



Amazing

»» Part 1

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TAIWAN

Shining the Spotlight on Taiwan's SDGs! **Amazing TAIWAN**

Amazing TAIWAN

Shining the Spotlight on Taiwan's SDGs!

 **TAIWAN EXCELLENCE**
OFFICIAL MOOK





Government and People Joining Forces to Realize a Sustainable Future

The theme of this year's Amazing Taiwan is "SDGs"—the Sustainable Development Goals adopted at the 2015 United Nations Summit. As many readers may know, Taiwan is not a member of the United Nations. The nation has nevertheless been proactive in promoting the SDGs, adopting the motto "Taiwan can help, and Taiwan is helping!" Companies have set their goals in line with the targets of the SDGs, and Taiwan has continually demonstrated to the international community that it is ready to contribute. In recognition of these efforts, In March 2021, the Taiwanese government was recognized with the Catalyst 2030 Award, an international prize that recognizes governments, private organizations, companies, and individuals that are working toward the realization of the SDGs.

One of Taiwan's greatest strengths lies in collaboration between the government and the private sector. Whenever there a problem or issue arises, each and every citizen rises to the challenge instead of relying on the government alone. The government, for its part, makes every effort to support them. That which the government cannot accomplish, everyone—regardless of age, gender, and so forth—cooperates to make it reality. This is the Taiwanese approach to SDGs and social innovation. This volume will unpack and explore the various diverse initiatives and efforts of the Taiwanese government and the private sector, and put the focus on their visions for sustainable world.

Taiwan Excellence,

Everyday Excellence

"Taiwan Excellence" believes that innovation makes a difference in everyone's life.

Excellence means creative designs that we use every day - on the street , at work, at home.

It's the things we touch. It's the things that touch us.

Excellence means the technology that makes us healthy, keeps us moving, and gives our children a green tomorrow.

Excellence empowers people to dream amazing dreams, and live fuller lives.

It's the best made in Taiwan. It's the choice of innovation.

For everyone. Everywhere.

Every moment . Everyday.



What's the Taiwan Excellence Award?

An introduction with comics!



Tell me more!

All About the World-Famous Taiwan Excellence Award

Each year, Taiwan's Ministry of Economic Affairs conducts a strict judging process to select the winners of the Taiwan Excellence Award. The award originated in 1993 with the goal of promoting Taiwanese industry domestic and abroad. Only the finest products as selected by professionals receive the award, with the Gold and Silver awards reserved for those with the most innovative value. Award winners can use the Taiwan Excellence symbol with pride in marketing and promoting their product overseas.

The six arches of the Taiwan Excellence symbol represent the pursuit of harmony and cooperation in Taiwanese culture. It is also proof of products that have been recognized on

the national level. These days, it is recognized in over 100 countries around the world as a standard of excellence and quality.

Events promoting the Taiwan Excellence Award are held regularly around the world, from the U.S. to Japan, Indonesia, Vietnam, and beyond. Attendees can get hands-on with the products while receiving in-depth explanations from experts, allowing them to appreciate all the products have to offer. These aren't just passive exhibitions—they also include road races and eSports tournaments, all serving to promote the most innovative creations of Taiwanese industry across the globe.

The Taiwan Excellence Award is bestowed upon only Taiwanese products of surpassing quality, as recognized by the Ministry of Economic Affairs. This prestigious prize has been awarded since 1993 with the goal of promoting Taiwanese products both at home and abroad. Needless to say, every one of the award-winning items is highly functional, distinctive, and revolutionary! Don't miss your chance to get hands-on with them at events or at the Taiwan Excellence Pavilion! (P. 68)

Operating Authorities

Organized by the Bureau of Foreign Trade (BOFT), MOEA

The Bureau of Foreign Trade (BOFT) under the Ministry of Economic Affairs (MOEA), R.O.C. is responsible for implementing policies and regulations governing foreign trade and economic cooperation. Established in January 1969, the BOFT's role and position have been adjusted regularly to meet the needs of the ever-changing international economic and trade environments. The BOFT has been guiding and working with the Taiwan External Trade Development Council (TAITRA) in numerous promotional trade projects and activities both inter-nationally and domestically. Having worked closely with TAITRA for many decades, the BOFT continues to commission TAITRA for various critical government projects relating to business, trade and investment, while promoting Taiwan internationally.

Organized by the Taiwan External Trade Development Council (TAITRA)

Founded in 1970 to help promote foreign trade, the Taiwan External Trade Development Council (TAITRA) is the foremost non-profit, semi-governmental trade promotion organization in Taiwan. Jointly sponsored by the government, industry associations, and several commercial organizations, TAITRA assists Taiwanese businesses and manufacturers with reinforcing their international competitiveness and coping with the challenges they face in foreign markets. TAITRA boasts a well-coordinated trade promotion and information network of over 1,200 international marketing specialists stationed throughout its Taipei headquarters and 60 overseas offices worldwide. Together with its sister organizations, the Taiwan Trade Center (TTC) and the Taipei World Trade Center (TWTC), TAITRA has created a wealth of trade opportunities through effective promotion strategies.



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Part 1 Taiwan's Own SDGs:

In response to the Sustainable Development Goals (SDGs) set by the United Nations, Taiwan has been promoting its own initiatives. Audrey Tang, Taiwan's Minister of Digital Affairs, has played a leading role in the fight against the COVID-19 pandemic. Dr. Eugene Chien is raising awareness of the SDGs through wide-ranging educational efforts and competition. And Ms. Chiao-Ju Chuang has tackled women's issues as a lawyer for many years. We asked these three prominent sustainability champions to talk about Taiwan's vision for the SDGs from their unique perspectives.



Changing the Future



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〔What are the SDGs?〕

The Sustainable Development Goals (SDGs), unanimously adopted by the United Nations Summit in 2015, consist of 17 specific goals and 169 targets to be achieved by 2030. Taiwan's success in achieving SDG 5 ("Achieve gender equality") is particularly noteworthy. According to a report compiled by Taiwan's Executive Yuan (Cabinet) in 2021, the nation ranks first in Asia and sixth in the world in terms of gender equality. Furthermore, many Taiwanese companies are now placing great importance on the SDGs, and are stepping up their efforts in environmental protection, including energy measures and climate change initiatives, and much more.



Audrey Tang Talks About Taiwan's *SDGs*

Audrey Tang is making waves at home and abroad for her revolutionary digital policies, including the introduction of the “Mask Distribution System” app. As Minister of Digital Affairs, she promotes “social innovation” to achieve the SDGs while utilizing IT to the fullest. How will Taiwan tackle the SDGs and contribute to the international community going forward? Audrey was happy to share this vision.

People
change society

—You have advocated for “social innovation” in order to realize SDGs. How do you define this?

Social innovation means that we should help each other to solve problems that affect everyone. Social innovation is the idea of working together to address structural issues facing society as a whole, of adopting new approaches and new value. Many people think of “science and technology” or “natural science” when they hear about new value. But social initiatives are science, too. When it comes to innovation in people’s daily lives, social development is as important as industrial development—the two are like the left and right wings of an airplane when it takes off.

—What, specifically, does this entail?

For example, take the COVID-19 pandemic, where “proper mask-wearing and hand-washing practices” are effective. A single rainbow-patterned mask is a social innovation in public health (SDG 3) and democratic governance (SDG 16). Why? As an accessory to be worn in Pride parades and events celebrating diversity, this mask could be worn all day long, even on hot days, if you are motivated to be proud of it. I wanted a rainbow mask, so I went and bought one. You can sew your own mask cover from five or six different colors of fabric and put a regular mask inside. The key is to be able to think, “By wearing this, I can convey the social value of the rainbow (diversity) to the people around me.”

—In other words, to not force these developments, but create a trigger for self-motivated change.

It is not only our responsibilities and obligations that drive us to do things, but also the new idea of encouraging each other to voluntarily wear masks and wash our hands often for each other’s sake that forms the basis of social innovation.

In fact, all 17 SDGs can be accomplished in this way. For

example, emergencies such as climate change, destruction of marine and terrestrial ecosystems, implementing open government, and securing international partnerships require many people to act together for the common good—not just one sector or one country.

So how do we get more people to see the benefits of reducing and recycling plastic in marine ecosystems? Let’s start with profitability, and have fashion designers design beautiful and functional clothes from recycled plastic bottle fibers. Then, if every time you recycle, you make more greater profits, and also feel like you can really improve the situation, that’s motivation. This is what we call the circular economy.

—In 2020, Taiwan’s new “Corporate Governance 3.0 – Sustainable Development Roadmap” was announced. What does this entail?

CSR (Corporate Social Responsibility) is an important part of corporate governance. A company cannot succeed in business based on environmental or social destruction—but until now, corporate management has been based on “profit” first, followed by “purpose” that does not burden the environment. This bill is rooted in the opposite approach, emphasizing the concept of having a sustainable mission to solve environmental and social problems first, with profit to follow. For example, when companies above a certain level of capital make explanations and reports on their welfare to the public, they are required to visualize both positive and negative effects according to international standards. In the past, corporations took responsibility only after the damage was done. Now, however, companies can no longer remain on the sidelines when it comes to solving social and environmental problems. This is another example of a social innovation approach.



At the Social Innovation Lab, you can make an appointment to meet Audrey Tang in person. This program is part of the open government policy to achieve the SDGs.

Minister of Digital Affairs

Audrey Tang

Fascinated by computers since childhood, she dropped out of middle school at the age of 15 and founded numerous tech companies. In 2014, became a digital consultant for Apple, Inc. in the U.S. In 2016, she became the youngest person in history at the age of 35 to join Taiwan’s Executive Yuan, and was appointed to be in charge of digital affairs.

Social innovation holds

the key to sustainable change

—Tell us more about Taiwan’s international collaborative efforts as related to SDGs.

There are two aspects to this. One we refer to as “UN Global Goals - Taiwan Can Help,” meaning that Taiwan can help the United Nations achieve its global goals. For example, Taiwan’s excellent experience in public health and health insurance systems shows that it can help bring about “good health and well-being” (SDG 3).

Our platform provides access to solutions to international problems developed by Taiwanese organizations to anyone who can understand English or Chinese. For example, we can share with people in Africa and Ethiopia knowledge about an economical AI-based tuberculosis test in an aboriginal village in a remote area of eastern Taiwan. As soon as we have a solution, we will index it against the SDGs and share it with the world. There is also a ward invented by a doctor during an infectious disease pandemic, which is much different from the oppressive isolation wards of the past. It is easy to assemble, can be folded for storage, and can be disassembled to be used as a general building material. They are also inexpensive and can be dismantled and shipped around the world. Taiwan’s medical masks are also needed by many countries and contribute to the world.

We are also focusing on “impact investment” to solve environmental and social problems through investment. It is a global trend to raise funds based on a calculation method that proves that an investment of one dollar has caused a social impact of one dollar or more. We are constantly learning and participating in forums to keep up with these latest trends. Some of them are sponsored by the United Nations, but since Taiwan is not a member of the UN, we try to be creative and send robots to participate. *[laughs]*

The term “Made in Taiwan” used to refer to specific products, but now it also includes the very concept and processes of social innovation.

Audrey Tang gives the Vulcan salute from the American sci-fi series Star Trek, meaning “live long and prosper.”



Audrey Tang's Efforts Toward A New Form of Social Contribution

CHECK

Following the “mask app”: the “real-name SMS”!

To address the spread of the novel coronavirus in Taiwan, in May 2021, many places—including public transportation, supermarkets and convenience stores—required individuals to leave their names, phone numbers and other contact information. In response to this, Audrey Tang announced a system called the “Real-Name SMS”. It is a short-mail service that allows users to easily register their personal activity history, and was created with the cooperation of g0v, a decentralized civic tech community which was involved in the development of the mask application, and Chunghwa Telecom, a major telecommunications company. Registration of real names, which used to take about 30 seconds, has been reduced to about 5 seconds. Since it uses SMS, it can be used not only with smartphones but also with traditional cell phones.

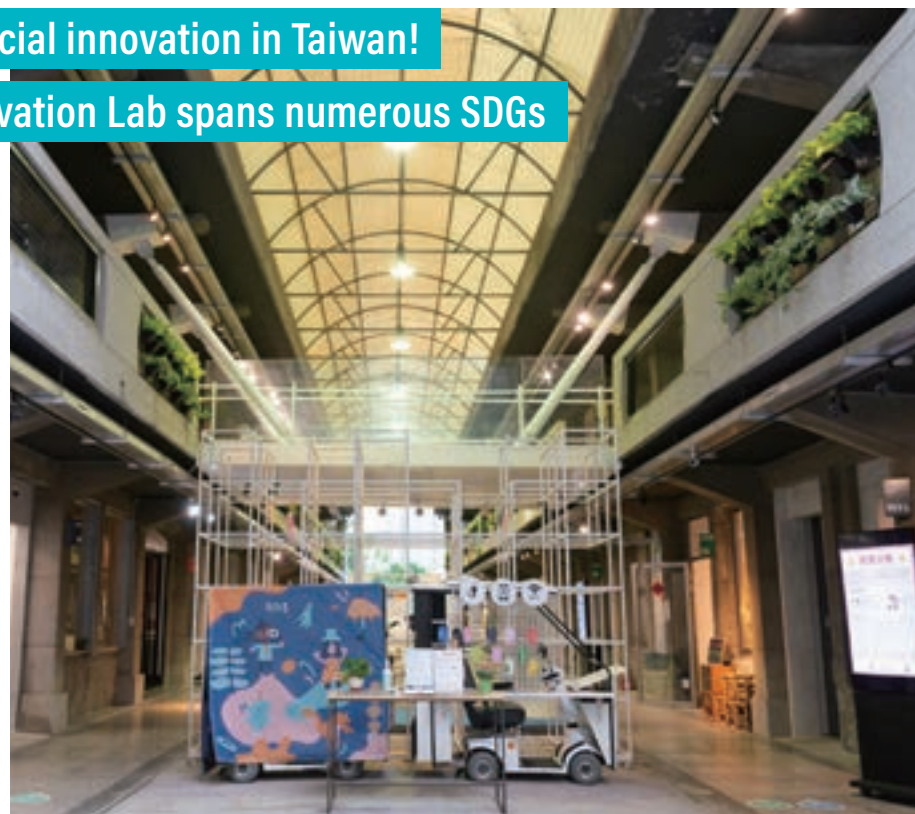
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2

At the forefront of social innovation in Taiwan!

The Social Innovation Lab spans numerous SDGs

In response to the Social Innovation Action Bill enacted in 2018, the Social Innovation Lab was launched under the leadership of Minister Audrey Tang. Here, government departments, local governments, and social enterprises work together through social innovation to develop, research, promote, and oversee operating and business models. These address many of the SDGs across sectors, generations, and regions to help society as a whole create more sustainable value. For example, the water server at the entrance of the lab is compatible with an app that allows people to participate in and deepen their understanding of water resources (SDG 6), sustainable urban development (SDG 11), carbon dioxide emission reduction (SDG 13), and securing sustainable oceans (SDG 14).



Audrey Tang and her social innovation organization in Taiwan have been working under the policies of “radical transparency” and “open government”. Value is placed on building solidarity among generations, sectors, and cultures—in a completely different way that the traditional vertically divided government. Their radical approach is attracting attention from countries around the world.

Youth activities—sustainability is an investment

in the next generation

CHECK

3



According to Minister Tang, it is important to respect the younger generation and believe that they can better face the problems of the future. For example, if what you are trying at the time is not the “best” but merely a “better” measure, and someone says, “This is not good, there is a better way,” it is important in Taiwan to encourage participation by saying, “Then you try it.”

At the Public Policy Network Participation Platform, which was established to improve the efficiency of government governance and operations through citizen participation, about a quarter of the public policy suggestions come from students under the age of 18. Even if they do not have the right to vote, everyone can be involved in society, thinking and creating together.

CHECK

4

Taiwan's “Presidential Hackathon”

changes the world

Presidential Hackathon is a competition in which teams have a limited amount of time to pool their wisdom and present their best ideas for the challenges of that society. The competition has been held annually since 2018, and many ideas related to the SDGs are submitted, and the winning ideas are backed by the government for implementation. The winning trophy has a projector function, which projects a picture from the President to the awardee. The competition is meant to be politically viable, and it encourages the active participation of many public sectors. For example, the Thaubing Footprint project of GCAA (Green Citizens' Action Alliance) aims to promote the improvement of environmental governance through the openness and transparency of information and to build a tripartite dialogue platform between enterprises, governments, and the private sectors. The “Farmland Factory” project proposed by GCAA in the Presidential Hackathon is based on the existing environmental data of Thaubing Footprint, coupled with the information on farmland factories obtained from the Presidential Hackathon, trying to find hidden polluting factories among the farmlands from the perspective of information analysis, prompting the government to actively deal with it. In addition, the idea of telemedicine in Lanyu, on Orchid Island the southeast coast of Taiwan, has led to the relaxation of online medical regulations and is now supporting many local medical services.



Addressing and Applying SDGs in the Private Sector

TAISE is a foundation that works with the Taiwanese government in leading the way towards achieving SDGs. TAISE promotes the UN's SDGs to the Taiwanese society and the rest of the world with focus on climate change, sustainable energy, corporate social responsibility, and university sustainability. The chairman of TAISE, Dr. Eugene Chien, spoke with us about the efforts of TAISE in promoting corporate sustainability.

