



2023

Annual Report



Occupational Safety and
Health Administration,
Ministry of Labor,
Taiwan, R.O.C.

PERFORMANCE

58.8%
Workers' healthcare
coverage rate

95,130 cases
Individualized case management
services for injured workers
and their families

165,611 cases
Supervision and inspections of
occupational safety and health

63,122 cases
Supervision and
inspections of
working conditions

103,241 pieces
Inspections of dangerous
machinery and equipment

6,945 cases
Registration of Type Certification
of machinery and equipment

1,080 events
Awareness-raising for
working conditions

285,428 cases
Education and training
for occupational safety
and health

1,080 events
Awareness-raising for
occupational safety
and health

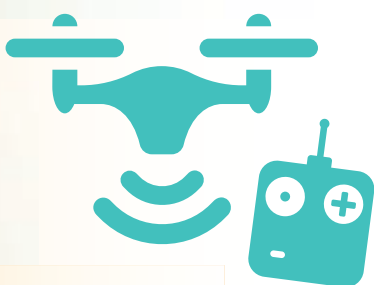
Decline in the
rate of payments
for occupational
accidents per
thousand workers
compared to 2022

2.222

2023

Occupational Safety and Health Administration,
Ministry of Labor, Taiwan, R.O.C.

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Preface by the Director-General

In 2015, the United Nations announced its “Sustainable Development Goals” (SDGs) for 2030, guiding the world towards efforts to achieve 17 targets including the elimination of poverty and mitigation of climate change effects. In order to ensure stable progress towards a sustainable future, Taiwan drew on the spirit of the UN’s SDGs and crafted 18 core SDGs of its own. Every goal requires “worker participation” to be successfully implemented, from which one can see that “human capital” and “a healthy workforce” are critical to sustainable development as well as constituting precious resources for enhancing competitiveness for enterprises and the nation. En route towards 2030, Taiwan has been proactively promoting the green energy industry, and at the same time, a global perspective has been necessary to make progress in occupational safety and health (OSH) issues. In this era filled with challenges and opportunities, in 2023, the Occupational Safety and Health Administration (OSHA) performed brilliantly in areas defined by the key words “green energy” and “sustainability” and used innovative methods to protect the safety and health of workers.

First, in terms of the enhancement of OSH in the green energy industry, OSHA organized the “2023 International Seminar on Occupational Safety and Health in the Green Energy Industry,” inviting experts from home and abroad to share trends and best practices for OSH in this sector. In addition, we drew on the UK supervisory system for OSH at offshore wind farms and organized teams to strengthen supervisory and inspection capabilities while also issuing the “Reference Handbook for Supervision and Inspection of Wind Power Enterprises” and implementing a supervisory and inspection program for OSH operations of at-sea offshore wind farms. OSHA also held the “2023 International Conference on Occupational Hygiene and Occupational Medicine”, in cooperation with Occupational Hygiene and Occupational Medicine professional associations, to promote clean, healthy, and safe workplaces.

OSHA has also been very active in terms of sustainability in face of global smart technology trends. We have paid particular attention to trends in the development of industrial robots and smart automation. Taking an innovative path, in 2023, we worked with the Southern Taiwan Science Park Bureau to establish the country's first OSH multi-sensory extended reality venue to promote more diversified learning models. Meanwhile, we also collaborated with national skills competitions and OSH facility experiential activities and used experiential instruction methods including hands-on operations, virtual reality, and mixed reality, to deepen workers' awareness of hazards and imbue them with proper safety knowledge and attitudes. In 2023, OSHA also held the "Smart Production Safety Forum" and the "Value of Worker towards Sustainable ESG Development Forum" at which we exchanged information with various sectors of society on smart production safety best practices and experiences and strengthened the importance of workplace safety in order to assist enterprises operate sustainably. OSHA further adopted the "Taiwan Healthy Workforce Sustainability Development Plan" to provide a basis for action and a vision for the future. This Plan was acknowledged by the "2023 National Sustainability Award," highlighting its status as an important milestone in the promotion of OSH policies in Taiwan.

Furthermore, in order to stay aligning with international OSH developments and share knowledge and experiences, we attended the "2023 World Congress on Safety and Health at Work," where we exchanged information on OSH practices, experiences, and methods with other countries from around the globe. Against the backdrop of the rise of new economic models worldwide and the rapid development of the "gig economy," OSHA was invited to participate in the symposium at the Congress on "Untangling the Gig Economy Web: Human Centric Strategies for an Informal Workforce." There we shared Taiwan's measures for protection of personnel at delivery platforms. Our efforts demonstrated Taiwan's outstanding achievements in the continual pursuit of progress.

It has been ten years since the founding of OSHA, and we have overcome crises, faced challenges, and said goodbye to the COVID-19 pandemic. The rate of payments under labor insurance for occupational accidents per thousand workers fell from 3.467 in 2014 to 2.222 in 2023, showing a steady decline. In the future, we will continue to interact with the international community and bring together industry, academia, and government to study refinements that will enable Taiwan to elevate towards the ranks of the most advanced countries in terms of OSH performances. Taiwan OSHA will create ever-more sustainable, healthy, and safe workplaces while raising our national competitiveness. Here I would like to thank all of those who have supported us and we look forward to working together to make progress towards a better future for OSH in Taiwan.

