, we also practiced cleaning up the Vung Tau Beach during our annual company trip. This is a kind of team-building activity. All members were encouraged to pick-up plastic bottles, waste, etc on the beach. As a result, we collected about 3 buckets of waste. This activity is one of our ways to enhance the awareness of employees and local residence, etc.. on environmental protection.



THE 1ST MARATHON CONTEST (RUN4GREEN) IN JUNE 2018



Run for Green was a marathon contest for employees. This was the most favorite activity of us in June 2018.

As you know, Vietnam is one of the country where motorbikes are very popular and where people like to use motorbike to move when they have a business in a place just not to far from their home instead of walking. And motorbike is one of source of air pollution in Vietnam.

Therefore, Run4Green just was not a run for health, but a run for a green environment. It encouraged people to walk or biking more instead of riding motorbike. That's why the prize for the winner was a bicycle.

There were 50 employees participated the contest. It was classified 2 group for male and female, with 5 rounds of company premises (about 3.75 km) for male and 3 rounds (about 2.25 km) for female.

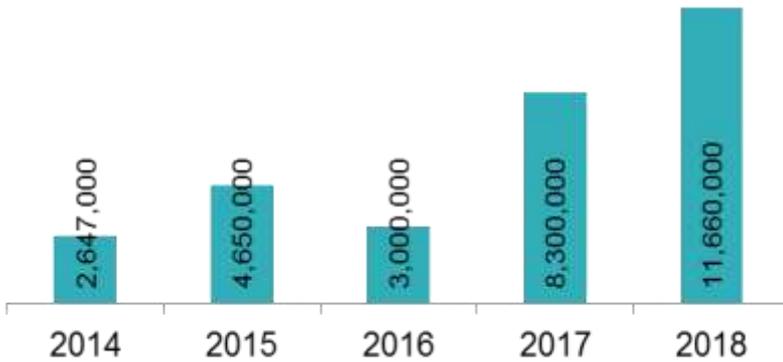
Each participant was provided a marathon kit including, Run4green T-shirt, armband and a participation number for identification.

The success of 1st run is a motivation for us to keep maintaining the marathon as one in the annual activities in TIPA, attracting the participation of all employees not only in such activities also all other activities.



THE 5TH MOTTAINAI CHARITY BAZAAR IN JULY 2018

Sale Amount of Mottainai Bazaar by Year



Since its 1st coming up in 2014, the Mottainai Bazaar has become bigger year by year. This is demonstrated by its sale amount. And in the 5th Bazaar in 2018, this number is 11.660.000 VND (appropriate about 500\$). This was biggest achievement ever in our history of bazaar.

To achieve this result, we have called for the giving not only from our employees but also from our colleagues, friends and families.

We expanded the scope of giving mottainai items to our neighbour companies in Amata IP. And there were so many valuable items giving to us. Through this report, we would like to express our sincere thanks to all of people who gave us mottainai items.

This time, we also utilized the technology 4.0 in our activity by organizing Online Mottainai Bazaar on Facebook after holding a gathering bazaar in field.

As our promise, we donated all the sale amount from the bazaar to The Dong Nai Children



Mottainai Bazaar in 2018 was held under green roof of guest parking lot



Mr. Fumiyoishi Takahashi - HRA General Department was receiving the thank you letter from the representative of Done Nai Children Hospital



PAINTING CONTEST FOR EMPLOYEES' KIDS IN JULY 2018



The painting contest is one of the activities for employee's kids, the environmental painting contest is most awaited not only by employees but also from their families. As every year, TIPA will support children with drawing paper and drawing colors. The Kids will complete their drawings and return them to the company through parents.

Children are the future of the country, forming awareness of environmental protection and green living with nature is very important. It will create people who think and live more in harmony with the environment later.

With topic "beat plastic pollution", The Painting contest this year had 68 children participated, and divided into two groups: Group 1: 5~10 years old; Group 2: 11~15 years old. Life around, dreams about a clean and beautiful environmental will be shown in bright colors, brilliant of the children. Beside that are the dusts, pollution and environmental disasters visualized by kids and shown through their artworks.

The difference thing from the previous year was the judges, they were included management layer and some operators who suggested by their superior. This thing was to ensure the fair judgment to all kids.

After the contest, the paintings were hung on the wall of canteen rest area where they could be seen by employees, supplier, visitors, etc.



Operators were judging the painting works



Painting wall



THE PHOTO CONTEST TOPICED “TIPA EMPLOYEE AND RECYCLE PRODUCTS” IN JULY 2018

Taking participation in this contest, the employees took photos of them or their team with any recycle product that them/their team made on their own or use or buy from anyone else, such as: buying a recycle product from gift shop and use it in their house or going to coffee shop where promote recycle products. Those photos were posted on TIPA Special Environment Months– TIPA official environmental facebook account. The photo which were liked the most by other people won the contest.

This was aim to not only encourage employees to practice 3R (reduce-reuse-recycle) but also promote and share this spirit to more people as much as possible via social network.

Below are some photos of employees and their recycle products. The photo of decorating light made from plastic cup won the contest this year with 103 LIKES.