Learn while having fun



TAISE Chairman

Eugene Chien

Dr. Chien was the Minister of the Environmental Protection Administration, Minister of Transportation and Communications, Taiwan Representative to the U.K., and Minister of Foreign Affairs. At present, he is the Chairman of TAISE where he led a series of awards, forums, and workshops that leads SDGs initiatives in Taiwan. Dr. Chien is appointed Ambassador-at-large for climate change and sustainability under President Tsai's government.



Building the "Taiwan Model" through motivation and education to pave the way for a borderless and ideal future.

—Tell us about your work with TAISE, the foundation you serve as chairman.

TAISE supports the Taiwanese government in expanding the awareness and commitments toward SDGs in both the public and the private sectors. As a private organization, TAISE established numerous initiatives such as awards, forums, and trainings, to motivate companies, government agencies, and education institutes in committing towards achievement of SDGs. These initiatives create a spirit of positivity to businesses in working towards a sustainable future.

—Are your efforts unique to Taiwan?

At present, over 300 companies involved in the awards and other initiatives, some of the notable companies include Acer, ASUS, Foxconn, Taiwan Cement, and TSMC. The combined revenue of all participating companies accounts for 145% of Taiwan's GDP. There could be similar initiatives in other countries, but I believe few organizations are implementing them on a scale as large as TAISE.

—How do you motivate companies to participate?

Addressing the social and environmental issues cannot be achieved overnight, it requires long-term commitments, studies, research, discussions, knowledge building, and significant budgets. In return, companies want to be recognized by the society. The awards are positivity-centered, which motivates companies to engage into sustainable developments. The Taiwanese society tends to be critical about companies when things go wrong, and therefore to be recognized for their efforts is a form of courage to these companies. In the award ceremonies we held every year, senior government officials including President Tsai Ing-Wen were invited to present the awards. It is said that children grow through praises; I believe this is the same is true for adults and businesses.

—Tell us more specifically about the competitions you hold.

The awards recognizes outstanding performance in sustainability, businesses are being praised for key person, transparent disclosures, and sustainability practices. The judges include trained volunteers and there are about 668 of them at present.

The works of the volunteers are being reviewed by the award panel. The global awards involved judging panels from world-wide, this further promotes sustainability efforts to international level. This judging panels play important roles in our initiatives and serving as "SDG ambassadors" in their respective workplaces and fields. We aim to have more than 1,000 judges involve in the process in two years. The winners of the awards are being presented in a forum, where we have a series of other workshops on sustainability.

Through the awards, businesses become passionate about implementing SDGs into businesses.

—In other words, your competitions foster a persistent commitment to SDGs. What about your efforts outside the corporate sector?

TAISE partners with 32 universities, including top-tier Taiwanese universities such as National Taiwan University and National Chengchi University. We provide teaching materials, held awards for academic papers, and support curriculum implementations. Further to universities, TAISE held events to build awareness about climate change to primary and secondary school students. One of the most popular events is the painting competition, which features a different theme each year, such as "Oceans" for SDG 14 and "Water Resources" for SDG 6. In this year alone, we received a total of 19,000 entries from Taiwan and abroad.

—What is the specific state of Taiwanese corporations with regard to SDGs, and what goals do you have going forward?

In 2020, 26 Taiwanese companies were selected as components of the Dow Jones Sustainability Indexes (DJSI). Taiwan ranks fifth in the number of companies selected and highest in the DJSI Emerging Markets Index, which is quite an achievement considering the size of Taiwan's economy.

Furthermore, in 2020, two companies, Panasonic Taiwan (Taiwan Matsushita Electric Industrial Co., Ltd.) and Kao Taiwan, received the Taiwan Sustainable Model Overseas Company Award. Also, although the government has not yet made an official announcement, Taiwan is expected to follow Japan in striving toward a goal of carbon neutrality by 2050.

We intend to continue work together with many companies and organizations, not only in Taiwan but also across borders, and we sincerely welcome the participation of Japanese companies and schools in TAISE's competitions.



Education through Creativity: The Taiwanese Way of Promoting Achievement of SDGs

CHECK

1

Develop the legal framework for recycling of PET bottles

Taiwan experienced rapid economic growth in the 1980s—known as one of the Four Asian Tigers. However, the environmental issues were lagged behind. This led to a focus on consumer/producer responsibility. As a result, the concept of extended producer's responsibility (EPR) for PET bottles was codified in law for the first time in the world in 1989.

An innovative trash bin nicknamed the “extra-terrestrial baby” were developed by Dr. Eugene Chien, the Minister of Environmental Protection at the time. Children were educated in school on how to properly dispose garbage in the bins where the sorting of recycle materials are being color-coded into four categories: metal, glass, plastic, and paper.

Furthermore, parents can also learn from their children in this process. This “educational cycle” model is still applicable to TAISE.



Clothing made from recycled
coffee grounds and PET bottles

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3

An Earth-friendly cement plant shines as a tourist attraction

Taiwan Cement's Hualien plant in eastern Taiwan has become a focus for its energy-saving and eco-friendly construction. Taiwan Cement is aiming to become carbon neutral by 2050 and has been awarded the EU eco-label. The company places great importance on environmental conservation, which can be evident from using a seaweed-based CO2 absorption system to preserve water clarity at the Hualien Port where the cements are being transported. The factory has become a tourist attraction in Hualien. A market event is held named “DAKA” (after the Taiwanese term for “checking in” via social media). These initiatives also created more job opportunities for the indigenous people residing in eastern Taiwan, lessening the disparity between the rural and urban.



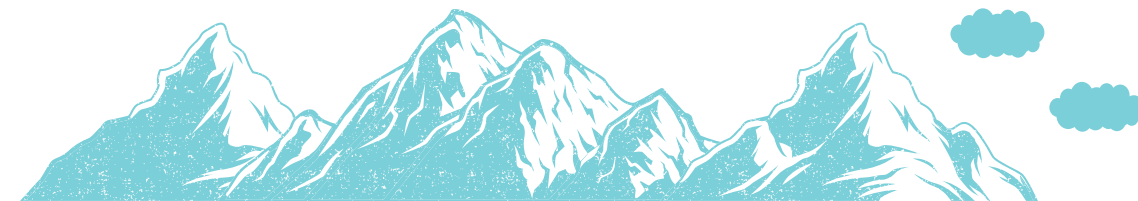
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4

Top-class offshore wind power generation in Asia



The Tsai administration is committed to sustainable energy policies, such as the aim to phase out nuclear power by 2025 and increasing the total renewable energy capacity to 27 gigawatts. In recent years, the government has been focusing on offshore wind power generation. Taking advantage of its landscape as an island nation, the country ranks second in Asia after China in offshore wind generation capacity and is expected to generate 5.7 gigawatts of electricity in 2025. Taiwan is also promoting domestic production and has strong government support for the purchase of electricity. On the other hand, the impact on ecology and the environment as well as the opposition from fishermen are issues that still needs be addressed. Countries with high carbon emissions including China, Japan, and Korea announced their carbon neutral targets, which will lead Taiwan in becoming an offshore wind generation hub.



Lessons For **a Bright Future** from the Social Progress of Taiwanese Women



For 39 years since its founding in 1982, the feminist organization The Awakening Foundation has advocated for numerous gender-based policy reforms in Taiwan. They train volunteers to provide legal counseling, and handle more than two-thousand phone consultations a year on matters such as marital and familial law. Taiwan is considered a leader in gender equality within Asia, but how did this present reality come about? We asked lawyer and Awakening Foundation chairman Chiao-Ju Chuang.

Democratization and key societal events

spur the advancement of gender equality in Taiwan.

—Taiwan leads Asia in gender equality. If you look at the Gender Inequality Index, Japan ranks 120th, almost 100 positions lower than Taiwan. What is it in Taiwan's history that led to this current state of affairs?

The biggest movements in gender equality in Taiwan have actually come in the last thirty years. Taiwan was under martial law until 1987, and society as a whole was very patriarchal with a strong emphasis on father's rights. Married women were at a disadvantage, and even if dissatisfied with their position, under martial law it was impossible to gather or protest. So women would get together in their homes and discuss all manner of women's rights issues, which led to the creation of the first feminist magazine in Taiwan, "Awakening Magazine." That magazine became the basis for the Awakening Foundation that I now direct, and paved the way for the ratification of the Gender Equality in Employment act of 2002. Today we continue to advocate for proposals and governmental reforms, while also monitoring corporations for compliance with the gender equality act and checking for emerging issues. That in turn will lead to more policies being implemented, so I think it's fair to say that Taiwan's current success can be attributed to cooperation between the government and the private sector.

—Taiwan's efforts towards gender equality in the private sector have been extraordinarily progressive. For example the Taiwan Women's Art Association was founded back in the year 2000. There's been a real push to investigate and promote women's activities in art, government, criticism and education. Here in Japan that movement is only getting started now in 2021. It seems like the major difference is that in Taiwan the gender equality movement has gone hand in hand with democratization.

I think you're right. This all occurred during a simultaneous rise of various democratic and human rights movements, including labor and indigenous people's rights. A particularly symbolic event in the women's movement was the Dr. Sun Yat-sen Memorial Hall* incident in 1987. Female employees at the hall had to wear form-fitting cheongsam dresses, and because of the traditional view that a woman should marry upon reaching a certain age, they were forbidden from marrying or becoming pregnant, and expected to quit when they turned 30. In 1987 when martial law was lifted, 57 female staff members who had been terminated organized in protest, and that eventually led to the Gender Equality in Employment Act. Similarly in 1993 we had the Ru-Wen Deng incident, where there were large scale demonstrations in support of a woman, Ru-Wen Deng, who had murdered her husband after many years of domestic violence. This led to the Domestic Violence Prevention Act. It was also learned that her marriage had only begun because she was raped. This led to more awareness of the concept of bodily and sexual autonomy, the idea that a woman has the right to decide what to do with her body. All of these things led to the current awareness you see in Taiwan regarding gender equality.

*A memorial to the Republic of China's National Father, Dr. Sun Yat-sen.

—Taiwan is making great gains in gender equality, but also seeing a steep decline in birth rate. What do you think needs to be done to address that?

All of the efforts to address it so far have focused on economic support such as monetary assistance, but the people need more fundamental support. In 1991, only 42% of women with children under 3 were in the workforce, but in the past 30 years that number has risen to 73%. The demand for childcare facilities for children in that age group has increased as well. I think the important thing is that the childcare leave system needs to be reformed. The compensation rate for childcare leave should

be raised to 90%, and mothers and fathers should be able to request overlapping leaves of absence. You should be able to use childcare leave when your child is sick, and take an extended leave without worrying if your job will still be there when you come back. We need more robust public childcare facilities as well. The government has recently announced that they'll raise the childcare leave compensation rate to 80%, and public funds will cover up to 14 doctor's visits during pregnancy, with an allowance of 7 days paid leave for those visits. Additionally they're increasing financial support for infertility treatments. It's incremental, but our foundation's feedback is gradually being implemented by the government, and I think this will lead to a society where people have peace of mind when it comes to pregnancy and childcare.

—The current president of Taiwan, Tsai Ing-Wen, was recently named by Forbes Magazine as one of the 100 most powerful women in the world. Meanwhile, Japan has yet to have a female head of state. It feels as though having a female president has been very empowering for the women of Taiwan.

The executive branch has its own gender equality committee, and experts from the UN have been actively promoting cooperation between the government and private sector. The same committee is sponsoring a competition for new initiatives for gender equality in local governments. One thing to come out of that competition is a calendar that challenges stereotypes and traditions, such as the idea that women should not return home until the second day of New Year's. It's also catching on, in large and small companies, that things like providing menstrual and childcare leave, counseling, and mental health care will attract better personnel and also allow companies to retain them.

A bright future for women!



Chair of The Awakening Foundation
Partner at Themis Attorneys-at-Law

Chiao-Ju Chuang

Chair of The Awakening Foundation and Partner at Themis Attorneys-at-law. Member of numerous committees including the Gender Equality in Employment Committee in Taipei. Active as a both a lawyer and committee member for gender and women's right issues including domestic violence, labor disputes, gender equality, and sexual harassment.



What Ideas and Policies Will Support **Women Better?**

CHECK

1

Using a Quota System to Get

Women Involved in Society

A quota system means ensuring that a certain number of positions or candidates are reserved for specific genders. If half of a country is made up of women, then women should be involved in determining that country's policies. This has a long history in Taiwan, with a legislator quota system included in the 1946 Constitution of the Republic of China. Though no specific ratio was indicated, the language stating that women should be included in the legislature was ground-breaking. Owing to this, a gender quota system was formalized in 1999, and the constitution was officially amended in 2005. Currently the legislature is more than 40% female, which ranks number one in Asia. In Japan, the same figure sits at less than 10%, which has a great effect on the Gender Gap Index.



CHECK

2

Compulsory Education Regarding

Sexual Harassment and Stereotypes

In 1988 it was determined that Taiwanese elementary and middle school textbooks contained stereotype reinforcing content, so the Awakening Foundation published their pioneering gender equality education guidebook. They continued their efforts, and after the Ye Yonghzi incident in which a middle school boy was killed, the Gender Equality Education Act was passed in 2004. Identifying gender stereotyping and harassment, and modes of thought to combat discrimination based on sex and sexual preference became required parts of public education. The effects of this education can be seen in the level of gender equality in Taiwan, and in the recent legalization of same-sex marriage.



Participation Rate for Paternity Leave Triple that of Japan, Revolutionizing How Women Work

CHECK

3

In 2020, the percentage of parents in Taiwan using childcare leave to care for a child three years or younger was 82% for women and 18% for men. Obviously, the men trail far behind the women, but this percentage more than triple the participation rate of Japanese men which is only 6%. Starting July 1st, 2021 parents will be able to split their six months of childcare leave into two separate leaves any time until the child reaches 3 years of age, and they will still receive 80% of their wages during those six months. Menstrual leave can be taken without any medical certification, and at half-pay. Corporations are increasingly seeking female executives, with many aiming to have at least a third of their board be women. There are also robust mother and child care centers that aim to help mothers rest and recover after birth and return to normal life more quickly.



CHECK

4

Landmarks of Taiwanese Feminism

Inspire Modern Women

Taiwanese women were once forced to bind their feet, and had low rates of literacy. It took the efforts of many women to reach the present situation where Taiwan leads Asia in gender equality. To recognize the places, organizations, and events culturally and historically important to this movement, and to make the stories behind them known, they have been officially recognized as Taiwanese Women's Cultural Landmarks. There are more than 20 landmarks in total at present, including the building where the Awakening Foundation began, the first Chinese-language feminist bookshop, Pinuyumayan Women's Day, the Tamsui Girls School where women were first educated in Taiwan, and the Dr. Sun Yat-sen Memorial Hall. These landmarks embolden the women of today.



Generation Z Takes On SDGs

VIVI LIN's Vision for Taiwan's Future

In 2020, VIVI LIN, a Taiwanese Gen Z activist who continues to influence the world through social networking, released a YouTube video message in response to comments by Dr. Tedros, the Director-General of the World Health Organization (WHO). The video was viewed 1.7 million times in a week and received more than 100,000 likes. After that, she shared content about the "Current Situation of Period Poverty" on Facebook, which drew 240,000 viewers. We asked her about herself and SDGs, and the way in which she always shares her message to the world in her own words.

My Identity: "I Am Who I Am."

I made my video response to WHO Director-General Dr. Tedros because I didn't want his comments to mislead my friends from about 120 countries at the University of Edinburgh in Scotland, where I was studying abroad at the time. Unexpectedly, a lot of people came to know about me because of that video, but some of my classmates still don't know that was me. How someone comes to know me is different for each person, and it's not something I can control. So I don't care how they label me. Because "I Am Who I Am.", after all. VIVI is the label and identity that defines me.

Confronting and Speaking Out Against "Period Poverty"

I founded the NGO "Little Red Hood" with the goal of improving women's health standards. The activities of this organization all fall under the SDGs: 1. Poverty, 3. Health, 4. Education, and 5. Gender. First we have education. Women face many problems because of their gender, and we conduct many activities to raise awareness of these issues. For example, we organize educational curriculum for elementary, middle, and high school students, and give lectures on female physiology and gender in local communities for people of all ages. We also conduct research on the current situations surrounding menstruation and provide material support services. The problem is so serious that 800 million women in the world are suffering from "Period Poverty," an inability to purchase sanitary napkins—and being forced to use socks and newspapers as substitutes—as well as being unable to attend school during their periods, leading to educational disparity. These problems have grown even more urgent and severe due to the COVID-19 pandemic. Therefore, we are working to send sanitary napkins directly to those who need them, as well as to distribute them to local communities to reach women in need. We also educate local social workers about Period Poverty in order to promote understanding of the fact that many women face this situation.



Gender and Societal Issues Cannot be Solved by Medicine Alone

Ever since I can remember, I've wanted to be a doctor. I'm from Yilan in eastern Taiwan, where there were no general hospitals at the time, and I grew up watching the difficulty elderly people had commuting to hospitals far away. As an elementary school student, I was fascinated by Doctors Without Borders. I became interested in humanitarian aid, and decided to study epidemiology at the University of Edinburgh in Scotland, the alma mater of Dr. Mackay, who introduced Western medicine and public health to Taiwan. There, I realized that public health is a field not only about medicine, but one that is deeply connected to public policy, economics, and education. I realized that medicine is not just about what happens in the hospital, and knew that I wanted to solve the physical and psychological health problems that women face because of our social structure.