Director General



OSHA, MOL, Republic of China (Taiwan)

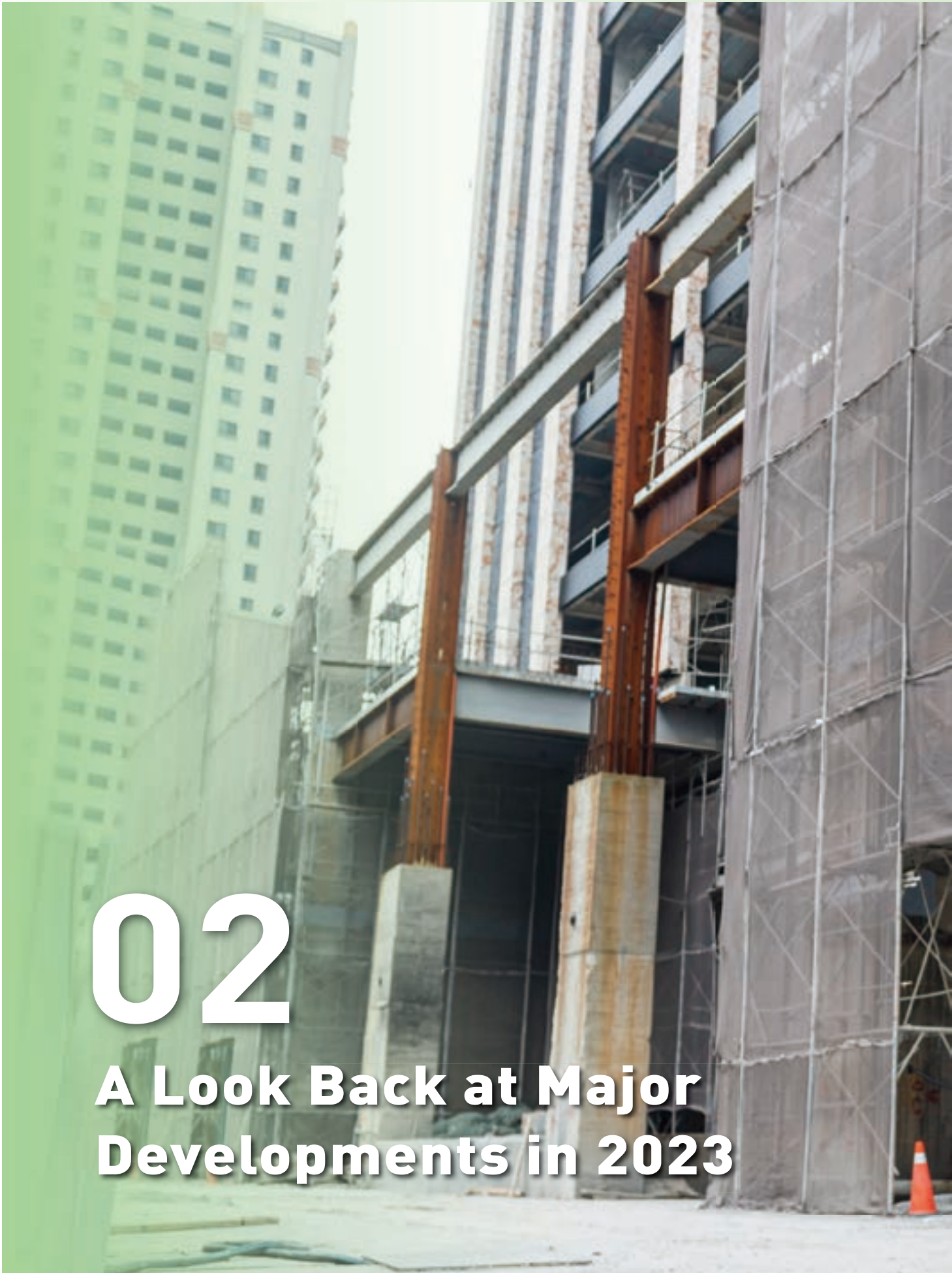
01

Vision and Strategies





02

**A Look Back at Major
Developments in 2023**



Collaboratively Reducing Accidents, Moving Toward Safety Together: The Summit on OSH Management of the Construction Industry

In all countries around the world, the promotion of workplace safety in the construction industry is always a major challenge. In recent years, Taiwan has experienced rapid economic growth, therefore the government and private sector have launched a number of major construction projects, which are at relatively high risk for occupational accidents. To strengthen workplace safety in this industry and promote the adoption of accident-reduction technology, OSHA has planned for the government and private sector to work together to reduce accidents in the construction activities. On May 8, 2023, OSHA held the “Summit on OSH Management of the Construction Industry,” inviting 25 investment or construction enterprises, 12 construction industry associations, and nine inspection institutions to attend. The purpose was not only to announce the policy directions of the Ministry of Labor, but also to collectively sign an accident reduction declaration promising initiative to “fulfill safety responsibilities, provide sufficient OSH resources, strengthen public-private cooperation to reduce accidents, and implement life-cycle OSH in construction sector, thereby enhancing workplace safety.



© Minister of Labor Hsu Ming-Chun and representatives of construction industry associations signed a declaration promising to take steps to reduce workplace accidents.



© OSHA Director General Tzou Tzu-Lien attended a inauguration ceremony to mark the accreditation of National Cheng Kung University Hospital as both a "Specialized Hospital for the Diagnosis and Treatment of Occupational Injuries and Diseases" and a "Professional Occupational Rehabilitation Institution for Workers Suffering from Occupational Accidents."