ANNOUNCEMENT OF PHOTO CONTEST “TIPA employees and recycle products”

- ❑ **How to participate:**
 - Take a pictures of you or your team and any recycle product that you/your team made on your own or use or buy from anyone else, such as: you buy a recycle product from gift shop and use it in your house or you go to coffee shop where promote recycle products.
 - Send the picture in electronic file and leave information including your/your team name, your section & name of product to email address tram.ptm@toshiba-tipa.com.vn
 - There is no limitation for participated picture.
- ❑ **Timing for sending photo:** from now to the end of July 25th, 2018.
- ❑ **Contest rule:** All photos shall be posted on TIPA environmental facebook fanpage www.facebook.com/tipa.sem. The winner is the one whose picture are liked most on facebook.
- ❑ **Legal like on facebook fanpage as followings:**
 - **Step 1: You must LIKE TIPA fanpage (if you didn't before)**
 - **Step 2: Share the picture you like on your FB account in public.**
 - **Step 3: Like the picture you like on TIPA facebook fanpage.**
- ❑ **Prize:** only one prize values : **1.000.000đ**



HAZARDOUS WASTE COLLECTION DAY IN JULY 2018



Fluorescent bulbs are hazardous waste according to Vietnam regulation. Compact fluorescents, like their tubular fluorescent precursors, contain a small amount of mercury—typically around five milligrams. However, this amount is enough to contaminate 22680 litres of drinking water according to United State Environmental Protection Agency (EPA). Mercury is essential to a fluorescent bulb's ability to emit light; no other element has proved as efficient. However, mercury—sometimes called quicksilver—is also highly toxic. The problem comes when a bulb breaks, it will become dangerous not only to the environment but also to human health if it is not cleaned up and treated properly. It is especially harmful to the brains of both fetuses and children.

Mercury escapes as vapour that can be inhaled and as a fine powder that can settle into carpet and other textiles. That why we decided to organize a day to collect the bulbs from employees' houses in order to: 1) orient them how dangerous fluorescent bulbs is when it is not treated properly ; 2) treat them properly.



To continue the success of hazardous waste collection day in 2016 and 2017, we organized Hazardous Waste Collection Day in 2018 which was lasted for 2 days, July 17th and 24th 2018.

Same with last year, we collected fluorescent bulbs and small batteries which have not treated in right way at local places from employees and transferred them for hazardous waste collector for treatment.

In this year, to raise up awareness of employee, they must give the right answer when bring the bulbs to exchange schooling stationeries. Everyone who bring bulbs or batteries to us will be received a cotton bag as a memories for this campaign. They can use cotton bag replace for plastic bag in normal life.



Because of good purpose of this activity, we will continue to do it in the following years.



CHAPTER 4: ENVIRONMENTAL ACTIVITIES

EARTH HOUR 2019

TIPA always expects to connect its environmental activities to local community since promoting environmental activities in local community is a part of our responsibility. Therefore, we proactively look for and participate in the activities hosted by local authorities or local residences.

At TIPA every year, there are always Energy saving activities not only during the month of Earth Hour response, but also daily production activities. During this Special Energy Saving Month we offer activities such as:

- Thorough turn off unnecessary lights and power during break time in the factory.
- Turn on the air-con at **8AM** at all offices
- Light off from **7:40 - 8:40AM** at MFG.office and Admin office on Saturday working day .

BLOOD DONATION



“Blood is thicker than water” is a good tradition of Vietnamese people. In that spirit, year by year TIPA's employees are enthusiastically responding to blood donation movement coordinated between Cho Ray Hospital and Amata. Donating blood is not only good for your health but also good for those who are sick and need blood transfusion. Here are 5 amazing benefits of blood donation:

- 1) the joy of saving human lives;
- 2) free health check-up;
- 3) reduces risk of heart disease;
- 4) burns calories;
- 5) reduces the risk of cancer

On May 8th, 2018, 30 TIPA members were present at Amata convention center and conducted blood donation. We are glad to realize that we got more donors as times goes by. The blood which was donated shall be used to save people when necessary. Through this meaningful activity, employees could understand the value of blood donation and keeping it in the future. Hopefully, there will be more people realize the benefits of blood donation and do it voluntarily to help more people anytime when they have chance.



In FY2019, TIPA continues to reduce power consumption, the emission of CO₂, total waste and chemical waste by focusing more on the product quality improvement. As mentioned in the first part of this report, our product is the environment-friendly motors which can create same mechanical energy by less electric energy. And we believe the company and/or factory which manufactures such feature of the product must be more environment-friendly than others. Therefore, we would like to put priority on our tenacious quality activity by all employees in FY2019. We believe that this will bring us to better product quality which satisfies and increases customers, expands our business and improves our environmental performance.

As mentioned, TIPA got the certification of ISO14001 and 9001: 2015 and integrated 3 management systems including OHSAS 18001 into one in Feb, 2016. In FY2018, we try to operate this upgraded and integrated systems in accordance with the thought and spirit of 2015 version. We believe that complying fully with the 2015 version will enhance our environment, quality and safety activities surely.