Founder and CEO, Little Red Hood
VIVI LIN

Born 1998 in Yilan, eastern Taiwan. She is the first Taiwanese student in UWC Maastricht, and after studying Infectious Diseases in the University of Edinburgh, she returned to Taiwan and founded Little Red Hood, an NGO that endeavors to tackle Period Poverty. She has drawn attention as one of the leading social activists among Taiwan's Generation Z.
URL <https://vivilin.me/>

Taiwan's "Generation Z"(*) Takes an Active Role in Crafting Policy

We are currently proposing "menstruation tax reform" to the government. Specifically, we are proposing that the 5% sales tax on menstrual products be either waived or used to subsidize the costs of addressing menstrual problems. We are also calling for a review of the way sanitary products are distributed, as well as the details of the menstrual leave system. Institutionalizing the issue is very important because it is a way for the government to send a social message that it will work to address gender inequality. The way we make recommendations is either directly to the ministries or through the "Social Innovation Platform" led by Audrey Tang. We have also partnered with corporations such as P&G in the Asia Pacific region, while keeping abreast of global trends participating in the UN forum on period poverty and joining international public health organizations.

*Generation Z: Refers to the generation born in the late 1990s to early 2000s.

SDGs: Asking the Question "What Sort of World Do We Want to Live in?"

The SDGs are a very important concept for our generation. Our efforts today will directly lead us to decide what kind of future we want to live in. If we consider what we need to do to achieve our ideal world, this will naturally fall in line with the SDG goals. Generation Z is a diverse group, but many of us seem to be questioning what they have been taught by their families. In the process of self-discovery, they are constantly forced to come to terms with their parents' conservative ways of thinking, and because of this, they have strong ideas about the future. At times, there can be a sense of frustration that Taiwanese education and society are not keeping pace with our personal ideals, but this frustration has also spurred various initiatives that are bringing about positive change and innovation in Taiwanese society.

Personally, I believe gender is just one of my attributes as a person. In the future, if we can freely decide our own identity—or not be required to talk about our identity—I believe the world will be a better place to live, regardless of one's gender.



MERIDA e-bikes: Transforming Lifestyles in the COVID Age!

As the COVID-19 pandemic persists, bicycles are attracting attention as an eco-friendly and easy way to avoid dense traffic. In Europe, where cycling has always been popular, national governments are promoting bicycles through measures such as subsidies for bicycle purchase and repair, dedicated cycling roads, and other measures. Merida's electric bicycles (e-bikes) make it easy to travel long distances and ride off-road. Why not turn the COVID crisis into an opportunity to lead an active and healthy lifestyle?



The eBIG.NINE 400 is a state-of-the-art model with an aluminum frame equipped with a battery manufactured by Shimano, a Japanese outdoor sports manufacturer. It's ideal for those who enjoy off-road riding as a hobby or for those who mainly ride in the city.



In response to the spread of COVID-19, Western countries are taking measures to encourage bicycling, such as expanding bike lanes and subsidizing the cost of bicycle purchase and repair. The Italian government has spent 120 million euros to subsidize the purchase of bicycles, while the French government has spent 22 million euros. The governments of Australia and the United Kingdom are also promoting the use of bicycles, and making efforts to improve their infrastructure by building bicycle lanes. The British government has also released an estimate showing that if people living in cities started to ride bicycles or walk every day, their health would improve and they could save up to 17 billion UK pounds in medical costs over the next two decades.

Demand for bicycles and e-bikes grew in Europe and the U.S. in 2020, and is expected to grow further going forward, driven by these and other measures taken by various countries. In particular, e-bikes are so popular these days that they now account for the majority of overall bicycle sales. The demand for bicycles is also strong in Taiwan, where the production of high-end bicycles and e-bikes is flourishing, and in light of the COVID-19 pandemic has seen further growth. According to Taiwan's "Customs Export Statistics," Taiwan exported more than 760,000 e-bikes in 2020 (an increase of 18% from 2019) with a total export value of about US\$1 billion, up 14.4% from 2019. The average unit price per bicycle was approximately US\$1,300.

The Netherlands, the largest importer of e-bikes from Taiwan, received more than 312,000 units in 2020, accounting for 41% of Taiwan's total e-bike exports. This was followed by the U.S. with 168,000 units, the United Kingdom with 36,000 units, and Germany with 51,000 units. The number of units exported to Japan in 2020 was 8,183, more than twice that of the previous year, indicating that the demand for e-bikes in Japan is also growing.

Merida, founded in 1972, is one of the Taiwan's foremost bicycle and e-bike manufacturers in Taiwan, accounting for about 30% of the country's total exports in terms of bicycle sales. The company sells about 1.5 million bicycles annually to more than 80 countries and regions, and has won more than 30 gold and silver awards at the Taiwan Excellence Awards. By turning the adversity of the COVID-19 pandemic into an opportunity, Taiwan's e-bikes are sure to make an even bigger name for themselves around the world going forward.

Taiwan's e-bike Exports from January-December 2019/20 and Export Value Comparison

	Export Volume					Export Value (US\$)				
	2020	Percentage (%)	2019	Percentage (%)	Export Volume +/-	2020	Percentage (%)	2019	Percentage (%)	Export Value +/-
Total	760,025	100%	644,300	100%	17.96%	986,902,460	100%	862,992,245	100%	14.36%
EU	502,277	66.1%	440,723	68.4%	13.97%	634,053,729	64.2%	560,816,437	65.0%	13.06%
NAFTA	186,865	24.6%	144,242	22.4%	29.55%	245,385,852	24.9%	196,540,708	22.8%	24.85%
Other	70,883	9.3%	59,335	9.2%	19.46%	107,462,879	10.9%	105,635,100	12.2%	1.73%
Japan	8,183	1.1%	3,529	0.5%	131.88%	10,850,516	1.1%	4,198,945	0.5%	158.41%
The Netherlands	312,209	41.1%	230,228	35.7%	35.61%	429,927,124	43.6%	318,819,842	36.9%	34.85%
United States	167,812	22.1%	131,825	20.5%	27.30%	216,149,231	21.9%	174,872,390	20.3%	23.60%
United Kingdom	35,633	4.7%	49,920	7.7%	-28.62%	45,340,662	4.6%	51,606,901	6%	-12.14%
Germany	51,007	6.7%	49,992	7.8%	2.03%	40,268,166	4.1%	57,444,544	6.7%	-29.90%
Spain	23,030	3.0%	23,992	3.7%	-4.01%	31,678,219	3.2%	37,679,176	4.4%	-15.93%
Canada	17,852	2.3%	10,151	1.6%	75.86%	26,849,595	2.7%	17,482,173	2%	53.58%
Australia	13,744	1.8%	10,682	1.7%	28.67%	25,395,259	2.6%	19,908,128	2.3%	27.56%
Italy	13,762	1.8%	23,355	3.6%	-41.07%	24,887,188	2.5%	35,596,869	4.1%	-30.09%
Switzerland	12,293	1.6%	13,425	2.1%	-8.43%	21,723,667	2.2%	26,088,353	3%	-16.73%
Sweden	21,721	2.9%	7,422	1.2%	192.66%	14,801,271	1.5%	4,504,083	0.5%	228.62%

Source: Statistics from Customs Administration, Ministry of Finance, prepared by the Taiwan Bicycle Association (TBA)

MERIDA's e-bikes: Making Fans Around the World

Merida is a leader in the bicycle industry not only in Taiwan, but across the globe. Their e-bike lineup consists of diverse types, for example: the eONE-SIXTY, with a low center of gravity and a in-tube-powered battery; the eBIG.NINE, which can be used in mountainous areas; and the ePASSPORT, with a reputation for easy handling. With these options, cyclists can choose the model that best fits their purpose and riding style.

*Making Off-Road Biking Fun
for Beginners and Experts Alike!*

eONE-SIXTY

The eONE-SIXTY is the flagship model of Merida's top-of-the-line electric-assist mountain bikes (E-MTBs). With its eye-catching appearance, an all-carbon fiber frame that's ultra-lightweight and sturdy, and high-end Shimano drive motor and in-tube battery, the eONE-SIXTY offers agile handling and excellent cornering grip. Downhill and off-road riding is also easier than ever with the electric assist function. It has also been highly praised for its design, winning the "Design and Innovation Award" in Germany and the "Taipei Cycle d&i Gold Award" in Taiwan.



The Thermo Gate is designed to maximize airflow and dissipate the heat generated by the motor—one of many details indicative of the incredible craftsmanship.



*Equally at Home Off-Road
or in the City!*

eBIG.NINE 400

The eBIG.NINE 400 is a sport series E-MTB that can be used for commuting, long distance touring, off-road riding, and more. It features a high-durability aluminum frame constructed using state-of-the-art technology, a Shimano drive unit, and an in-tube battery with a low-center-of-gravity design. The 29-inch large-diameter tires provide excellent running and rolling performance for smooth riding even on rough roads.



The eONE-SIXTY, equipped with parts especially suited for mountain biking, is one of the most decorated of Merida's many award-winning products. It offers a light, comfortable ride that will make you forget that it's an electric bike, and allows even beginners and those not confident about their stamina to climb hills with ease.

*Weekday or Weekend,
Travel by Bike to Avoid Crowds!*

ePASSPORT

The ePASSPORT features a built-in in-tube battery allows for step-through without sacrificing frame durability. The 650B wheels are perfect for riding on pavement, and the puncture-resistant tires are equipped with side reflectors for safety. It is also equipped with a Shimano STEPS E6180 drive unit, and is suitable for a wide range of purposes, from daily commuting to hill climbing and other holiday leisure activities.



The Merida R&D Center, located near Stuttgart, Germany, where talented engineers utilize the most advanced technologies and techniques to design revolutionary bikes.

MERIDA INDUSTRY CO., LTD.

美利達工業股份有限公司

Chairman : Michael Tseng

Established : 1972

Industry : Bicycle and electric bicycle manufacturing and sales

Employees : 1,600



Part 2 9 Companies Chang

ing the World for the Better

01



GIGA-BYTE TECHNOLOGY
CO., LTD.P.32

E INK HOLDINGS INC. P.36

02



In 2020, "Corporate Governance 3.0" was proposed by Taiwan's Financial Supervisory Commission to provide a roadmap for sustainable development, and many companies have started to use the SDGs as a common language to achieve their goals. Many of the companies recognized by the Taiwan Excellence Awards this year are also actively working toward the realization of the SDGs. This chapter features on nine of these companies, putting a spotlight on the "here and now" of Taiwan's SDG efforts through specific examples of award-winning products and their features, as well as interviews with company representatives.

07



MAKALOT INDUSTRIAL
CO., LTD. P.56

08



APEX MEDICAL CORP.
.....P.60

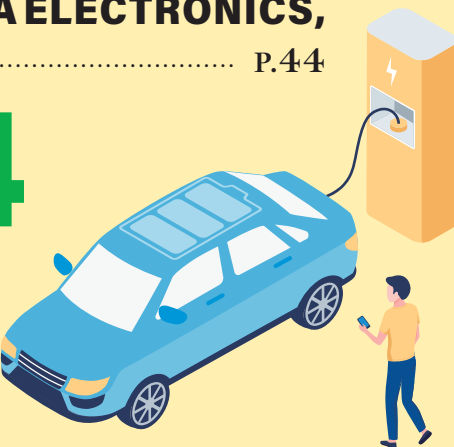
03




TAIWAN GLASS IND. CORP.
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DELTA ELECTRONICS,
INC. P.44

04



09



TECO ELECTRIC &
MACHINERY CO.,
LTD. P.64

05



MERITS HEALTH PRODUCTS
CO., LTD. P.48

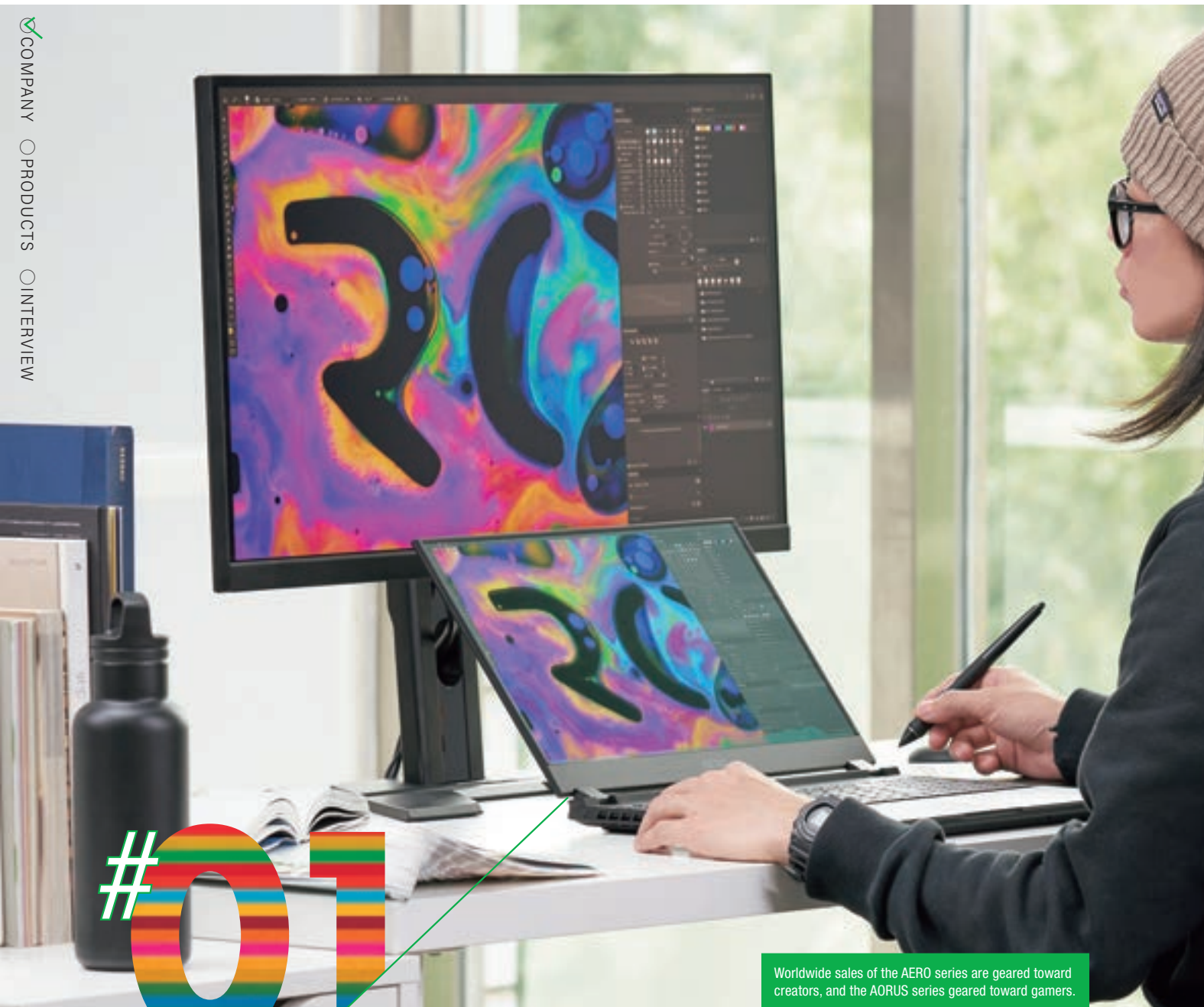
CHENG SHIN RUBBER
IND. CO., LTD. P.52

06



〔Key Terms to Know〕

- ODM: Original Design Manufacturing; design and production of products under another company's brand.
- OEM: Original Equipment Manufacture; similar to ODM, but with the company only being responsible for manufacturing.
- OBM: Original Brand Manufacturing, or when companies that previously specialized in OEM and ODM newly create and produce their own brand.
- CSR: Corporate Social Responsibility, or practices and policies undertaken by a company to ensure a positive impact on society.
- RE100: Refers to a company providing 100% of electricity used through renewable energy sources.
- ESG (ESG Investment): An abbreviation of Environment, Social, and (Corporate) Governance. It is believed that these three factors are vital for the long-term growth of a company. ESG Investment refers to investing not just based on financial information, but rather selecting companies committed to ESG.
- TCSA: Taiwan Corporate Sustainable Award, an award is presented to Taiwanese companies that have cleared ESG standards and other evaluation criteria.
- DJSI: Dow Jones Sustainability Index. The DJSI is a stock index jointly developed by Dow Jones & Company and SAM of Switzerland which selects companies with excellent sustainability performance.



Worldwide sales of the AERO series are geared toward creators, and the AORUS series geared toward gamers.