Continuing to Construct and Expand an Institutional Services Network for Diagnosis and Treatment of Occupational Diseases and Injuries, and Occupational Rehabilitation

To strengthen healthcare services for workers who have suffered occupational accidents (including diseases) and protect the health of labor, OSHA has proactively promoted a system for accreditation of specialized hospitals for diagnosis and treatment of occupational diseases and injuries. On December 15, 2022 we announced the successful accreditation of 15 medical institutions (including National Taiwan University Hospital) as the "Specialized Hospitals for the Diagnosis and Treatment of Occupational Injuries and Diseases" (SHDTOIDs) with the accreditation period lasting from January 1, 2023 to December 31, 2025. However, after assessing demand for services from workers who have suffered occupational diseases or injuries as well as the discovery of potential victims of occupational diseases, we determined that there was a need to increase the number of accredited SHDTOIDs in order to continue to build-up service capabilities. After a meeting and review on December 7, 2023, it was decided that as of January 1, 2024 two additional hospitals (Tungs' Taichung Metro-Harbor Hospital and Kaohsiung Chang Gung Memorial Hospital) were accredited as SHDTOIDs, making-up for a total of 17 accredited specialized hospitals for providing services to workers who have suffered occupational accidents, thereby offering high-quality and accessible medical services to these workers effected.

OSHA has also continued to proactively promote a system of accreditation for "Professional Occupational Rehabilitation Institutions for Workers Suffering from Occupational Accidents." By the end of 2023 there were 31 accredited institutions providing rehabilitation services to such workers (and the number was increased to 36 as of January 1, 2024). Moreover, to enhance access to services for workers who have suffered occupational accidents (including diseases), we have also created a nationwide network of training institutions to strengthen occupational rehabilitation that covers even offshore islands including Penghu and Kinmen. In total there will be over 50 service centers to provide conveniently accessible return-to-work services for such workers.

Guiding the Enhancement of Occupational Health for a Sustainable Future for Labor

The promotion of sustainable development is an important national policy in Taiwan, and the government has set out 18 Sustainable Development Goals (Taiwan SDGs). Each of these goals requires “worker participation” to achieve, with “human capital” and “a healthy workforce” being critical to sustainable development as well as precious assets for upgrading corporate competitiveness. To ensure that corporations place even greater emphasis on workplace health and safety as part of their ESG performance and guide enterprises and their supply chains to embrace the value of a sustainably healthy labor force. Since 2022 OSHA has been implementing the “Mid-Term and Long-Term Program of Sustainable Development Program to Promote a Healthy Workforce in Workplaces.” Under this program we have encouraged enterprises to use the “Recommended Guidelines for GRI 403 Workplace Sustainable Health and Safety SDGs Disclosure Practices” to guide enterprises to prevail basic legal requirements in their OSH performance. In addition, in 2023 we received an acknowledgment in the “Government Agencies” category of the “National Sustainable Development Awards” for our “Taiwan Healthy Workforce Sustainability Development Plan.” In the future OSHA will expand diverse partnership cooperation and incentive mechanisms for listed enterprises and, thanks to the requirement by the Financial Supervisory Commission that listed companies disclose their ESG performance with corporate sustainability reports, will mainstream the disclosure and implementation of OSH-oriented ESG goals. This will also drive corporate supply chains to collectively take concrete OSH steps and use leading performance indicators to demonstrate their commitment to the value of a sustainably healthy workforce.



© A group photo taken at the presentation of a “2023 National Sustainable Development Award” to OSHA.

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Successes in Policy Implementation



Safety through Inspections and Enforcement

Optimization of Effectiveness by Risk Banding Management to Reduce Occupational Accidents

Given the limited capacity of inspectors, OSHA has adopted a “risk banding management strategy” that classifies enterprises by their size and degree of risk. Through policy tools including awareness-raising, guidance, inspections, assistance, interagency governance, partnerships, and promotion of improved workplace culture, to enhance the level of OSH in enterprises, as well as the effectiveness of labor supervision and inspections.

Implementation situation

Risk banding management measures adopted by OSHA include the following:

- **For enterprises with excellent OSH performance:** Instead of inspections, OSHA gives priority to conducting visits and supervision for businesses that practice

self-regulatory management, and holds seminars, hands-on learning, and knowledge sharing activities to assist organizations with outstanding OSH performance track-records to move toward becoming the “benchmark enterprises of excellence” that act as role models for others.