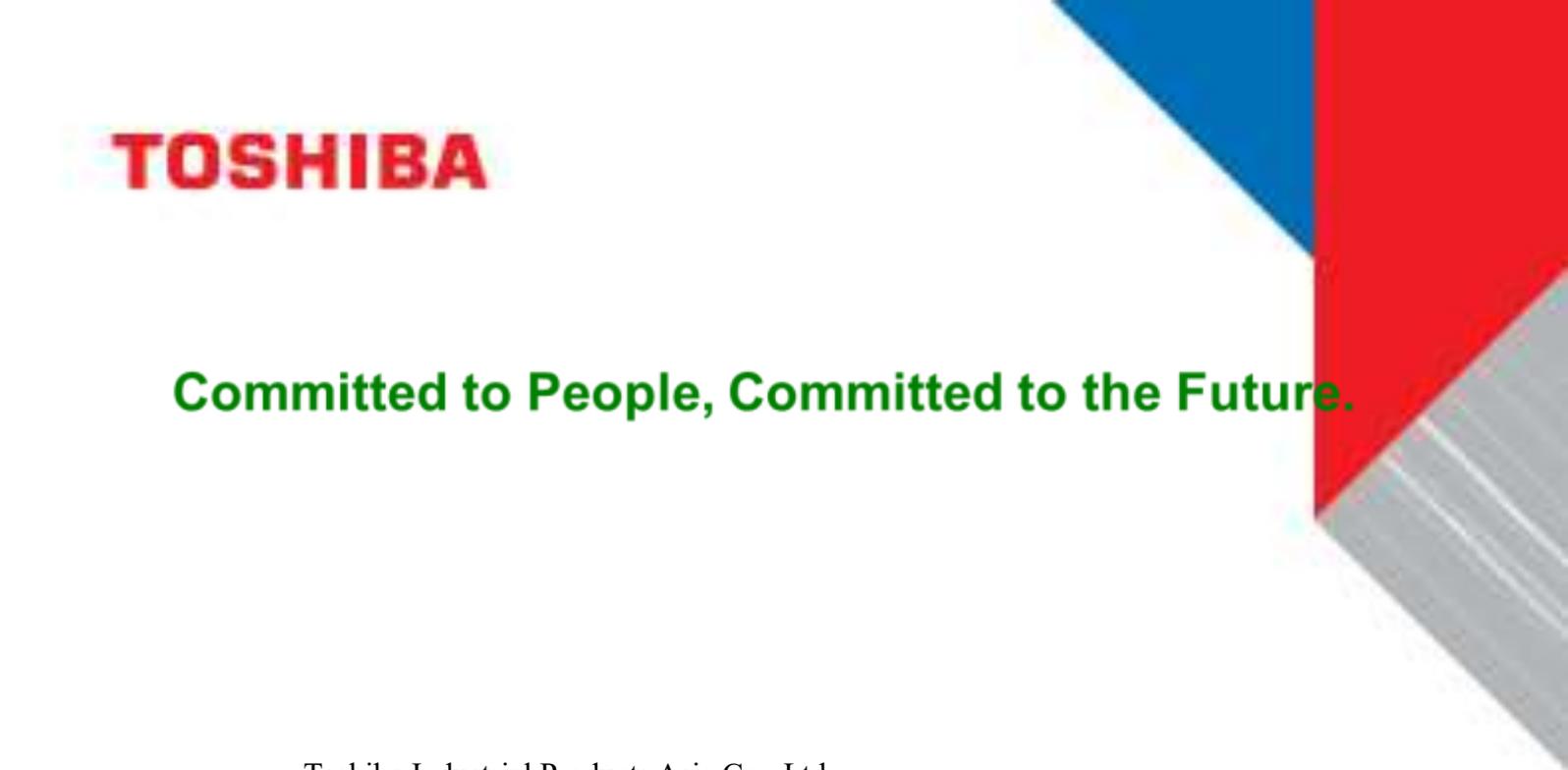
In FY2019 we will convert OHSAS 18001:2007 to ISO 45000: 2018 to match the continuous change of the world economy.

In FY2018, TIPA started distributing our original eco bag as the company's novelty to our guests and visitors. Its design came from the painting contest for employees' kids. This is also our small environmental action to promote environment friendly life for our and the succeeding generation. We keep on giving eco bags as our message in FY2019.

Finally, in FY2019, we will continue and expand our environmental activity with families, schools, companies and organizations around us. We would love to contribute to our society by the environmental activity more as well as by our environment-friendly motors and observe our environment more proactively together with more associates. We regard this is our mission as a good corporate citizen who has enjoyed the rich and good business environment in Vietnam and grown together with the society of Vietnam.



TIPA Eco bag



TOSHIBA

Committed to People, Committed to the Future.

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For further information on Toshiba Group Environmental Management and Toshiba's products, activities and events in Vietnam, please enter the following links:

<http://www.toshiba.co.jp/worldwide/index.html> or;

<http://www.facebook.com/Toshiba.com.vn>

<http://www.facebook.com/tipa.sem>