#01

Greening the Roof of the Main Office Building Engaging in Sustainable Development Education In and Out of the Office

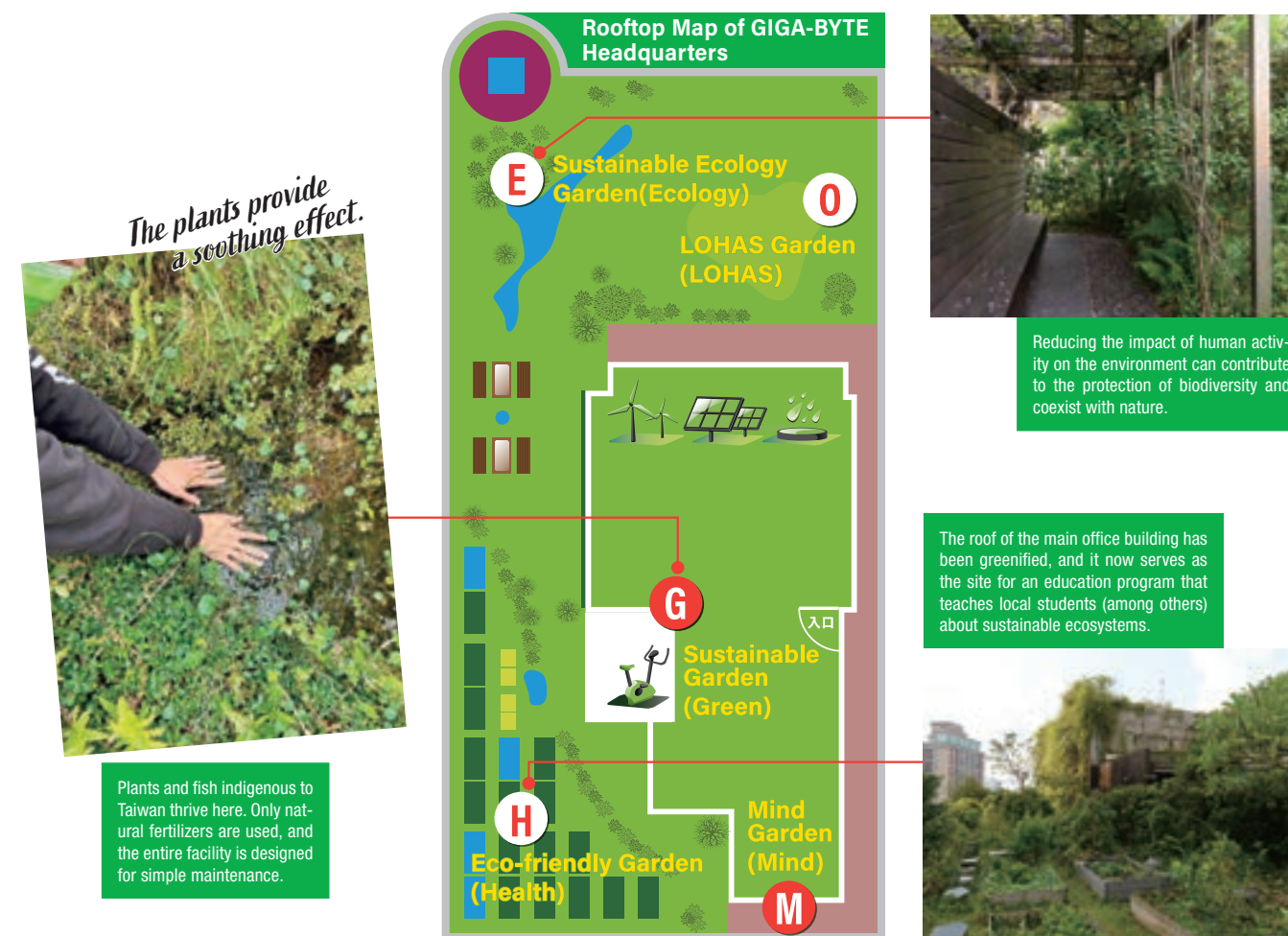
industry_Computer hardware

GIGA-BYTE TECHNOLOGY CO., LTD.

Founded in 1986 in Taiwan, GIGA-BYTE TECHNOLOGY has continually created groundbreaking products and solutions for PC users and business partners worldwide, ranging from PC hardware to business server solutions. Having already established solid standing globally as a leader in the motherboard and graphics card market, GIGABYTE continues to push its research and development forward to accommodate new technological advancements and trends such as 5G, AI, and AIoT in order to

provide even more advanced solutions.

GIGABYTE began a CSR awareness program in 2002, which has now expanded greatly by linking with ESG and SDGs. A significant milestone was reached in 2015, when after the greening of the main office building's roof was completed, the area was certified as an educational facility for observing sustainable ecosystems. Named "G-HOME," classes for nearby elementary school students and the general public have contin-



ually been held at this site, where now over 400 organizations and 3000 people have visited. Greening building roofs has various beneficial effects, such as lowering the temperature of cities, preventing overheating, and improving fire safety. However, what makes G-HOME unique is that the education and peace of mind gained is not exclusive to employees, but also made available to society at large.

In regards to the manufacturing process, a major accomplishment was the acquisition of IECQ QC 080000, an international license for the management of hazardous substances in manufacturing PC components. Major recycling efforts in both B-to-C and B-to-B has led to a 97.6 % recovery rate after product maintenance. Furthermore, in an effort to de-plasticize,

GIGABYTE developed "Recycle Fiber of Plant," a material made from 100% rice husk, the first such material ever created. The material is used in the packaging of PCs, and since no chemicals are added during the manufacturing process, it is 100% biodegradable.

On the consumer front, campaigns such as "One Tree One Laptop" campaign have been initiated. Said campaign was conceived in collaboration with Plant-for-the-Planet, a charitable foundation started by the German environmentalist Felix Finkbeiner when he was 17 years old. "One Tree One Laptop" pledged that for each laptop sold, a tree would be planted in a developing country. The campaign is ongoing, with a total of 88,039 trees already planted by 2020.

Industry Trend

PC Hardware

GIGABYTE's main business is PC hardware. Primary markets are Europe and the U.S., and in those markets, it boasts #1 in market share for motherboards and #3 in market share for graphic cards (as of April 2021).



Company Information

Chairman : Dandy Yeh
Establishment : 1986
Business Operations : Computer and computer peripheral manufacturing and sales
Total employees : Approx. 7,000



Action on SDGs



Excellent
Products



The AERO 15 OLED, featuring a gorgeous 4K screen.

Product's Point

When it was discovered that among the gamers, there was a contingent who placed great importance on specifications like monitor resolution, it provided the impetus to create the AERO 15 series. Although GIGABYTE only joined the laptop market in 2019, the demand for high-performance models in the market has led to the release of new models at an astonishing speed, and the development of an even higher tier model is currently being discussed.

High-performance models for
two target user bases : creators and gamers

AERO 15 OLED / AORUS 17G

model number : AERO 15 OLED : YD / XD / KD
AORUS 17G : XD / KD

Designed with creators in mind, and with an exclusive partnership with X-Rite™ Pantone®, each AERO 15 OLED is put through a color calibration test set to the highest world standards before leaving the factory. Featuring an abundance of expansion interfaces and card slots, the AERO 15 OLED is more than ready to meet the multitasking needs of users.

The AORUS 17G was designed under the supervision of the world-class esports team G2 Esports, and it is geared toward hardcore and professional gamers. Equipped with the world's thinnest and lightest mechanical keyboard, the AORUS 17G still maintains a keystroke actuation depth of 2.5 mm, making entering keys a breeze.



Profile

GIGA-BYTE TECHNOLOGY CO., LTD.
Product Manager **Joanna Cheng**

Working in conjunction with the R&D team, and through dialogue with consumers, She introduces new products to the market.

interview

Raising SDGs awareness
among consumers
is our responsibility

Our company's SDGs and CSR endeavors are not simply about donating money to help. We teach high school students how to repair computers. Executives travel across Taiwan to personally plant trees. Any chance we have for direct action, we try to take it. Thankfully, our products have received praise from the market for their quality and performance, but our responsibilities go beyond providing good products. For example, we need to inform consumers about carbon emissions that result from the manufacture and use of our products, and at the same time talk about the importance of maintaining ecosystems.

When talks of greening the roof of our building began, we studied many fields and disciplines in order to design a space that faithfully recreated the natural environment of Taiwan, but still required only minimal maintenance. Currently, volunteers inside the company perform about an hour of maintenance every two months. Even with such little maintenance work, the number of plant species in the garden area has grown from the original 180 to now over 260 species.

Profile

GIGA-BYTE TECHNOLOGY CO., LTD.
Senior Director **Rolance Chu**

The first laptop R&D head of the company. He took this position after organizing the intra-company "Zero Waste/Zero Pollution Committee" in 2015.



ePaper can even serve as decorative art, with images that can be changed to fit your mood.

Thin, lightweight, and extremely durable, ePaper can be folded just like traditional paper.



#02



E Ink CEO Mr. Johnson Lee (second from left) together with the members of his interdepartmental SDGs task force.

ePaper: An Eco-Friendly, Sustainable New Material is Changing the World

industry_ePaper

E INK HOLDINGS INC.

Founded in Taiwan in 1992, E Ink Holdings Inc. is a pioneering LCD display manufacturer that handles everything from R&D to production, winning over clients from around the world. With the subsequent rise in popularity of eReader, at the start of 2000 they shifted their focus to the electronic ink and ePaper technology field, establishing headquarters not only at home in Taiwan, but also abroad in the U.S., China, Japan, and South Korea.

As a new device to replace traditional paper, electronic paper (ePaper) holds numerous dramatic possibilities. ePaper display can be updated easily with UHF (ultra-high frequency) waves and NFC (near-field communication), giving immediate access to the latest information. Emitting no blue light, it's easy on the eyes, and it's extremely efficient as well, consuming energy only when changing screens.

Furthermore, it's lightweight, highly portable, and damage-resistant, and it can be written on, folded, and rolled up with ease. In 2020, E Ink Holdings succeeded in their goal of realizing color support.

At E Ink, SDGs, CSR and ESG have always been indelibly tied to their products. Have you ever thought about how much paper we use in our daily lives? Particularly in Japan, it is said that

A characteristic feature of E Ink's ePaper is that it can display images even when powered off.



the amount of paper used in a day is among the highest in the world.

In the past five years, E Ink have sold 130 million eReader and 400 million Electronic Shelf Labels. This represents 22 million trees saved and a carbon footprint reduction of 2.37 million tons.

As a pioneer in the field of ePaper, an eco-friendly and sustainable solution material, E Ink is actively shifting to renewable energy sources in its manufacturing process, such as using electricity generated by solar power, re-using water reducing the total amount of water used. It can be said that the company's core value is that its products themselves embody SDGs.

E Ink's corporate philosophy is "Go Green"—friendly not only to humans, but also to the environment. They seek to build an ideal win-win relationship between humanity and the earth.

Industry Trend

Electronic Paper (ePaper)

Electronic paper is said to be a 30 billion NTD (over \$1 billion USD) industry per year, and E Ink boasts an over 90% market share. In the eReader field, their ePaper are used in leading products like the Amazon Kindle and Rakuten Kobo. From electronic tags to transportation signage, wearable devices, and more—the possibilities are endless.



Company Information

CEO : Johnson Lee
Establishment : 1992
Business Operations : ePaper research and development, manufacturing and sales
Total employees : Approx. 2,700



Action on SDGs



Excellent Products

Taiwan Excellence Gold Award 2021

A world-first achievement: full-color ePaper

Advanced Color ePaper Display System

model number : AC133UT1

The Advanced Color ePaper Display System is the world's first technology of its kind, with a panel equipped with ePaper that can dynamically mix four colored pigments—cyan, magenta, yellow, and white—to realize a full spectrum of colors. With visual effects resembling printed ink, and a delicate touch like traditional paper, it features network connectivity allowing it to be updated remotely. ePaper consumes power only when the screen is changing image, and supports either battery or solar power. As it can display even when disconnected from a power source, it can convey information even during emergencies.



Emitting no light, ePaper is easy on the eyes, and maintains superlative readability even under natural light.

Product's Point

Since the beginning of 2000, when they developed their first ePaper product, E Ink Holdings has spared no effort to achieve their goal of color support, pouring some 17% of their yearly profits into R&D. Now, after transcending language barriers, cultures, and time zones to share vital know-how among their headquarters in America, Japan, mainland China, and Taiwan, this dream has become reality. Though 90% of customers for this product are from overseas, E Ink makes a point to collect feedback from clients directly rather than going through marketing firms, and works tirelessly to reflect it to improve its projects. As a result, they have seen an increase in orders from both new and existing clients. In Japan, major companies such as Isetan, Bic Camera, and Uniqlo have adopted electronic paper as Electronic Shelf Labels.

Electronic Shelf Labels



Energy-efficient ePaper is being extensively used for Electronic Shelf Labels in the retail industry. Thanks to easily updated displays, dynamic pricing is a breeze.

Signage



ePaper is also being widely used in transportation signage, such as digital bus stop in Taiwan. Self-powered through solar energy, it can also store energy in an internal battery.

Smart Tags

ePaper is also contributing to smartification across a wide variety of industries by replacing traditional paper at medical institutions, corporations, and in household devices.



Profile

E INK HOLDINGS INC.
CEO Johnson Lee

Joined E Ink Holdings just as the company was shifting its business model and entering the ePaper industry, and helped grow the company into the largest ePaper display manufacturer in the world. Also intensely focused on promoting SDGs.



At E Ink, we place great value on contributing to SDGs through our manufacturing process and company operations.

For example, these days, we are devoting our efforts to introducing ePaper to the education world, which we feel is vital. If textbooks are replaced with ePaper, children's backpacks will be lighter, and their eyes saved from stress. Since ePaper is energy efficient, schools are required to provide only a minimum amount of energy for charging. If education itself is further digitalized, teaching will be able to shift from a one-size-fits-all approach to one where materials are tailored to suit individual students' needs.

We joined together with our ecosystem partners around the world to launch the "eRead for the Future - Mobile eLibrary Establishment Project (e啟讀出未來)" to promote digital reading, and up to 2020 we have donated countless eReader and eNote, eBooks to schools and libraries in the U.S., mainland China, and across Taiwan. At E Ink, we strongly believe that when

children gain a variety of knowledge through reading, their horizons will be broadened.

In addition to the education of our children, we are also actively engaged in the human resource development of our employees as an international corporation. Last year, we had 12 staff members selected from our

branch offices across the world to attend Executive Education Program at Stanford University and the United Nations Young Talent Development Program. In addition, we hire from all over the world and are always looking for ways to make the company a place where our employees can make full use

of their talents. We also contribute to society by holding and actively participating in charity events.

At E Ink, we see our employees are the assets of the company, and they are very important to us. We intend to continue to make further commitments to the SDGs together with employees and external partners, transcending borders.

interview
Serving as
a Role Model in SDGs
for Others to Follow

#03



TG's first flagship store can be found on the first floor of the company headquarters. The entire store was designed by Japanese designer Naoto Fukasawa for TG brand.



A pair of TG glasses makes a great gift. There is also a box set which comes with tea leaves, elegantly packaged with a ribbon.

Taiwan Brings Eco-friendly, Long-lasting Glass to the World

industry_Glass

TAIWAN GLASS IND. CORP.

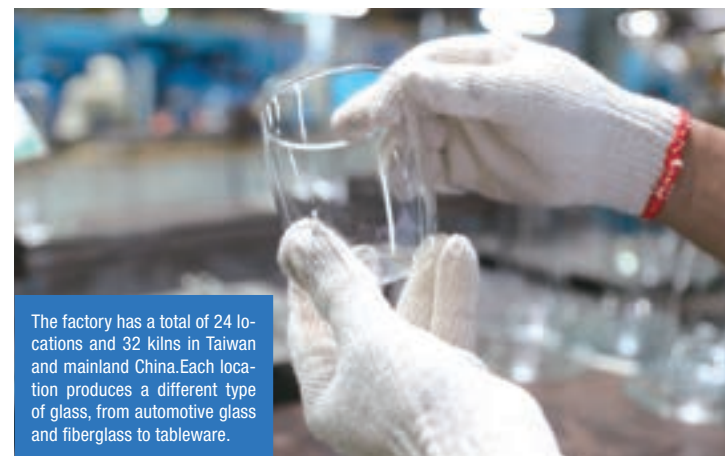
Founded in 1964, Taiwan Glass built its first factory in Hsinchu—a town in northern Taiwan famous for its abundant deposits of silica sand and natural gas, the raw materials for glass. At the time, the company was engaged in the manufac-

ture, processing, and sale of glass containers and tableware, plate glass for construction and automobiles, and glass fiber cloth in technical collaboration with foreign companies. In 2018, the company established its own brand, TG, inviting



red dot winner 2021

In 2021, TG was awarded the Red Dot Design Award, receiving global acclaim for its business and product design.



The factory has a total of 24 locations and 32 kilns in Taiwan and mainland China. Each location produces a different type of glass, from automotive glass and fiberglass to tableware.

world-renowned designer Naoto Fukasawa to design all product series, focusing on tableware, shifting its business from B-to-B to B-to-C.

In 2021, TG was honored with the Red Dot Design Award in dual categories: product design and packaging design. TG will exhibit at the Red Dot Design museum at Essen, Germany. Going forward, the company plans to expand its sales channels overseas.

Taiwan Glass is continually focused on ways to contribute to the environment. In 1998, the company succeeded in mass-producing of Low-E glass within Taiwan, which has thermal barrier and energy-saving effects. In 2018, the company improved its wastewater treatment system at the Hsinchu plant, increasing the amount of water recovered from 50 tons to 200 tons.