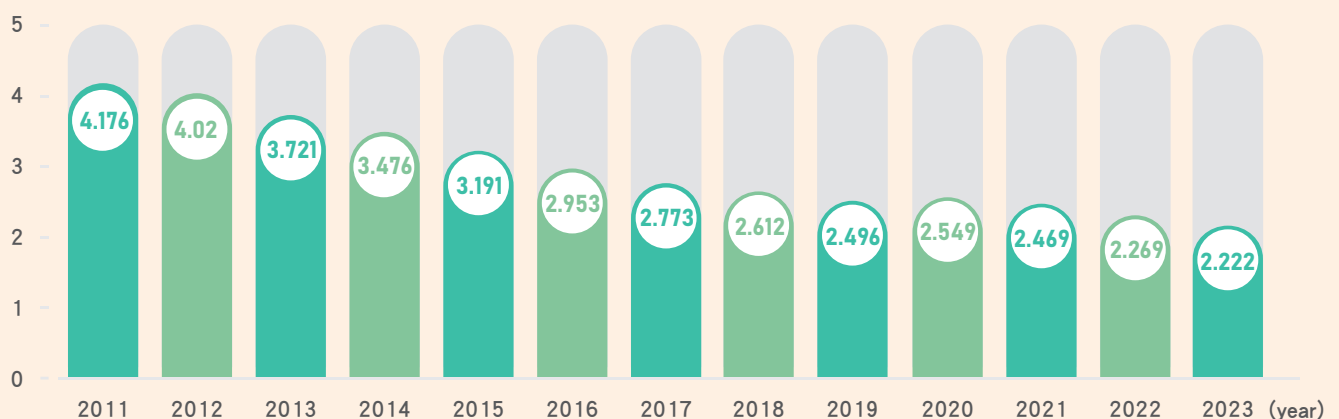


- **For industries with high risk of occupational accidents:** For enterprises with a high frequency of noncompliance, high accident risks, and a greater number of occupational accidents, OSHA gives priority to inspections and offers assistance for improvement to ensure basic compliance with regulations.
- **For small- and medium-sized enterprises (SMEs):** OSHA employs measures to assist SMEs with education and training, site visits, guidance, consultations, and hands-on learning. Also, through services and resources like the OSH FAMILIES, sectoral promotion associations, and programs of Big Factories Leading Small Factories, OSHA promotes upgrading of the level of OSH management at SMEs in various ways.

Achievements in 2023

During the ten years from 2014 through 2023, the “rate of payments under Labor Insurance for occupational accidents per 1000 workers” in Taiwan showed a steady downward trend. In 2023, thanks to the efforts of the central and local governments and all stakeholders, the rate of such payments per 1000 workers fell to 2.222, a decline of 2.1% from the 2021 figure of 2.269. At the same time, in 2023 labor inspection institutions conducted OSH supervision and inspections a total of 165,611 trips, held 1,080 OSH awareness-raising events, and provided on-site guidance in 3,628 cases. OSHA went all-out to supervise and assist enterprises in implementing workplace OSH management.

(Rate per 1,000 workers)



© The rate of payments under Labor Insurance for occupational accidents per 1000 workers over the years.

Guiding High-Risk Enterprises to Implement Process Safety Management

In recent years there have been several serious safety incidents in Taiwan's manufacturing sector. These accidents all share causative factors including insufficient information on process safety, failing to implement change management, pre-start-up inspections, carrying out SOPs, evaluating process safety, and mechanical integrity.

Implementation situation

- OSHA uses on-site guidance to assist enterprises to improve process safety evaluations and measures in workplaces, and organizes awareness-raising events, job-site demonstrations, education and training.
- We also continually update the process safety database in order

to assist enterprises to stay up-to-date on process safety information. Also the information is published on the process safety management (PSM) website.

Achievements in 2023

- OSHA held 26 sessions of on-site process safety guidance and collective guidance for enterprises.
- We held 14 sessions of awareness-raising, hands-on demonstrations, and education and training.
- OSHA supplemented its database on incompatible chemicals for four types of commonly used materials including carbon steel and put the information on the PSM website so that enterprises can access it quickly for reference.



© Deputy Minister of Labor Wang An-Pang, accompanied by Kaohsiung Deputy Mayor Lo Ta-Sheng, inspected the Linyuan factory of the Oriental Union Chemical Corporation.

The Activities of OSH FAMILIES, Big Factories Leading Small Factories, and Proactive Guidance to Improve SMEs' Working Environments

SMEs typically have less funds, resources, and expert personnel than large enterprises, and are generally lacking in knowledge about OSH risks and prevention measures, resulting in a higher incidence of occupational accidents.

Implementation situation

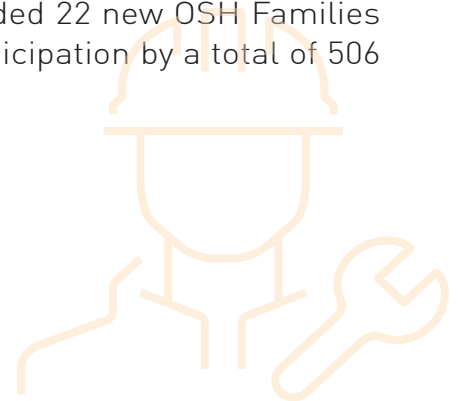
In order to assist SMEs to improve their working environments, in 2023 OSHA worked with local governments to continue the "Ministry of Labor Subsidizing Plan for Local Governments Involving in Promotion of Guiding and Improving Working Environments for SMEs." Promotional tasks included the following:

- **Organizing specialist teams for on-site guidance:** OSHA assisted various local governments to hire 35 OSH specialists and recruit 430 OSH personnel working in the local business community, or retirees from public and private sectors to form teams to provide "onsite guidance." Also, the Northern, Central, and Southern OSH Centers proactively implemented on-site guidance for working environment improvement at SMEs, firms newly covered by the Occupational Safety and Health Act, and enterprises with high risk of occupational accidents.

- **Experience sharing by enterprises with outstanding OSH performance:** OSHA has organized 64 "OSH FAMILIES" which shared information on a collective organizational platform to build a system of self-management of OSH at factories through mutual support and learning.
- **OSH guidance:** OSHA sent out pamphlets to SMEs on prevention of OSH hazards, as well as OSH awareness-raising slogans and posters, and took the initiative to issue monthly e-newsletters. In addition, OSHA has set up a Facebook page for OSH at SMEs to provide immediate OSH news, videos, case studies, and information about activities.