The company primarily uses materials with a high recovery and recycling rate and low impact on environmental pollution (glass, white porcelain, SUS304 stainless steel, Taiwan acacia). Waste glass is screened at the factory and reused in products. The average collection and reuse rate for edible glass containers has reached 56.4%. In addition, 100% of the glass containers and tableware meet Taiwan's food container and packaging hygiene standards, and have obtained FSSC 22000 (food safety) certification, along with environmental and safety certification for all products.

Taiwan Glass is committed to improving the environment for employees working in its factories, emphasizing education and training, and providing opportunities to participate in internal

and external courses. Of particular note, the rate of women returning to work after parental leave is 100% (2019).

The company is also committed to social contribution, and in 2019, each of its plants donated 243 bags of blood in response to a nationwide blood drive. Furthermore, the company's TGI Cultural and Educational Foundation has provided NT\$29.35 million in scholarships to students from 2000 to the present.

Taiwan Glass aims not to make a large number of copies, but to produce glass products that will be used for a long time in harmony with the environment. The company is also committed to its employees, believing this to be a sure way to contribute to achieving SDGs.



Next to the showroom at the flagship store is a café space where guests can enjoy light meals and drinks served with TG Brand tableware.

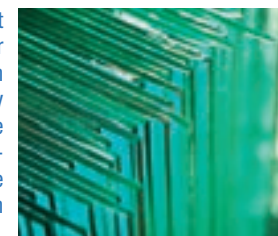


TG collaborates with the Italian restaurant IL MERCATO at the café space, the food is drawing rave reviews.

Industry Trend

Glass

Taiwan Glass is the fourth largest energy-saving glass manufacturer in the world and the first largest in Taiwan. The technology and quality of its glass fiber products have always been key to their competitiveness, allowing them to achieve the largest market share in Taiwan at approximately 55%.

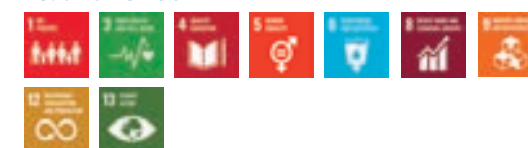


Company Information

Chairman : Lin, PF
Establishment : 1964
Business Operations : Manufacturing and sales of glass products
Total employees : 14,738



Action on SDGs



Excellent
Products

Combining functionality and design

Heat-resistant Water
Pitcher Set

model number : GPIA038012T / GPIA076012T

A heat-resistant pitcher (760ml) and cup (380ml) in one set. Made of borosilicate glass with an expansion coefficient of $\alpha 33$, delivering a maximum heat resistance temperature of 400°C, and endures sudden temperature changes within a range of 150°C. The pitcher can hold boiling water right after refrigeration. The glass will not rupture due to instant temperature difference, thanks to heat-resistance glass. The rim of the cup is thinly processed using a laser cutter used for crystal glass, so you can enjoy your beverage with a fine mouthfeel. Manufactured by CNC machining and semi-manufacturing, which enables stable and accurate processing, the cup does not sway on flat surfaces despite its round shape.



The showroom exhibition is overseen by the Taiwanese wire artist Mr. Bor-Jen Liu.



The U-shaped design for drinking water is the basis of all TG glassware.



TG products can be purchased online from sites such as 100% Inc. and Pinkoi.



Saucers made of Taiwan acacia and heat-resistant glass coffee cup. TG produces more than just glass products.



This heat-resistant mug set includes a lid and filter for tea leaves.

Product's Point

The U-shaped cup, with its smooth curved lines, was designed by Naoto Fukasawa to express the warmth of the Taiwanese people, and is the basis of TG's design. This cup is a particular favorite of the designer. The perfection of the glass lamination process can be observed with just a touch. After five years of development, the product is lean, functional, and simple. With a design that is unique in the world, it is instantly recognizable as TG.

TG

dards: FSSC22000, ISO9001, and the ISO14001 Certification. The Hsinchu plant responsible for all TG glassware has passed ISO50001, ISO14064, and ISO45000.

At Taiwan Glass, we will continue to deliver products that can be used and loved across the ages to the world. We believe the creation of such sustainable products will directly connect to SDGs.

We believe that when we look at tableware, we must study the lifestyle and culture of the time—how people used the products, and how they lived. The U-shaped design can be seen as Asian, but also reflects more than 200 years of history. If one were to look at the "TG" glass container 100 or 200 years from now, one would find its design simple, yet necessary as such. It reflects the archetype of a certain sort of daily lifestyle of the contemporary East-Asian people.

In addition to their design, TG glass containers challenge the limit of 2 millimeters. The thinner

interview

Delivering Timeless
and Distinctive Products
to the World

the glass, the more directly the liquid enters the mouth, enhancing mouthfeel. Our glass has no extra layer on the rim, allowing all flavors to be better enjoyed, whether coffee, tea, or alcohol. Extra layers on the rim cause excessive exposure to air when the drink is poured, leading to oxidation. With beverages, it is key that the flavor is unaffected by the container and external environment.

TG series uses four kinds of materials: Glass, Stainless steel, White glazed porcelain, and Taiwan Acacia Wood. These four materials not only speak to their Taiwanese origin but also the brands' authenticity: using non-causative agents of environmental hormone, non-plastic and non-hidden materials. All TG tableware products are 100% compatible with international stan-



Profile

TAIWAN GLASS IND. CORP.

Supervisor Aaron Huang

Studied design history and curatorial implementation at the Parsons School of Design in New York City and Paris. Joined TG in 2019, and now serves as a supervisor.



An EV charging facility in front of DELTA's U.S. headquarters. The company's goal is to have all of its official vehicles be electric by 2030, and to install charging stations in all of its locations.

#04

Leading a New Age with Ecological, Energy-saving, Earth-friendly Solutions

industry_Power and thermal management solutions provider
DELTA ELECTRONICS, INC.

The oil shock of the 1970s ushered in an energy crisis. Factories in Taiwan had their power restricted, and many stopped operating entirely. DELTA ELECTRONICS, founded in 1971, saw a problem in the power conversion efficiency of only 50%, and began R&D solve the issue of power waste. One could say that the company's commitment to SDGs had already begun at this time, when it started developing compact, high-efficiency

switching power supplies. Today, DELTA has three core businesses: "power electronics," "automation," and "infrastructure." Among these, power electronics, which has been a specialty since its founding, still accounts for 50% of its business, with the company consistently striving to improve its power conversion efficiency technology. DELTA has provided power supply products with a high level

of energy efficiency to the industry, such as switching power supplies with an efficiency of 90% or more, power supplies for telecommunications equipment with an efficiency of 98%, and PV inverters*1 with an efficiency of 99.2%.

Furthermore, DELTA's certified server power supply with an efficiency of over 96% was the first in the world to meet the 80 PLUS Titanium standard. They receive orders from major clients, with DELTA products accounting for over 50% market share in powering the world's servers. From 2010 to 2020, these high-efficiency products have reduced global electricity use by 33.5 billion kilowatt-hours and CO₂ emissions by 17.80 million tons.

DELTA has established 75 R&D (Research and Development) centers around the world and is committed to investing at least 8% of its total revenue each year in product R&D and cutting-edge technology. About 10,000 engineers are committed to R&D of efficient, energy-saving products, sharing a common dream of a sustainable future for mankind.

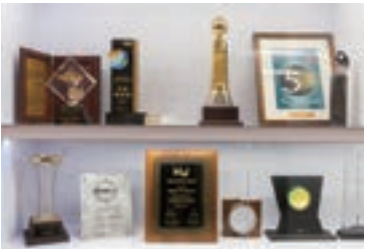
DELTA also has made it a mission to protect the environment and save energy through green buildings, solar power generation, and EV charging facilities. The company provides a wide range of high-efficiency equipment and innovative services, from switching power supplies, electronic components and

displays to renewable energy solutions. In March 2021, DELTA became the first high-tech manufacturing company in Taiwan to join the RE100 initiative, which commits to using 100% renewable electricity and becoming carbon neutral. The company's goal is to achieve this goal by 2030 for all of its global locations. Leading-edge energy-saving technologies and energy solutions are DELTA's core identity.

*1 A device that converts the power generated by solar panels into AC power.



Foop, an IoT hydroponics machine developed by DELTA's Japanese subsidiary, allows vegetables and other plants to be grown indoors.



DELTA has received a variety of awards, and has also been selected as one of the Asia's Fabulous 50 Companies.



DELTA's products are used widely across industries, including transportation, communications, and manufacturing (e.g. semiconductors)

Industry Trend

Supplying Power

DELTA ELECTRONICS, the world's No.1 power supply company by sales, has 50 years of experience and achievements in power technology and energy management. The company participates in international organizations, and its Taipei headquarters building and data center have received the highest platinum certification under the LEED environmental performance evaluation system for buildings. Furthermore, DELTA has voluntarily set a goal of reducing CO₂ emissions. After that, the company was evaluated as a leader of the industry for the third consecutive year in the Socially Responsible Investment Evaluation of DJSI. In 2010, DELTA received an order for a charging pile for EVs in the U.S., and today it is a Tier 1 supplier of EV electrical components.

Company Information

Chairman : Yancey Hai
Establishment : 1971
Business Operations : Power and thermal management solutions provider
Total employees : Approx. 80,000



Action on SDGs



Excellent Products



Compatible with all of the world's mainstream charging standards, it can charge EVs from any manufacturer.

The defining feature: compact but powerful

Electric Vehicles AC Charger

model number : AC MAX

The AC MAX has a maximum AC output of 22kW, which is three times faster than ordinary EV chargers. As a lightweight and compact product that can be wall-mounted, it can be installed even in places where space is limited. AC MAX plays a critical role in the charging system that is designed to connect electric vehicles, power grids, and charging network operators, allowing users to search for charging stations, schedule charging appointments, and manage charging schedules, while allowing vendors to integrate with energy management and payment systems. AC MAX is a pioneering EV charger that will promote the development of charging infrastructure and lead to the realization of an e-mobility society.

Taiwan Excellence Silver Award 2021

NEWS EV Charging Station Opens in Yokohama

In 2020, DELTA and Idemitsu Kosan Co., Ltd. jointly opened a complex of EV charging stations in Yokohama. It will take three years to verify the superiority of the station as a demonstration store, and then the company will consider expanding the station outside of Yokohama City. The facility, which includes recharging facilities, a parking lot, and a café, is considered a disaster response base by the local government and can be used to recharge disaster relief vehicles. In the unlikely event of a major power outage, power can be transmitted from the rescue vehicles to buildings or grid. As an energy solution for future smart cities, we look forward to its future development.



In 2004, our founder, Mr. Bruce Cheng, asked me to summarize the Kyoto Protocol. It was not difficult to do, but I thought it was important to make our employees feel that it was worth reading. Subsequently, I created our management philosophy and corporate culture around the ideas of "To provide innovative, clean and energy-efficient solutions for a better tomorrow."

Then, in 2005, Mr. Cheng asked me to write an article about the company's purchase of a second-generation Prius, and an article on our experience was published in the newspaper. The purpose of this was to "show the world the electric vehicles of the future," "communicate their importance to the environment," and "show the business opportunities within the company". I interpreted it as meaning that our R&D team should research electric vehicles, and this led to our EV charging solution.

For us, SDGs are the source of our profits. Fostering a corporate culture of contribution to the international community and ensuring that all of our employees are up to the task is the key to DELTA's ESG success.

Profile

DELTA ELECTRONICS, INC.
Chief Sustainability Officer and Spokesman
Jesse Chou

Established DELTA's Corporate Communications Department, and is responsible for internal and external communications. In 2019, he assumed the role of DELTA's first Chief Sustainability Officer.

interview

SDGs and Generating Profit

Go Hand-in-hand

Many countries around the world have already announced future bans on the sale of gasoline and diesel-powered vehicles, and it is said that the era of electric vehicles will arrive in 2030. Mr. Bruce Cheng, founder of DELTA, recognized the trend in 2008 and started to invest in research and development of key technologies around electric vehicles. In doing so, we have established a foothold in the electric vehicle supply chain and led other Taiwanese automakers to enter the international market.

Electric vehicles are not yet in widespread use across the globe, and there are issues that need to be resolved, such as the development of related laws and consumer habits. However, energy conservation is a common goal worldwide, and reducing carbon dioxide emissions is a concern of the international community. We, together with strategic suppliers and partners, intend to invest our time, energy, and money generously to develop the best possible products.

Profile

DELTA ELECTRONICS, INC.
Product Manager of EV Charging Solutions BU **Mingyu Jiang**

Committed to creating the most user-friendly and environment-friendly e-mobility infrastructure of the future.



Electric Scooter improve quality of life, enabling even those who have given up because of age or an inability to walk to go out and travel.



All parts are 100% made in Taiwan. The full suspension system absorbs shock and provides exceptional ride comfort.

#05



Merits' headquarters and factory in Taichung was newly constructed in 2011.

A QOL-Improving Electric Scooter, Born from a Wealth of OEM/ODM Experience

industry_Electric and Manual Wheelchairs

MERITS HEALTH PRODUCTS CO., LTD.

It is well known that these days, Japan's birthrate is declining and the population is aging, leading to a population aging at the fastest rate in the world. The truth is that Taiwan also faces a similar crisis of declining birthrates and an aging rate expected to exceed 20% by 2025. Despite this, public assistance for nursing care products and welfare equipment is insufficient. Still, there is one manufacturer in Taiwan that has drawn the eye of the U.S. and Europe, where advanced medical and welfare systems are being developed.

Established in 1986, Merits Health Products is one of the top five manufacturers of electric and manual wheelchairs as well as electric scooters in the world. Merits has produced brand-name products for advanced welfare nations such as Germany, Canada, and the Scandinavian countries. At the London Paralympic Games, four countries used Merits products through "Motivation", a British brand of distinctive wheelchairs, and the company continues to explore the possibilities of electric and manual wheelchairs in various situations.

Founder and Chairman of Merits Min-Chuan Cheng majored in mechanical engineering at National Taiwan University. Initially, the company served OEM contractors for the bicycle industry, but upon entering this industry they began producing manual

Merits' current focus is on stairlifts, which expand living space and help to improve quality of life.



wheelchairs and walkers in response to customer requests. In 1989, the company opened a branch office in Florida to handle OEM and ODM for the largest nursing case product brand in the U.S. Gaining experience and building trust, the company then obtained FDA (Food and Drug Administration) and ISO 13485 certifications in 2002 and 2003, respectively, and launched its own brand in some countries since then. Now, the company also produces and sells electric chairs for multi-functional rehabilitation as well as stairlifts. The company has also partnered with some Japanese major brands and manufacturers.

Welfare support systems and user needs differ widely depending on country and region. Merits' knowhow in the fields of design, human body engineering, and technology—as cultivated through their extensive OEM and ODM experience, painstakingly meeting even the most detailed and demanding requirements one by one—supports the imagination that allows them to manufacture products envisioning the requirements of their users.

Industry Trend

Electric and Manual Wheelchairs

Merits is one of the top five manufacturers of electric/manual wheelchairs and electric scooters in the world, once having accounted for 15% of the world's electric wheelchair production capacity. Currently, 50% of the company's business is targeted at the US market, but the company aims to further strengthen its partnerships with Japanese companies.



Company Information

Chairman : Cheng, Ming-Chuan
Establishment : 1986
Business Operations : Manufacture and sales of electric/manual wheelchairs and stairlifts
Total employees : Approx. 350



Action on SDGs



Excellent Products

A joy to ride!

Achieves high-precision motion control with just one hand and subtle finger pressure.

The height and angle can be precisely optimized to suit the user.



Easy to fold and can be stored standing in narrow spaces.



A collapsible electric scooter
Comfortable for both body and mind!

Folding Mobility Scooter

model number : S546 SCOO

The first foldable electric scooter features side steering control system designed to make it easy to move about the room, allowing the user to maneuver and adjust as desired. It can also be loaded in the back of a passenger car, making short trips or errands a dream. It is designed to have a wide range of motion relative to the user, making it easy to move the body and less of a mechanical presence to the people when compared with conventional products.

The controller can be easily operated with one hand, and its height and position can be fine-tuned to suit the user's needs. The battery, which can be recharged, can be detached and carried onboard an airplane.

Product's Point

In the past, pursuing technical functionality would result in a more mechanical appearance. However, In the European market, products that look clumsy or intimidating are not accepted, no matter how impressive the technology may be. With this scooter, **we succeeded in the challenge of making a graceful product that would make users feel comfortable and free.**

Conventional products usually have the front body in front of the user, with the simple control panel attached to it. This one, however, is designed to have **the controller at the side of one of the user's hands—left or right—for easy operation.** It overturns the conventional image of electric scooter as "vehicles", making them instead **feel like an extension of the human body.**



The S546 SCOO was developed in collaboration with the Japanese company CURIO, and is sold exclusively by CURIO in Japan.

Following similar trends in Japan, Taiwan has recently seen the spread of an initiative known as "Care Cafés". These community centers function as combination of a day care center and local community center. Here, senior citizens can participate in various recreational activities while also contributing to the store's services by making coffee for others, and so forth. This kind of time and experience provides an opportunity for the elderly themselves to reevaluate their cherished values, which leads to an improvement in their quality of life (QOL). It is also a place where care assistants can take a break from the physically and mentally exhausting work of caring for the elderly.

This is precisely the sort of benefit that we at Merits hope to provide through the manufacture of wheelchairs and nursing care equipment. The S546 SCOO, which won the Taiwan Excellence Award this year, is not only comfortable to ride, but we also tried to create a product that would make the user look as "elegant" as possible to help improve their self-esteem.

For example, the height and angle of the seat can be adjusted to a considerable range. With conventional products, users often feel as if they are being looked down

interview Creating Products that Enable Everyone to Live with Dignity

upon by those around them. At the same time, many people don't want to ride in a large vehicle with an imposing presence because they might be perceived as "sickly" or "elderly." This shows how deeply design is interconnected with the user's self-esteem.

If we can boost the user's self-esteem through stylish design, won't that encourage them to go out more? This product was born from this thought. It can be used to go for a walk, go shopping, or pick up one's grandchildren. It can also be folded up and loaded into in a passenger car or airplane, so you can travel with it. People will no longer be hindered in their desire to do things on their own, even as they age or lose their physical freedom due to illness. We believe this will lead to independent living, which is closely linked to a positive self-image.

Profile

MERITS HEALTH PRODUCTS CO., LTD.

General Manager **Jonathan Cheng**

After studying law at university, he joined the U.S. branch in 2006 and has been focusing on establishing the company brand. As a second generation executive and GM, Mr. Cheng is committed to promoting SDGs within the company.



In addition to racing sports featuring tires, such as the Motocross World Championship (MXGP), Cheng Shin also sponsored the NBA and MLB. Through cycling events and other activities, the name value of MAXXIS tires grew rapidly.



#06

A Taiwanese International Tire Brand Focused on Interpersonal Relationships

industry_ Tire & Tube

CHENG SHIN RUBBER IND. CO., LTD.

Chances are you've heard of the tire brand MAXXIS, produced by the Taiwanese manufacturer Cheng Shin Rubber Industrial Co., Ltd. Founded in 1967, Cheng Shin boasts the world's ninth-largest share in the tire industry, and is the world's largest bicycle tire manufacturer, selling its products in more than 180 countries around the world.

Cheng Shin's industry-leading track record is powered by its core values of "100% Quality, 100% Service, and 100% Trust," and a passionate commitment to its specialty of tire manufacturing. At Cheng Shin, employees, business partners, and customers are all considered part of the "MAXXIS Family," and the company has grown together with its family through a people-oriented approach.

The "MAXXIS Family" concept is also key to the company's approach to SDGs. Cheng Shin thoroughly monitors safety based on the principle that "the safety of our plants and employees is the safety of our tires and the safety of our consumers." Every year, free tire inspections are conducted at highway service areas, checking air pressure, tire groove depth, and tire appearance to prevent potential accidents.

Cheng Shin has also obtained ISO 45001 certification, and has a complete audit system to ensure and maintain a safe working environment. The company has also developed an occupational health protection plan for female workers. Cheng Shin's efforts to design eco-friendly products,



Cheng Shin's philosophy is the "Triple 3 System". Through the three parts serving as a whole, the company maintains an appropriate business model and creates new opportunities.



Since 2010, Cheng Shin has also supported the local community by distributing more than 100 free lunch boxes to senior citizens every business day.

As part of its social contribution, the company offers free tire inspections. As part of this initiative, they conduct a survey to promote tire safety.



reduce emissions and waste, and conserve energy will also help ensure safety for all human beings.

In addition to thorough safety management, Cheng Shin has not forgotten to give back to society. In Changhua County, where the company headquarters is located, it cooperated with the government to hold sports events (tennis, billiards, bicycle races, etc.) and public service seminars. Local hotels were fully booked during the three days of the event, bringing business opportunities to the region. A team from Cheng Shin also visited local schools to help secure employment for students. As a result of these efforts, Changhua has produced many talented people, and it is often said that "MAXXIS University" has nurtured many talented individuals.

Cheng Shin has been following this approach even since before the birth of the term SDGs. The three core values and the "people-centric attitude" that underlies them have been and will continue to be the foundation of the company's actions toward SDGs.

Industry Trend

Tires

Changhua County, is known as central Taiwan's "tire kingdom" due to the vast number of tire manufacturers concentrated here. Among them, Cheng Shin Rubber's tire production volume is the largest in the world at approximately 240 million tires. In addition to its seven factories in Taiwan, the company has facilities in China, Thailand, Vietnam, Indonesia, and other Asian countries. Among them, the Kunshan plant in China is a rare production base in the tire industry that integrates the three functions of R&D, manufacturing, and inspection. Cheng Shin is the only Taiwanese company to have received Toyota Motor Corporation's 2011 Regional Contribution Award.

Company Information

Chairman : Wally Chen
Establishment : 1967
Business Operations : Tires & Tubes manufacturing and sales
Total employees : Approx. 30,000



Action on SDGs



Excellent Products



Developed through racing experience

Scooter Racing Tire

model number : S98+

Butyl content of the inner rubber layer has been increased to 90%, resulting in a 40% increase in air pressure retention. The "Ultra-R" compound, formulated for racing, allows the tire to reach race-ready temperatures quickly.

Comfortable riding!



High performance sports tires

Sports Touring Tire

model number : MA-ST2

A sport-touring motorcycle tire that is designed for heavy-duty use. Features a strong grip for cornering stability, V-shaped design for drainage, and comfort in harsh weather conditions.



Used in World Championship races

Motorcross Tire

model number : MX-ST

A motocross tire with high casing stiffness, employing new materials designed for racing. Features improved cornering stability due to the design of the cross-sectional shape. Excess rubber use has been reduced, making the tire lighter and more environmentally friendly.



Pursuing safety and a comfortable ride

SUV Tire

model number : HPM3

An SUV specification tire with excellent traction performance regardless of dry or wet road conditions. Designed for safety first, compared to competitors' products it offers the ideal balance of ride comfort, fuel efficiency, and wear resistance.

High functionality with a striking look

ATV Tire

model number : ROXXZILLA ML7

Features a unique tread pattern that facilitates the forward movement of the vehicle. The cross-sectional shape is multi-layered to reduce weight. This climbing tire has a flat profile and a large ground contact area for excellent grip performance.



Used in UCI* racing events and more!

Road Race Tire

model number : High Road

A tire especially designed for road races, with 16% lower rolling resistance thanks to the silica rubber compound "HYPR". K2 (Kevlar composite) is used to prevent punctures.

*Union Cycliste Internationale, sponsor of the world's premiere road cycling tour.

The Japanese manufacturing world ascribes to the principle known as 5S, derived from the Japanese words seiri (sort), seiton (set in order), seiso (shine), seiketsu (standardize), and shitsuke (sustain). Within this, seiton (set in order) can be broken down into 3T: tei'i (where to put), teihin (what to put) and teiryo (how much to put). We have adopted this management method to improve production efficiency and safety on the shop floor. In addition, together with our business partners in the "MAXXIS Family," we are working toward SDGs and conducting plant tours.

We have learned from Japanese manufacturers, and are always conscious of keeping our promises in everything from product quality and factory safety to SDGs in recent years. We hope that our management philosophy can influence the entire tire supply chain to further enhance the value of sustainable development.

Profile

CHENG SHIN RUBBER IND. CO., LTD.

International Sales Manager /
Overseas Sales Department Head **Ming Pin Chen**

Primarily responsible for the Japanese market, including the development of new vehicle tire packages, after-sales service marketing, and channel promotion.



interview

Returning Profit to Society Through a Sincere Approach

We formed an internal CSR team in 2015. Our initial motivation was simple: to comply with the Taiwanese government's requirement to publish a CSR report. However, the report led us to realize that we were already contributing to society in various ways at that time.

In order to realize our corporate philosophy and establish our culture, we insist on having our own staff prepare the data for the CSR report, rather than outsourcing it. The establishment of SDGs has clarified our future direction and created a common language for us to communicate with customers overseas. Thanks to this, we have been able to more smoothly and efficiently contribute to society.

Sustainability is in itself improvement and progress. The MAXXIS family will continue to endeavor to use its influence to create a virtuous circle.

Profile

CHENG SHIN RUBBER IND. CO., LTD.

Marketing Planning
Deputy Manager / Assistant Manager **Eric Su**

In charge of CSR, SDGs, and various branding activities for the entire group.





Using Extensive Apparel Know-how to Go Beyond the Boundaries of Clothing

industry_Textile

MAKALOT INDUSTRIAL CO., LTD.

Makalot provides regular health checkups for its employees, and supports a variety of cultural and educational activities.



Makalot Industrial is a global apparel company with five headquarters and 17 factories around the world. The company's products range from lifewear, pajamas, and medical protective clothing to smart apparel (IoT clothes). The company's strength lies in its contribution to protecting Taiwan and saving patients around the world through medical protective clothing.



Casual protective clothing for daily use. Can be stored compactly, making it convenient to carry.

Between 1980 and 1990, many apparel manufacturers moved their production bases overseas due to inflation of the Taiwanese dollar. Mr. Frank Chou, Makalot's CEO and Founder who was an executive of an apparel manufacturer at the time, faced the threat of bankruptcy and unemployment himself. Undeterred by adversity, he founded Makalot with his colleagues in 1990, breaking away from the traditional OEM business model and shifting their business to ODM.

In 2017, the company established an innovation center in the city of Chiayi, located in south-central Taiwan, where it conducts its own R&D of materials. Makalot responds to orders from overseas with a computer-operated 3D dressing system. In addition to manufacturing, the company is continually researching how clothes can be useful in people's lives, developing boundary-spanning approaches from apparel to the medical field. Makalot also focuses education and training for women working in its overseas factories. In Vietnam and Indonesia, which suffer from educational disparity, the company is focusing on educating women in charge of manufacturing, and sharing knowledge on time management and finance. A total of 3,402 women have participated in this education training.

The apparel industry has come under criticism from United

Nations Conference on Trade and Development for being the second most polluting industry in the world. To address this, Makalot has planted 7,500 trees by the year 2020 to offset the carbon footprint of its headquarters. In the dyeing process as well, the company has significantly reduced water consumption and carbon dioxide emissions by using lower bath ratios and shortening processing time. Mr. Chou says, "Of course, we can take measures on our own, but the problem will only be solved if every company cooperates and the entire industry works together." Consumers, too, can only realize SDGs if each and every one of us takes action. We take the issue very personally, accepting the challenge and improving ourselves. This is what the company is all about.



Makalot's clients include global brands such as GAP, GU, Target, and H&M. They handle a variety of products including jackets and underwear.

Industry Trend

Apparel

Taiwan's textile and apparel industry has been growing since the 1950s, but it suffered from the COVID-19 pandemic in 2020, with gross output of NT\$15.69 billion—down 11.8% from 2019. Despite that, Makalot's posted their second-highest-ever after-tax profit, at 2.056 billion NT\$, a 7.98% increase YoY.



Company Information

Chairman : Frank Chou
Establishment : 1990
Business Operations : Apparel manufacturing and sales
Total employees : Approx. 34,000



Action on SDGs



Excellent Products



Training with a small exercise meter

eHealth Apparel

model number : MYZSM19CM010 / MYZSM18AW009

With the spread of COVID-19, smart healthcare through IT—such as remote medicine and remote fitness—has been drawing increased attention, and eHealth Apparel is one of them. It serves as a small exercise meter that can monitor your body condition 24 hours a day. Just by attaching it to your clothes, you can accurately measure data such as heart rate, sleep time, fatigue, stress, breathing, and calories, and check your body condition daily through your smartphone. Data can also be sent to gyms, medical institutions, and so forth via remote connection. It promises to meet a wide range of social needs in the future, such as preventive medicine and physical condition management for the elderly.



A revolutionary item that allows you to monitor your body condition in real time, 24 hours a day. There are several different designs.



Monitor your health with IoT!



Product's Point

The development of smart apparel using IoT technology was inspired by a request from an electronics manufacturer in 2016. Makalot was originally a producer of trendy fashion, so taking on a different field posed a major challenge. After considerable research, development, and eventually delivery of the product, they were convinced that **smart apparel was the future in fields like medicine**. This led to the development of smart apparel under our own brand. From the viewpoint of SDGs, **the materials are free of banned substances and heavy metals**, and the manufacturing process eschews the harmful chemicals in accordance with controlled substance and zero emissions movements.

Profile

MAKALOT INDUSTRIAL CO., LTD.
Project President, Open Innovation Center
Amy Liao

Amy Liao supports the promotion of Makalot's various SDGs and calls on colleagues in the company to join the ranks of volunteers.



In addition to our smart apparel and general lifewear that won the Taiwan Excellence silver Award, Makalot was also involved in the production of protective clothing to respond to the COVID-19 pandemic.

In 2003, when SARS broke out in Hong Kong, we were asked by the government to develop a medical protective suit. We had to start from scratch with all the materials, machines, and processes. The medical protective clothing had to be impervious to viruses—that's when we turned to raincoats for inspiration. We looked at the technology used to produce raincoats, and conducted R&D together with machinery manufacturers. Eight months later, the protective clothing was complete—though in the end, we never sold it since SARS had already come to an end. Because this sample remained from 17 years ago, however, we were able to respond to the government's request this time and capable of producing P3 protective clothing with the highest level of medical use in the world in large quantities within a month after receiving the order.

To tell the truth, the government's budget could not possibly cover the cost of production. Airfares were skyrocketing due to COVID-19, and the price of cloth was fluctuating daily. If the product did not pass expensive product tests, it would have to be redone many times, which also drove up the cost. However, we adopted an attitude of "not giving up on something because of not having the budget, but rather taking on the challenge of giving back to society." To that end, we created not only protective clothing for use in the medical field, but also casual protective clothing that can be used in everyday situations.

Our Humanities Development Education Foundation, founded fourteen years ago, proactively engages in social welfare and environmental protection activities. In the future, we hope to continue to emphasize our ties with society through various initiatives in industry-academia collaboration, as well as community activities such as tree-planting.

interview
A Medical Protective Suit Inspired by Raincoats

#08



The company has an in-house mask manufacturing plant. CPAP ventilators and air mattresses account for half of Apex's business.



In addition to energy-saving and low-carbon efforts in the manufacturing process and in the office, Apex thoroughly manages waste by promoting the reuse of discarded cloth in making bag (above), aprons, curtains, etc.

Medical Devices Powered by Taiwanese Technology Contribute to Global Healthcare!

industry_Medical Devices

APEX MEDICAL CORP.

Apex Medical Corporation began trading in Class I*1 medical devices when it was founded in 1990. In 2000, the company became the first in Taiwan to begin research and development of Class II*1 medical devices. In 2004, Apex extended its business globally by establishing its first subsidiary in Spain and subsequently conducted mergers and acquisitions of several overseas medical manufacturers.

By 2010, as Apex was steadily expanding, its core ODM business faced a crisis when major manufacturing clients ceased ODM operations to protect their own patents. In response,

Apex decided to develop its own brand and begin to heavily invest in the research and development of Continuous Positive Airway Pressure (CPAP) breathing apparatuses after seeing the business potential in treating sleep apnea syndrome.

However, Apex was later sued by ResMed, one of the largest medical device manufacturers of continuous positive airway pressure ventilators headquartered in the U.S., for infringing seven of their patents. The company faced numerous difficulties, including massive legal fees, but eventually won the lawsuit, and firmly established its position in the market. Al-



A decompression air bed is used to prevent bedsores among patients with severe cases of COVID-19, who require extensive bedrest time.

though the company was a late entrant in the space compared to its competitors, it pursued the "comfort" that was lacking in traditional products. Based on their expertise in the Taiwanese textile industry, Apex continued to make improvements to make the mask more comfortable for users, such as expanding the cloth area of the mask.

Apex CPAP WIZARD 510, with ten years of research and development, has won a Taiwan Excellence Gold Award this year. In Taiwan, there is a saying, "A sword can be sharpened in ten years," and this product is a perfect example. "Apex's journey has never been easy," says Daniel Lee, Chairman and Founder of Apex. "But we were able to overcome the hardships because of the confidence we gained from the development of continuous positive airway pressure respirator mask."

Wound-care air mattresses are another flagship solution of Apex, which have been in use for more than two decades and continue evolving every year. Amidst the COVID-19 pandemic, Apex has been providing medical air mattresses to various facility around Europe, through branch offices located in the UK, Germany, Italy, and France.

Apex believes that it is important to always consider the needs of users—patients and their families—as well as opinion leaders, doctors, and other medical professionals when developing medical devices. The company also understands the importance of supporting the insurance system in every country so that the products can be used effectively. Only by providing high-quality

products and services to medical facilities can we improve the quality of life for patients. Going forward, Apex will continue its research in products that will benefit aging societies, medical systems around the world, and public health professional, and always be humble and pay attention to the concerns of users.

*1 Class I: General medical devices that pose little or no risk to human life or health.
Class II: Controlled medical devices with a medium level of risk to the body, such as medical gloves, wheelchairs, and blood pressure monitors. Class II accounts for about 60% of all medical devices.



Apex's CPAP device WIZARD 510 is a recipient of won a Taiwan Excellence Gold Award in 2021, a great source of motivation and encouragement to employees.