Achievements in 2023

- Guidance teams provided "on-site guidance" for over 17,800 visits and held 333 awareness-raising activities.
- OSHA's three regional OSH Centers provided on-site OSH guidance to SMEs for over 13,314 visits as well as held 15 conferences, 12 hands-on demonstration events, and 144 seminars for high-ranking management personnel.
- We founded 22 new OSH Families with participation by a total of 506 SMEs.





© OSHA Director-General Tzou Tzu-Lien and Li Jin-Chin, deputy head of the New Taipei City Labor Standards Inspection Office, led a team of inspectors to conduct a labor inspection at a construction site in New Taipei City.

Raising Safety in the Construction Sector to Match International Standards

The construction sector has a relatively higher risk of severe occupational accidents. In order to continue to reduce occupational accidents in the construction industry, OSHA has adopted a strategy of regular inspections and heavy punishments, raised the amounts of fines, and strongly required that construction enterprises comply with the law. We have also continually reassessed OSH implementation performance and formulated approaches for improvement. OSHA uses awareness-raising, inspections, and guidance to ensure the safety of construction workers and prevent the occurrence of occupational accidents.

Implementation situation

- OSHA set up the Implementation Program for supervision, inspection, awareness-raising, and guid-

ance in the construction industry, opting for a strategy of regular inspections and heavy punishments and requiring relevant stakeholders to improve the quality of supervision and inspections to ensure that enterprises comply with laws and regulations.

- We also implemented the Program for Synchronized Labor Inspections of the Construction Industry” by labor inspection institutions nationwide. Each month OSHA Director-General Tzou Tzu-Lien meets with the heads or management teams of labor inspection institutions from around Taiwan and executing a synchronized unannounced on-the-spot inspections at construction sites in the northern, central, and southern regions, respectively.

Achievements in 2023

- In 2023 there were a total of 65,661 inspections of OSH in the construction industry, with fines totaling NT\$420 million.
- In 2023 there was a total of 151 fatality in major occupational accidents, a slight decline of five compared to 2022. The rate of accidents remained high in the construction industry, and after assessment of the situation, OSHA declared that 2024 is the Year for Combating against Falling Accidents in Construction Industry. We moreover adopted an implementation plan to reduce accidents and continued to strengthen accident prevention.

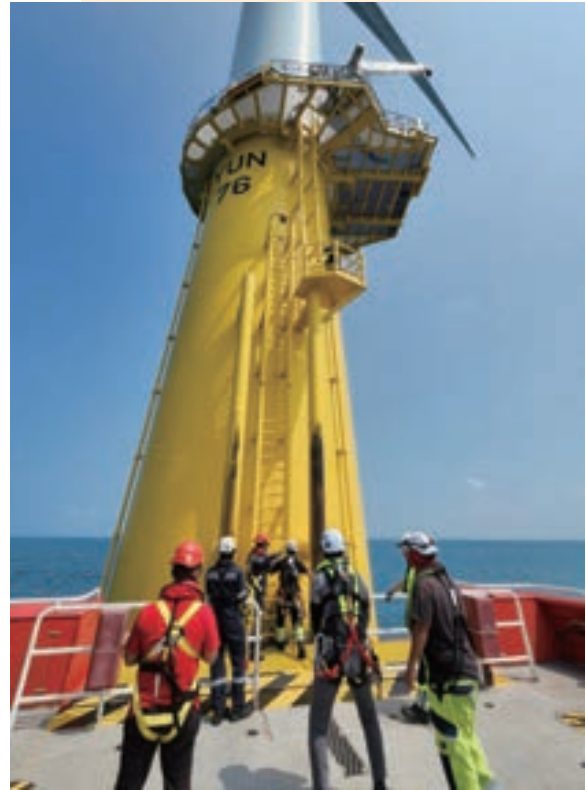
New Methods for Safety Management in the Emerging Offshore Wind Power Industry

In recent years, “wind power generation” has become an emerging industry in Taiwan, and total capacity is planned to reach 5.7 GW by 2025. However, because activities involved in offshore wind power like construction, operations, and maintenance are conducted in unique environments (including coastal areas, at sea, and underwater), risks like falling from a height, hits by falling objects, electric shocks, being struck, and drowning can occur at any time.

Implementation situation

The design and construction of offshore wind power systems must take into account intrinsic safety and risk management at the source. In the design and construction planning phases, it is necessary to identify and assess hazards in the working environment and operations so as to adopt control measures to avoid accidents.

- OSHA has drawn on the UK supervisory system for OSH at offshore wind farms and organized a team to strengthen supervisory and inspection capabilities. We have also issued the “Reference Handbook for Supervisions and Inspection of Wind Power Projects” and implemented a supervisory and inspection program for OSH operations of at-sea offshore wind farms.
- OSHA also arranges for members of the supervisory and inspection team to obtain relevant profes-



© Inspectors go to sea to implement OSH supervision and inspection of at-sea operations.

sional training qualification from the Global Wind Organization (GWO).

Achievements in 2023

- We arranged for seven members of the supervisory and inspection team to complete two basic safety courses offered by the GWO: elevated operations and at-sea rescue.
- OSHA dispatched teams by boats to conduct OSH supervision and inspection of at-sea operations at the marine engineering projects for the Formosa 2 Offshore Wind Farm, the Greater Changhua Offshore Wind Farms, the Changfang & Xidao Offshore Wind Farms, and OWF Yunlin.



© Powered forklifts are one of the kinds of machinery, equipment, and tools that the central competent authority has designated as requiring registration.