Wound-care air mattresses are among Apex's flagship products. Employees love the products they design and take pride in what they do at Apex.



We love our products !

Industry Trend

Medical Devices

Apex is Asia's largest manufacturer of air mattresses for wound care and decompression, with over 200 international patents, 190 global safety certifications, and 337 medical product certifications. There are currently 8 branch offices outside of Apex headquarters in Taiwan, such as China, Thailand, Germany, Egypt, France, the UK, Spain, and the U.S. In addition, the company has partnered up with 142 distributors and 4200 dealers in more than 60 countries. Apex is also the designated brand for high-end pressure redistribution air mattress in hospitals in Europe.

Company Information

Chairman : Daniel Lee
Establishment : 1990
Business Operations : Development, manufacture, and sales of medical device.
Total employees : Approx. 670

Action on SDGs



Excellent Products



Headgear & Side Frames

The 3D shaped frame fits the curve of the wearer's face, so it does not block vision when reading, etc.

Connecting Tube

Designed for easy movement during sleep. Easy to remove and easy to change for convenient cleaning.

Fresh Tech

The patented exhalation port is very quiet and does not disturb sleep. The tube can be removed with one hand.



Products made with patients in mind

WiZARD 510

model number : WiZARD 510

A CPAP breathing device with a nasal mask used in the treatment of apnea syndrome. Compared to conventional products, this mask offers significantly improved ventilation and comfort. The exhaust valve is designed to allow for smooth breathing, and the design prevents air leakage at night, making it quieter than competitors' products. The ergonomic 3D design keeps the device in shape and makes it easy for the user to distinguish front and side.

Taiwan Excellence Gold Award 2021

Product's Point

In designing the product, Apex took into account the fact that face shapes can vary from country to country. The product is smaller and more compact than conventional stationary ones, making it convenient to carry around. The mask is made of soft and skin-friendly materials in response to patients' concerns that tight-fitting masks are uncomfortable. There is enough room in the fabric to turn the head when turning over in bed, so there is no discomfort.

Fighting on the front lines of COVID-19

Pro-care Turn

model number : Pro-care Turn

To prevent pressure injuries in bedridden patients, the system is designed to periodically change the orientation of the back by up to 30 degrees in automatic operation on behalf of the caregiver. The pressure can be adjusted according to the patient's needs by setting the patient's weight in advance on the electronic panel; since pressure exceeding 32 mmHg in the same position for two hours can cause pressure injuries, two air tubes disperse the pressure to improve circulation. It can be operated by one person to reduce the burden on caregivers. It obtained USFDA medical device certification, and is also equipped with a lock function to prevent malfunction.

Product's Point

All cylinders can be automatically filled with air, and each is equipped with an exhaust plug. By simply turning the plug, the air in a specific cylinder can be removed and adjust the pressure. It can be operated without touching the patient to prevent infection, and is designed to disperse pressure intensively in areas where pressure injuries are likely to occur. The outer cover is made of water-repellent, fireproof fabric.



Expand the air mattress and attach the control panel to the side of the bed for easy operation.

When the outer cover is removed, there is an exhaust plug on the side that can be used to control each air cylinder.



Profile

APEX MEDICAL CORP.
Chairman Daniel Lee

Graduate of Executive Master of Business Administration at National Chengchi University (NCCU). His uncle manufactured and sold wheelchairs, which inspired him to become involved in manufacturing and trading medical devices. Lee is currently the honorary chairman of Senior Citizen Welfare Association and a board member of TEBA (the Taiwan Excellence Brand Association).

When Apex first transitioned from OEM to OBM, we faced numerous competitions from global, tier-one brands, such as Philips and ResMed in the space of CPAP ventilators. Under these unfavorable circumstances, we considered resuming our OEM business, our former area of expertise, to gain immediate profits. When we were sued by ResMed, we lost not only money but also confidence. We were battered and bruised, but I led our employees to stand up for our belief in our products. It was not a smooth road for the brand, but we survived with persistence and relentlessness from all our employees. As a result, our employees, distributors, and partners around the world can now recommend our products with full confidence.

"Respect the value of life" was my motto when I founded Apex. Three decades have gone by. It remains the reason for our existence. However, this is easier said than done. What is important is for people to be considerate and respectful of each other. I try to practice this in my daily life and pass it on to my employees, such as by making eye contact when listening to others. I also believe that it is important to listen to patients directly rather than reading documents in an office. When designing a product, we must consider whether it will be effective and safe for the patients

who use it. We also take advice carefully from experts to create unique products distinct from other companies. Our brand concept is "Integrity, Expertise, and Innovation." Of these, "integrity" is of the utmost importance. What we undertake, we accomplish. This spirit is also reflected in our manufacturing.

Our company has deep ties with Japan spanning more than 30 years. We sell about 30,000 walking assistive vehicles for the elderly in Japan every year, accounting

interview
Seeking the Future
of Taiwan
through Medical Devices

for 25% of their domestic market share. Inspired by the Japanese welfare system and the Japanese people who instituted a job support system for physically challenged individuals, we also established a welfare association for the elderly in Taiwan. Through our exchange with Japan,

I have come to realize that "long hours of cultivation lead to a fruitful harvest." As Taiwan faces an aging society in the future, there will be much to learn from Japan's medical services and insurance system. We will continue to cooperate with the Taiwanese government, Taiwanese industries, and Japan's Ministry of Health, Labor and Welfare, in hopes of solving the problems of an aging society, and never forget our mission as a medical device brand.



A service robot designed using the TECO's original intelligent mobile platform(right).The "Smart UVC Disinfection and Epidemic Prevention Robot," the first of its kind in Taiwan, was developed and designed completely in-house and is capable of UVC irradiation from UV light and spray sterilization and disinfection(left).

TECO Motors Take on the World: 65 Years Since Founding, SDGs Spur New Trends in Manufacturing

industry_ Manufacturing of motor

TECO ELECTRIC & MACHINERY CO., LTD.

Founded in 1956 as a specialized manufacturer of industrial motors, TECO has since expanded its business to include heavy electrical equipment, home appliances, information technology, telecommunications, civil engineering, and more—in the pro-

cess, becoming a global company spanning five continents. Today, TECO's products can be found around the world, including motors, drive control systems, e-houses, smart factory solutions, and energy storage systems. All of these products

reflect the company's vision of "energy conservation, CO₂ emission reduction, intelligence, and automation."

TECO has received numerous ESG and global business-related awards, and has been widely praised for its commitment to ESG. Specifically, the company was selected for inclusion in the Dow Jones Sustainability Index (DJSI)'s Emerging Markets index in 2020, and was ranked in the top 50 for its CSR report in the Taiwan Corporate Sustainability Awards (TCSA), winning the Platinum Award for six consecutive years. The company has also been ranked in the top 5% for corporate governance by the Taiwan Stock Exchange Corporation, and has been selected as a constituent of the Taiwan Stock ESG Investment Index (FTSE4Good TIP Taiwan ESG Index), achieving outstanding performance in corporate sustainability.

TECO set a goal of reducing greenhouse gas emissions by 20% in the 10 years from 2015, and by 2019, it had already reduced emissions by 18%, or 90% of the target. This was achieved through the development of high-performance energy-saving motors and the streamlining of manufacturing through smart production lines established in Taiwan, Vietnam, and India. The company is also expanding into fields related to electric vehicles and offshore wind power generation.

An annual competition held by the TECO Science and Education Foundation—established in 1993—provides opportunities for young people to excel in science education and innovation, while also serving as a forum for international exchange. TECO also actively supports Taiwanese indigenous people in

establishing their ethnic identity and preserving their traditional performing arts. These activities are important aspects of corporate responsibility in Taiwan, where diversity is valued highly.

"Finding the right way to change in response to a crisis is what drives innovation. Smart production lines have played a major role in keeping our company competitive in the face of adversities such as the US-China trade war and the COVID-19 pandemic. TECO's AI team has also been working hard to implement a flexible development process, with food delivery robots, Autonomous Mobile Robot (AMR) robots, and disinfection service robots being introduced to production sites earlier this year," says Chairman Sophia Chiu.

Through a single-minded search for sensible ways to develop their business, TECO set their eyes on the same horizon as SDGs—perhaps this is the company's greatest strength.



TECO holds events that support the preservation of indigenous performing arts. In 2020, 1,637 employees participated in the events, drawing a total of 8,565 spectators for five events.

Industry Trend

Motor

TECO is a global company with more than 100 affiliated companies in about 50 countries. They are active in a wide range of fields, from motor manufacturing to heavy electric machinery, home appliances, basic construction, real estate, and food service. In the motor industry, TECO boasts one of the world's largest market shares.



Company Information

Chairman : Sophia Chiu
Establishment : 1956
Business Operations : Motor and home appliances manufacturing and sales, etc.
Total employees : Over 20,000



Action on SDGs



Excellent Products

What a high-powered motor!



Product's Point

TECO is currently the only domestic company manufacturing both electric vehicle motors and drive control units. The electric motor series of products was jointly developed with the Industrial Technology Research Institute (ITRI) in response to the government's policy of promoting logistic digitalization. At the factory in Zhongli, Taiwan, a "Motor Stator Automation Production Center" has been set up to operate D-vision robot arms and connect unmanned vehicles and automatic winding machines with the cloud. This facility is said to represent the cutting edge of smart industrial motor manufacturing in Asia.

According to Ms. Chiu, Chairman of the Board, "T Power" winning the Taiwan Excellence Gold Award is a testament to the hard work of the TECO team, and a great source of personal satisfaction. The "T" in the product's model name "T Power" stands for both TECO and Taiwan.

TECO's pride and joy using patented permanent magnet motor technology

Next-Gen Powertrain System for Electric Vehicle

model number : T Power

This is a one-of-a-kind product from a Taiwanese manufacturer that combines a drive control system with an electric vehicle motor. Its unique compact design makes it more than 15% lighter than other traction motors, and its volume has been reduced by more than 25% despite 1.8 times higher output. It can be used in a variety of passenger cars and commercial vehicles, and is aimed at the electric vehicle market in Asia/Pacific region countries, including India and ASEAN. The electric motor series, which utilizes ultra-efficient IE4 and IE5 motor technologies—including modular design for electric vehicles and special rotor design using new permanent magnet motor technology—embodies TECO's manufacturing philosophy, which has expanded around motor product development.

Taiwan Excellence Gold Award 2021



TECO developed a high-efficiency motors for buses. It has the same durability as conventional diesel vehicles, with a full load range of 260~320km, but has succeeded in eliminating the disadvantages of air pollution and noise.



In compliance with EU environmental protection directives, the production plant is IATF 16949, ISO 9001, ISO 14001, OHSAS 18001 and TOSHMS-certified.

The IP67 dustproof and waterproof design and high endurance to the environment make it suitable for a variety of riding applications.



Profile

TECO ELECTRIC & MACHINERY CO., LTD.

Chairman **Sophia Chiu**

After graduating from the College of Commerce, National Taiwan University, Ms. Chiu subsequently obtained a master's degree in accounting from National Chengchi University, as well as an MBA degree from the University of Michigan. Before joining TECO's management team in 1997, she served as vice president at the Taipei branch of ABN AMRO Bank. She became TECO's chairman in 2015, adopting the corporate vision of "Energy Conservation, CO2 Emission Reduction, Intelligence and Automation" and working to promote Industry 4.0.



In the 1970s, TECO began developing refrigerators and other home appliances in response to the changing lifestyles of Taiwanese people as the economy grew. Since then, TECO has entered into clean energy businesses such as offshore wind power and solar power generation, aiming to achieve "smart manufacturing, smart energy, and smart cities." No matter the era, one thing that is unchanged is that we are always closely connected with people's lives.

It is often said that TECO's corporate culture is similar to that of Japan, and when I went there to visit Mitsubishi Electric Corporation, I observed one common thread: that there are extremely few female employees. In terms of SDGs, "gender equality" is a very difficult issue to tackle in this industry, because the denominator of women in this industry is very small to begin with. Therefore, in recent years, we have been proactively determining how and to what extent to increase the ratio of women, as well as promoting the appointment of women to management positions. Particularly in the production line, the percentage of female

employees has increased to 53%.

From my perspective, improving corporate governance and sustainability is a vital part of our management strategy. In 2020, TECO was incorporated into the DJSI (Dow Jones Sustainability Index) component companies, and has been recognized with "Industry Mover" status in the United States' S&P Global Sustainability Yearbook 2021, which is awarded to the company with the highest score compared to the previous year within the industry. Not only is TECO being recognized for its contributions to corporate sustainability, but also I personally was awarded the Outstanding Corporate Sustainability Professionals Award, the highest individual award of the Taiwan Corporate Sustainability Awards (TCSA).

Receiving this award has helped me to realize that pursuing environmentally friendly business from a managerial perspective can lead to substantial profits, and create a positive development cycle for our company. Going forward, we intend to continue to pursue SDGs in accordance with TECO's vision.

interview Pursuing Sustainability to Create a Positive Corporate Development Cycle

See, Touch, and Experience! at the Taiwan Excellence Pavilion

The Taiwan Excellence Award is given only to world-class, cutting-edge products—and there's no better place to experience these marvels of Taiwanese ingenuity than the Taiwan Excellence Pavilion, located in the Nangang Exhibition Hall in Taipei City. For 2021 (the 29th edition of the award), a total of 72 products from 61 companies are on display, along with numerous other innovative items to enrich our daily lives. The Taiwan Excellence Pavilion is truly a window into a miraculous future brought about by Taiwanese technology!



Live Powerfully Each Day with Medical and Health Accessories!

Taiwanese people are highly health-conscious—many enjoy hiking, running marathons, and bicycling, and both children and adults can be seen exercising with a variety of fitness equipment in parks. This year's Taiwan Excellence Award-winning products include many medical and health-related items such as sterilizers and air purifiers, which are indispensable in the post-COVID age!

1 Gee Hoo's rehabilitation and fitness stepper for the elderly. The seat can be rotated 360 degrees for safe use. **2** SINGTEX's coffee bio jacket. Made from coffee grounds, it reduces oil consumption by 26%. It's waterproof, breathable, and very light. **3** A portable air purifier from Rice Ear. It breaks down everything from the COVID-19 virus to pollen. **4** A handheld sterilizer from CHENG HAO Biotechnology. Disinfectant ingredients produced through seawater electrolysis reach all corners of your home.



Medical & Health

Smart Living

Convenient Products to Enrich Your Daily Life!

From an external switch for a gas stove that prevents you from forgetting to turn off the flame, to a kitchen ventilation fan that controls airflow with AI, to an advanced version of the familiar Taiwanese electric pot—you'll find countless items to make your life safer and more comfortable. The benefits of technological development in Taiwan's semiconductor industry are also being applied to everyday items such as water purifiers and bubble generators effective for cleaning and sterilization.

1 HER SHENG CHANG INTERNATIONAL's Bubbling Plus Surprise Bottle. This product allows carbonated and nitro beverages to be made with ease. **2** This intelligent cooker from TATUNG, known for its electric pots, can be used for various recipes such as steaming, cooking, and stewing.



Mobility



Revolutionary Mobility to Save the Environment!

Taiwan boasts a large number of scooters and electric bikes, and a variety of sharing services run by local governments and private companies. Eco-friendly mobility is also a major focus, with the market expanding year by year. Products that make full use of cutting-edge technology, such as electric car chargers and agricultural drones, are appearing one after the next.

1 Motive Power's scooter, equipped with the Smart Control Engine System (SCES) that calculates the amount of fuel injection in real time. Their collaboration with Hello Kitty is also making waves. **2** ALIGN's agricultural drone can spray pesticides evenly across a given area, improving efficiency by 30 times compared to manual spraying. **3** Delta Electronics' EV Charger can be used regularly to charge electric vehicles normally, and also to power homes and buildings in case of an emergency.



TAIWAN EXCELLENCE PAVILION

📍 3rd Floor, Taipei Nangang Exhibition Center Hall 1, No. 1 Jingmao 2nd Road, Nangang District, Taipei City
☎ +886-2-2785-0605
🕒 10:00 a.m. to 6:00 p.m. / Open daily (*Hours may vary during events.)
📍 Adjacent to Exit 1 of the MRT Taipei Nangang Exhibition Center station.
🌐 <https://www.taiwanexcellence.org/en>

Enjoy Taiwan Excellence Award-winning Products through Video

Looking to learn more about Taiwan Excellence Award-winning products? Be sure to check out the official Taiwan Excellence Facebook page and YouTube channel. You'll find videos showing in detail how products work, how they're used, and much more. For a taste, here are four products recommended by the official site!



FUKUKUMA will be your guide!

tokuyo's Sofa Massage Chair

The industry's first compact sofa-type massage chair. Equipped with air bags, the massage rollers fit the user's body shape. Thanks to the compact design, owners can enjoy a high-quality massage at home even if space is limited. The main body is made of waterproof, antibacterial, and mildew-resistant PVC synthetic leather, which means that it will stay clean. As a bonus, it's also highly resistant to abrasion.



Perfect for singles in compact apartments!



Control it from your smartphone or tablet using the dedicated app. The armrest has a USB charging stand and smartphone storage slot, so you don't have to move every time you want to get your phone.



AQUECARE's Cordless Handheld Sanitizer

Being cordless, it can be used anywhere and can sterilize a variety of spaces including kitchens and bedrooms. The main unit weighs only 1.9kg, making it easy to use with one hand. After recharging the battery, all you need to do is add the special disinfectant solution and pure water, and the device is ready to use, allowing you to sanitize in a short time after cleaning or before going to bed.



Perfect for home or office!



The steam can be sprayed up to 2.5 meters away and is easy to operate, allowing for speedy, efficient sterilization of spaces. It is widely used not only in homes, but also in restaurants, offices, and medical institutions.



ACERA's MASH UP Travel Mug Series

ACERA's mug bottle series is a multiple-time winner of the Taiwan Excellence Award. This series of bottles is based on traditional Taiwanese cultural motifs, such as the vibrant makeup seen in National Opera. The design is stylish with vivid colors, and the body of the bottle features a two-layer hollow structure. The ceramic bottle has excellent heat insulation, perfect for everyday use and keeping you burn-free.



A novel design featuring a stylized image of National Opera. The inner pot is made with a specialized technology called the "far-infrared radiation coating method", which gives beverages a mellow mouthfeel. All the materials used meet food safety standards, so you can use it with peace of mind!



A toothpaste that's gentle on the body and the planet!



O'right's Toothpaste N° Zero

This toothpaste was developed with the concept of food safety in mind, prioritizing the use of healthy and food-grade ingredients. It contains a variety of plant-derived ingredients such as beechwood powder for whitening and acacia wood for plaque removal. Unlike conventional products, it does not put any strain on the teeth, making it safe for adults and children alike.



Wood powder certified by USDA is 100% water soluble and removes plaque and stains without damaging teeth. It is blended with essential oils, so you can enjoy its natural flavor.

Check out Taiwan Excellence through videos and social media!

Taiwan Excellence has a presence on facebook, Twitter, and other major social media, as well as a YouTube channel showcasing award-winning products. Event information and company interviews are updated regularly, so you'll want to come back often!



facebook

Twitter



Buy Taiwan Excellence Award-winning Products on Rakuten!

The "TW Direct" store on Rakuten offers a wide range of made-in-Taiwan items and souvenirs, as well as many Taiwan Excellence Award-winning products. It may be a difficult time to visit Taiwan, but it's the perfect opportunity to take advantage of this convenient shopping!



TW Direct



Part 3 SDGs in Daily Life:

Taiwan-Style

ACTION for SDGs

SDGs: Actions You Can Start Today..... P.74



ITEM for SDGs

Using Environment-friendly ProductsP.76



The SDGs aren't just for nations or corporations—even more important is that each and every one of us should be aware of them and work towards them in whatever way we can. Looking at life in Taiwan, one can see that its people have always been naturally eco-friendly, selling by weight at the market, taking home leftover food from restaurants, and much more. Up-cycling—the process of giving old things a stylish new life—is also a specialty of the Taiwanese people. Rather than seeing the SDGs as a hassle or extra work, they approach them with a smile on their faces and as a natural part of their lives. In this section, we'll look closer at the Taiwanese approach.

RESTAURANT for SDGs

Responsible Cooking, Responsible Dining..... P.78



【Key Terms to Know】

- **Traceability:** Transparency and clarification of the distribution process of a product, from raw materials to disposal.
- **Sharing Economy:** A form of economy in which people share skills, goods, and money, including the sharing cycle itself.
- **Up-cycling:** The re-use of discarded materials and unwanted products by giving them new added value.
- **Farmer's Markets:** Markets where local farmers gather and sell their produce directly to the public.
- **Vegetarian/Vegan Diets:** Vegetarian refers to those who do not eat meat, poultry, or seafood. Vegans eat only plant-based foods, with no eggs, dairy products, honey, or animal-based products whatsoever.

ACTION for SDGs

{ SDGs: Actions You Can Start Today }

SDGs may seem like something far off in the distance, but there are actually a number of actions you can begin taking today. Switching to shareable e-Scooter to get around, choosing sustainable products when you go shopping—if each of us is more conscious of our environment and those around us, we can surely change the future.



Environment-friendly and easy to rent!

Get Around on Rented/ Shared Electric Scooters!



The "WeMo Scooter" allows two people to ride together, and the price is calculated by the number of minutes you ride.

Taiwan is one of the scooter capitals of the world. Recently, rental and sharing of e-scooters has been making waves as a way to reduce air pollution and reduce crowding in parking lots. Most of these scooters are rideshare models, and it is possible to search, reserve, pick up, and pay for your ride using a convenient app. Location and availability of scooters can also be checked via the app's map feature. Using public transportation for long distance travel while renting or sharing electric scooters or bicycles for short distances is a great way to reduce CO₂ emissions.

There are more than 2,000 Gogoro battery exchange stations for electric scooters across Taiwan.

Take a Closer Look at Where and How Food Products Are Made!

In Taiwan, interest in food safety is increasing every year. In some supermarkets, QR codes are attached to vegetables, fruits, and meat. These codes can be scanned with your smartphone to review product history. It's been a huge hit with consumers, who can check not only where the item was produced, but how it was grown or raised—making it easy to choose products that are environmentally friendly and good for the body.



Fund-raising Receipts



Check winning numbers via an app, and contribute to society easily with your receipts.

Did you know that in Taiwan, receipts actually contain lottery tickets? Winning numbers are announced every two months, and the highest prize is 10 million yuan (about \$357,000 USD). Convenience stores and supermarkets have boxes for receipts, which can be donated to charitable organizations, animal welfare groups, and so forth. With recent advancements in digitalization, donations can also be made through cash register screens or via an app.



(above) Products that clearly display place of production and production history are called "Traceable Agriculture Products".
(below) In some cases, not only the production history but also the cooking methods of ingredients such as vegetables and poultry are listed.



(left) This inclusive park also has swings which can be enjoyed by children in wheelchairs.
(right) Fitness bikes in Daan Forest Park. Register on an app and compete with your friends!

Human and Nature-Friendly Parks

Taiwanese parks feature unique pieces of playground equipment. In Taipei's Daan Forest Park, you'll find fitness bikes near the pond. Pedaling on these circulates the pond water, allowing visitors to get a workout while also contributing to environmental conservation. All-inclusive, barrier-free parks designed to be enjoyed and accessible to everyone are also on the rise.

Taiwan has many markets selling fresh food and daily necessities—the kitchens of average citizens, so to speak. At these markets, products are typically sold by weight. As customers buy only what they need for the day, no food goes to waste. The freshness of the products is also a major draw. Recently, weekend-only farmers' markets are held, offering a variety of organic and naturally grown fruits and vegetables.



Cut fruit packaged in small bags.



Purchasing by Weight at Markets

The markets bustle until early afternoon, and customers can enjoy chatting with shopkeepers.

Taiwan's take-away culture is a custom the whole foodie world could learn from.



Take Home What You Can't Finish

At Taiwanese restaurants, it's common to take home whatever you can't finish eating—a practice known as da bao. In addition to take-away containers available at the restaurants, some people carry plastic containers with them. Soups and hot pot dishes can be taken home as well. It's an environment-friendly custom that reduces food waste.

Street-side Tea Service

In Taiwan, there was a custom where kettles filled with tea and water were placed along streets to be offered to passers-by. Currently, supermarkets and public facilities have drinking water stands, and temples and shrines also offer herbal teas. Apps allow users to search for these places, promoting the reduction of bottled beverage purchases.



(above) Goji berry and jujube tea, offered free of charge.
(left) The "Water Refill Map" app provides information on 7,000 locations, and also shows how much the user has contributed to carbon reduction.

Quench your thirst on a stroll~♪



ITEM for SDGs

{ Using Environment-friendly Products }

In Taiwan, the process of “upcycling,” which adds new value to waste products, has been gaining traction as of late. With a group of young designers at the core of the effort, eco-friendly and fashionable products are continually being made. Many products that have won the Taiwan Excellence Award are also eco-friendly, so keep an eye out.



A Reusable Shopping Bag

Made from recycled school athletic wear. Comes with a handy pocket for mobile phones!



C Outdoor Cup

Outdoor-use cup made from discarded bamboo. Comes in many colors and visual designs.



A Recycled Pen Case

Chic design with track suit-like double line. Can also be used to store glasses or chopsticks.



B Recycled Glass Cup

Developed in collaboration with the daily necessities brand HMM. Received a Taiwan design award in 2019.

Purchase Taiwanese Gifts Online!

Taiwanese products can also be purchased from the website. Check out e-commerce sites such as *Pinkoi* and online shops such as *Design Pin*.

Pinkoi⇒<https://en.pinkoi.com/>

Design Pin⇒<https://www.designpin.com.tw/>



H Additive-Free Herbal Shampoo

5α Juniper is a popular scalp care shampoo that has received international recognition, including the Monde Selection award. It can also be purchased at Pinkoi.



F Plant Fiber Cutlery

Made from plant scraps and other biodegradable materials. Disposable yet sturdy.

Taiwan Excellence Award-Winning Eco-Products

The technology and innovation behind Taiwanese brands have caught the attention of the world. Keep an eye out for these cutting-edge items!

G Recycled Apparel

Oversized vest with a cross pattern on the back. Fits a variety of body sizes while maintaining good mobility.



E Biodegradable Tape

Made from compostable natural material. Also worthy of note is that the adhesive leaves no residue.



D Recycled Stone Paper Notebook

Notebook made of sturdy and well-textured paper. The elegant design also gets high marks.



A CULTU-RE EXPERIMENT

CULTU-RE EXPERIMENT takes discarded agricultural-use cardboard, canvas used for advertisements, and old school uniforms and recreates them into useful everyday items such as notebooks and containers. Using materials from everyday life in Taiwan, they are showcasing Taiwanese culture in new and innovative ways.

URL <https://www.cultu-re.com/>

B SPRING POOL GLASS

Located in Hsinchu in Northwest Taiwan, *Spring Pool Glass Industrial* has operated the largest glass recycling plant in the country for over half century. In recent years, they have collaborated with popular designers to launch W Glass Project, which has drawn considerable attention by producing one stylish item after another.

URL <http://springpoolglass.com/>

C YUANTAI

Zhushan in the central Taiwanese county of Nantou is renowned for their bamboo production. It is here that *YUANTAI* has operated their workshop for over 30 years. Under the supervision of the second-generation company president, they are currently developing highly practical, attractively designed products including toothbrushes and straws.

URL <https://www.bamboobrush.com.tw/>

D imSTONE

Stone paper is made from stone (CaCO₃), and its eco-friendly production method requires no wood or water. *imSTONE*, a brand created by Taiwan Lung Meng Advanced Composite Materials Co., Ltd., produces stone paper cards and notebooks known for their water resistance, durability, and distinctive designs.

URL <https://www.imstone.com.tw/>

E AVATACK

As Taiwan's most prominent adhesive tape maker, *AVATACK* produces many different kinds of adhesive tape, but the one that has recently garnered much attention is their biodegradable tape. Made from 100% natural and non-toxic materials, this biodegradable tape clears all international standards, with even its production cycle being eco-friendly.

URL <https://www.avatackco.com.tw/en/>

F 100%ZHI

Founded in 2017, Ju Tian Cleantech Co., Ltd. is a tableware company that uses plant fiber material to create their products. *100%ZHI* is the name of their tableware brand that develops straws, plates, cutlery, and other items using all-natural fiber materials from sources such as sugarcane, coffee, bamboo, rice, and tea.

URL https://www.plastic-free.com.tw/index_en.html

G SINGTEX

Singtex is an apparel company known for using eco-friendly materials and production methods. The products made from their proprietary stretchable material S. LEISURE are renowned for their fast drying, stretchability, and breathability, making them ideal for sports and leisure.

URL <http://www.singtex.com/en-global/home>

H AROMASE

AROMASE is a brand carried by a long-standing scalp care company, MacroHI Co., Ltd., that boasts over 60 years of collaborative research and development with top dermatologists. Their non-silicon shampoo, which also contains no artificial colors or preservatives, has become a worldwide hit.

URL <https://www.aromase.com.tw/>

RESTAURANT for SDGs

{ Responsible Cooking, Responsible Dining }

These days, more and more restaurants in Taiwan are designed to be not only human-friendly, but good for the environment and animals as well. From recycling water to using natural detergent, many of the ideas employed can also be applied at home. See how cooking and dining can be even more enjoyable when approached with a responsible attitude.



1 The owner, Sam, is second from the right. To his left is Luca, a star bartender from Italy.
2 Their signature cocktail is 400 NTD for a glass. The top right is ADINA, a rum-based cocktail with papaya and yuzu. 3 The restaurant is filled with greenery.
4 Thick noodles with spicy tofu, topped with simmered pork belly (320 NTD). 5 Fried pork belly with basil sauce (280 NTD).



Reply Taipei

The bar's specialties include cocktails inspired by indigenous peoples and regional culture, as well as fusion dishes featuring traditional Taiwanese cuisine with a Western twist. With an natural atmosphere lush with verdant green, it's a perfect place to relax on your own or with a friend.

📍 No. 10-2, Lane 101, Section 4, Zhongxiao East Road, Da'an District, Taipei City
☎ 02-2778-8530
🕒 Weekdays 6:30 p.m. to 1:00 a.m., Friday and Saturday 7:00 p.m. to 1:30 a.m. (last order)
Closed: Mondays
🌐 <https://www.facebook.com/replytaipei/>

Taiwan's First SDGs-Themed Bar

Opened by Sam, a bartender who studied marine environmental engineering at university, in December 2020, this establishment uses carefully chosen natural materials to provide a comfortable ambiance and body-friendly food to customers. With a motto of "Reduce, Reuse, Recycle", the bar pursues multiple environmental conservation measures—such as using collected rainwater for its lavatory water, making dish detergent from discarded citrus peels, and strictly separating garbage into 18 separate categories. Experience Taiwan's commitment to SDGs at this innovative new eatery.



Earth-friendly, animal-friendly cuisine is our specialty.



1 This friendly husband-and-wife team owns the restaurant. Its name is a portmanteau of "Herb" and "Urban."
2 Salad with beet and sesame leaves (260 NTD), with a sangria and other treats. 3 Shredded potatoes fried into flat rounds (330 NTD). What appears to be salmon is actually made from carrots. 4 These black noodles resembling squid ink pasta are made from bamboo charcoal (300 NTD).
5 Wine boxes and hemp bags adorn the ceiling of the restaurant.



Healthy, Innovative Dining Offering Superlative Taste and Ambiance

Hidden away in an alley in Taipei's bustling Da'an District, this eatery—opened seven years ago by Marco, an American, and his wife Queenie Wu—has earned rave reviews for its European-inspired dishes. In Taiwan, Buddhist vegetarian cuisine has become popular among vegetarians and non-vegetarians alike, but Herban Kitchen & Bar distinguishes themselves from the pack by focusing on the concept of environmental preservation and animal protection. Using no meat or fish—but employing certain ingredients not found in Taiwanese Buddhist cuisine like garlic, green onion, eggs, and dairy products—the restaurant is creating a rich and diverse world of cuisine. Hugely popular among the younger, health-conscious crowd, it's setting new trends in Taiwan's foodie scene.

Herban Kitchen & Bar

The menu offers incredible variety: from hamburgers and sandwiches to pasta, risotto, desserts, and drinks. Certified by the Taiwanese government for enacting measures against food loss, the restaurant allows for unfinished dishes to be bagged and taken home. It's also an LGBT-friendly environment.

📍 No. 27, Lane 101, Section 4, Zhongxiao E Rd, Da'an District, Taipei City
☎ 02-8773-7033
🕒 12:00 p.m. to 9:20 p.m., Weekends 10:30 a.m. to 9:00 p.m. (last order)
Open daily
🌐 <http://www.herban.tw/>

List of Companies



TAIWAN EXCELLENCE

English Company Name	Chinese Company Name	Business Operations	Introductory Page	QR
APEX MEDICAL CORP.	雅博股份有限公司	Development, manufacture, and sales of medical device	60	
CHENG SHIN RUBBER IND. CO., LTD.	正新橡膠工業股份有限公司	Tires & Tubes manufacturing and sales	52	
DELTA ELECTRONICS, INC.	台達電子工業股份有限公司	Power and thermal management solutions provider	44	
E INK HOLDINGS INC.	元太科技工業股份有限公司	ePaper research and development, manufacturing and sales	36	
GIGA-BYTE TECHNOLOGY CO., LTD.	技嘉科技股份有限公司	Computer and computer peripheral manufacturing and sales	32	

English Company Name	Chinese Company Name	Business Operations	Introductory Page	QR
MAKALOT INDUSTRIAL CO., LTD.	聚陽實業股份有限公司	Apparel manufacturing and sales	56	
MERIDA INDUSTRY CO., LTD.	美利達工業股份有限公司	Bicycle and electric bicycle manufacturing and sales	26	
MERITS HEALTH PRODUCTS CO., LTD.	國睦工業股份有限公司	Manufacture and sales of electric / manual wheelchairs and stairlifts	48	
TAIWAN GLASS IND. CORP.	台灣玻璃工業股份有限公司	Manufacturing and sales of glass products	40	
TECO ELECTRIC & MACHINERY CO., LTD.	東元電機股份有限公司	Motor and home appliances manufacturing and sales, etc.	64	



Amazing TAIWAN

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