The First Step to Operational Safety: Strengthening Intrinsic Safety of Machinery

To safeguard workers' workplace safety, the most important task is requiring intrinsic safety for machinery and equipment. Since 2015, based on Article 7 of the "Occupational Safety and Health Act" and Article 12 of the "Enforcement Rules of the Occupational Safety and Health Act," OSHA has promoted a "Registration System of Safety Information" for source management of 10 designated types of machinery, equipment, and tools.

Implementation situation

- In 2019 OSHA announced two new categories of designated machinery, equipment, or tools to be part of the registration scope: non-numerically controlled lathes and milling/boring machines. In addition, numerically controlled lathes and milling/boring machines, machining centers, and transfer

machines were later added to the registration system in 2023.

- Based on Article 8 of the OSH Act, OSHA has been promoting a "Type Certification System" since July of 2018 for designated machinery, equipment, and tools. Domestically manufactured or imported voltage reducing devices for AC arc welding equipment cannot be shipped by manufacturers or imported by importers into workplaces in cases these devices have not passed type certification conducted by a certification body and do not have attached certification marks.

Achievements in 2023

In 2023, OSHA reviewed 6,945 filings for registration from 897 business entities, and conducted examinations and sample testing of 817 pieces of designated machinery and equipment from 265 entities.

Safety Partnerships: Creating Healthy Working Environments Together

In order to promote labor safety and industrial safety, OSHA has promoted a program of safety partnerships. Using a model of positive exchanges and interactions, we have strengthened the operational mechanism of OSH management systems (plan-do-check-act) at enterprises to ensure that they implement improvement of OSH management and facilities and build a culture of safety with participation by all employees.

Implementation situation

- OSHA and the Taiwan Cement Manufacturers' Association jointly held a hands-on demonstration event for occupational safety awareness-raising, health promotion, and accident prevention in the cement industry as part of activities for "National Occupational Safety and Health Week." The event featured on-site demonstrations and sharing of experiences between safety partners in the cement industry in order to work within the industry to create safe and healthy working environments.

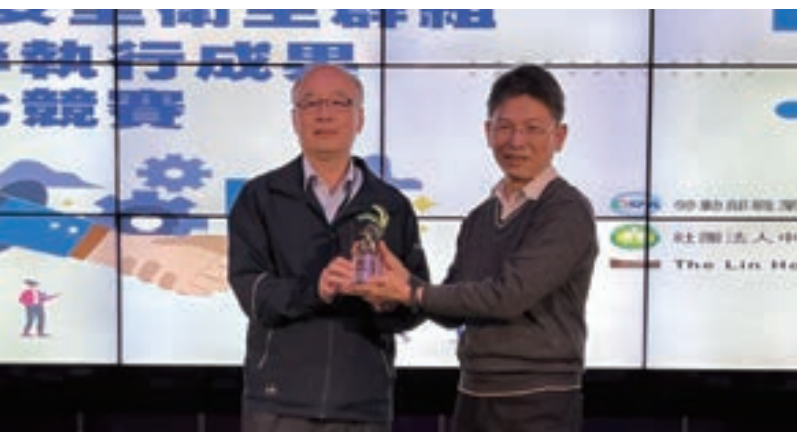


© OSHA Deputy Director-General Ju Jin-Long was present for safety demonstrations by enterprises from the cement manufacturing industry and its contractors.

- OSHA also held the "2023 Competition of Achievements of Safety and Health Cooperative Groups and Partners." We invited OSH experts and scholars to evaluate and compare the accident-reduction performance, accident-prevention innovativeness, and briefings by OSH groups and partners and gain an in-depth understanding of OSH promotion at these organizations. Through the two-day event, these groups and partners were able to learn from each other.

Achievements in 2023

- At present OSHA is closely working with safety partners including three construction projects, four large enterprises, and six industrial associations. In the future we will continue to reassess progress in order to upgrade the substantive effectiveness of safety partnerships.
- At the Competition, participants included nine safety partners cooperating with OSHA, 12 OSH promotional associations, and 13 OSH Families whose founding was guided by local governments. There was a final event pitting the number one and two finishers in each category to select overall champions.



© OSHA Chief Secretary Wan Jung-Fu is shown here in a group photo with members of the management headquarters of Formosa Plastics Group, a champion in the 2023 OSH groups and partners competition.



Weaving an Omnipresent Safety Nets to Ensure Workplace Health

In recent years Taiwan's workforce has been faced with low birth rates and aging population. Moreover, it was seriously impacted by the COVID-19 pandemic, leading to a decline in the labor force. Faced with a shortage of skilled worker and labor, it is vitally important to ensure the healthy workforce. Enterprise operations are based on the health and safety of workers, which provides the foundation for enterprises' sustainable development.

Given the environmental situation and international trends, OSHA has not only continued to use multiple strategies—including regulatory amendments, awareness-raising, guidance, subsidies, supervision, and inspections—to assist employers to improve workplace environments, prevent work-related illnesses and diseases, and protect the physical and mental health of labor. In 2023 we continued to accommodate the mainstream international trend of sustainable development. We promoted multiple programs including the "Sustainable Development Program to Promote a Healthy Workforce in Workplaces" and the "Roadmap toward Occupational Cancer Prevention," and through integration of resources from the government and private professional organizations (including academia and industries), developed tools and guidelines collectively. OSHA continues to use multiple strategies to enhance the overall level of OSH in Taiwan and guide enterprises towards sustainable development of workplace health and safety to ensure the health of Taiwan's workforce.



Diversity, Equality, and Inclusion (DEI) : Leading the Way toward a Sustainable Healthy Workforce

In order to assist enterprises to demonstrate and disclose their OSH performance, OSHA issued the “Guidance on OSH Indicators for CSR Reporting towards SDGs” in 2022 (in both English and Chinese editions), with reference to the GRI 403 Standards announced by the Global Reporting Initiative. These material provide baseline and advanced indicators for qualitative and quantitative indicators as well as excellent case studies for enterprises as reference of their annual Corporate Sustainability Report (CSR) dissemination.

Implementation situation

- Surveying Corporate Sustainability Reports (CSRs) to establish national baselines:** In 2023 OSHA continued to survey the CSRs (or ESG Reports) of all TWSE listed companies and established baselines for their disclosure of workplace OSH performance in these reports. These baselines serve as the foundation for the promotion of healthy workforce development. Moreover, the baselines are reassessed and updated on a rolling basis as we continually align with international trends and developments.

- Recognition for “Sustainable Leading Enterprise in Healthy Workforce”:** To encourage enterprises to proactively publicize their efforts towards reaching GRI 403 OSH performance leading indicators, OSHA decided to recognize the top 10% enterprises with outstanding success in “OSH performance indicators disclosed in their CSRs” and to set up a learning mechanism to match up standards. Industrial sectors included electronics, finance and insurance, chemicals, food products, and building materials and construction are categorized in the award recognition. In 2023, we refined the awards mechanism and held the very first time event to acknowledge the awards of “Sustainable Leading Enterprise in Healthy Workforce” and invited award-winning enterprises to share their experiences with stakeholders.



- **Via media publicity to encourage enterprises to pay more attention to workforce health:** OSHA produced a series of three special reports and one video clip on the theme of creating a healthy workforce to guide enterprise employers and workers in all sectors to create positive workplace OSH cultures, enhance the health and quality of the labor force, and raise national competitiveness, with all the joint efforts.

Achievements in 2023

- OSHA initiated review and analysis of 633 CSRs of TWSE listed companies and publicized the survey results.
- We gave public recognition to nine outstanding enterprises as benchmark models for learning from among firms with excellent OSH performance.
- OSHA completed a series of reports and a video on “Unveil of a Healthy Workforce: Sustainable Competitiveness for Taiwan.”

Overtuning Stereotypes, Guiding for 3D Industries for improvement of workforce recruitment

There are more than 70,000 firms with 3D-featured (dirty, difficult, and/or dangerous) manufacturing processes in Taiwan. Even though most of these firms are SMEs, they generate total annual production value of nearly NT\$2.9 trillion, making them an essential pillar of Taiwan's economy. SMEs typically lack of sufficient OSH resources and have poor working environments. Most local workers are reluctant to work in these sectors with 3D conditions. As a result, these firms face the shortage of long-term labor, difficulty in retaining talented personnel, aging of their workforces, and difficulty in passing along skills.

Implementation situation

Since 2014, OSHA has been guiding and subsidizing 3D enterprises to improve their working environments. Striving ten years of efforts by the government and private sectors, companies have made integrated improvements of their workplaces, to overturn the stereotype that traditional industries feature wet, dark, hot, loud, and dusty, with unpleasant chemical odors. This change has helped SMEs to recruit and retain talented worker.



© “Unveil of a Healthy Workforce: Sustainable Competitiveness for Taiwan”



© The survey of OSH performance baselines disclosed in CSRs.





© Guidance personnel and enterprise representatives discuss an improvement plan jointly.

Achievements in 2023

In 2023 OSHA guided 104 firms and subsidized 54 companies in traditional industries to improve their working environments and transform their production processes. Subsidies totaled about NT\$45 million, while enterprises invested about NT\$290 million of their own funds in parallel. These efforts stabilized employment for over 7,840 workers and benefitted for over 10,665 workers.

Multiple Strategies to Deal with Extreme Heat in Order to Mitigate Heat Stress

In the wake of global warming and climate change, outdoor summer temperatures have continually elevated. To safeguard workers against occupational heat stress hazards while working under high tempera-

tures and cause employers to give more attention to the health of workers doing high-temperature outdoor jobs and adopt hazard prevention measures, in 2023 OSHA adopted the following three major measures.

Implementation situation

- **Expanding the special inspection programs for heat stress hazard prevention:** OSHA conducted audits of outdoor working environments for 9,413 trips. Moreover, inspectors made a list of high-risk workplaces such as construction sites and outdoor maintenance operations and audited their OSH implementation case by case to ensure that employers take measures to protect their workers.

- **Amending of the “Guidelines for Prevention of Heat Stress Hazards for Workers Conducting Outdoor Jobs under High Temperatures”:** The key points of the amendments include requiring employers to adopt heat stress hazard prevention management plans and measures, improving on-site operational conditions, strengthening adjustment of working hours, enhancing monitoring of body temperature and heartbeat, and taking steps to manage the health of middle-aged and elderly workers. OSHA thereby assisted employers to plan for and adopt heat stress prevention measures appropriately.
- **Expanding awareness-raising resources for heat stress hazard prevention:** By emphasizing on simplicity, liveliness, and visual images, OSHA produced four

sets of handbooks and posters for general industries and the construction industry on prevention of heat stress hazards during outdoor operations under high temperatures. These enable employers and workers to swiftly understand measures for prevention of heat stress as well as for emergency treatment of workers suffering heat-related health problems.

Achievements in 2023

- OSHA conducted 9,413 audits of outdoor working venues.
- We also produced four sets of handbooks and posters on prevention of heat stress hazards during outdoor operations under high temperatures for general industries and the construction industry.



© The handbooks on prevention of heat stress hazards during outdoor operations under high temperatures for general industries and the construction industry.

Creating Healthy Working Environments through Comprehensive Labor Health Services

In recent years, OSHA has worked to promote a system of localized labor health services, raise the coverage of healthcare for workers, and systematically provide benchmark learning opportunities for domestic SMEs. We have strengthened the quality of workplace healthcare, and through multiple strategies (including inspections, awareness-raising, guidance, and subsidies) to supervise enterprises in implementing protection physical and mental health of workers. Besides maintaining operations at Workers Health Services Centers in northern, central, southern, and eastern Taiwan, OSHA has provided workplace health hazard evaluations and on-site health management guidance and services tailored to the special industrial characteristics of enterprises. At the same time, we have cooperated with local governments, labor inspection institutions, labor unions, and industrial parks to offer on-site services for personal health consultations, guidance, and job suitability assessments for workers. Through easily accessible labor healthcare and more diversified assistance channels, OSHA has enhanced protection of workers' health and prevented work-related diseases.

Implementation situation

- OSHA has expanded labor health services, continued to create cooperation models with organizations that have outstanding OSH performance with large

companies serving as role models, founded OSH Families, and built up operating models. By integrating various resources of relevant organizations, providing subsidies for improvements, developing a labor health services handbook, creating easy-to-apply tools and guidelines, and holding conferences to share labor health services models, OSHA has gone all-out to assist industries to improve their working environments and create workplaces where workers can do their jobs with peace of mind.

- OSHA has also assisted SMEs to promote labor health protection, and, working through the "On-Site Health Service Subsidy Plan for Small and Medium Enterprises." The plan has provided subsidies to enterprises with 199 workers or fewer that are required to employ or contract with doctors, nurses, or other relevant personnel to provide on-site labor health services by law. We have thereby assisted in strengthening workplace health protection measures.

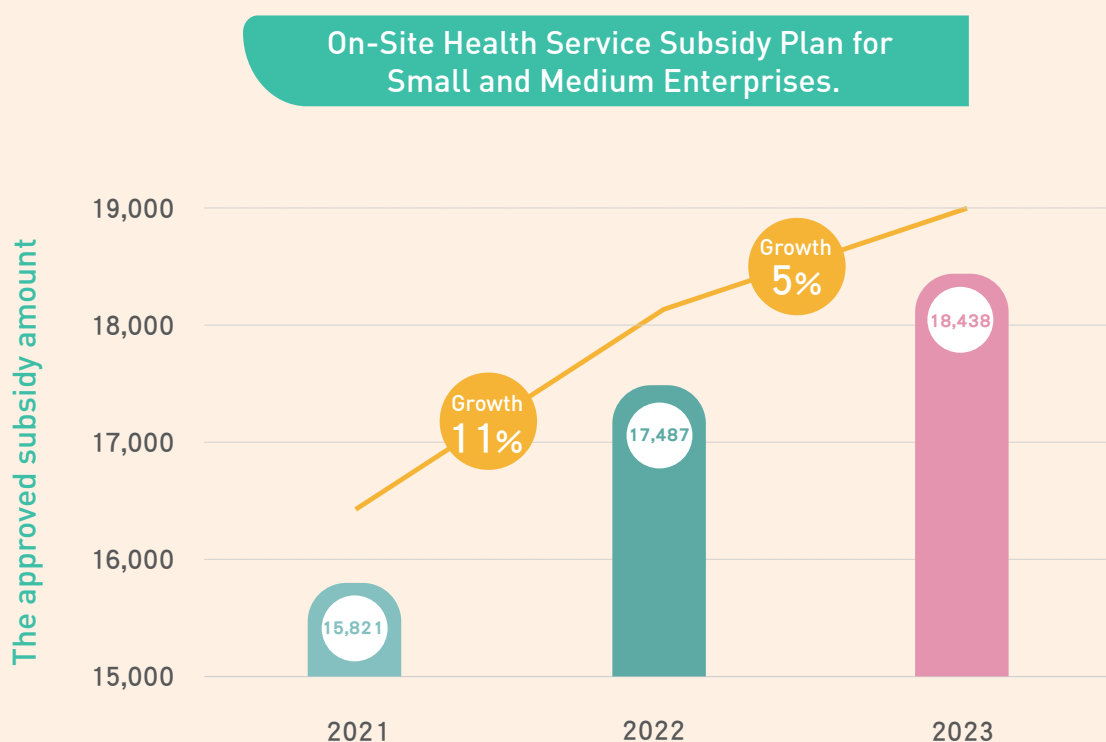


- To enhance workforce health, based on practical needs, OSHA again amended the “Subsidy Directions for Promoting Business Entities to Improve the Working Environment and Workers’ Health.” in 2023. Through these we assisted SMEs to create healthy working environments, by providing subsidies for improvements in working environments and production process equipment engineering (such as reducing noise and vibrations and minimizing repetitive tasks). This Direction support necessary funds to provide tools for prevention of physical and mental health hazards and workplace health improvement measures. Such steps have strengthened workplace OSH, protected labor

health, and facilitated stable employment.

Achievements in 2023

- OSHA provided services or guidance to SMEs over 571 cases, covering workers for over 34,000 occasions.
- We assisted enterprises a total of 4,323 cases with the support of “On-Site Health Service Subsidy Plan for Small and Medium Enterprises”, with total subsidies of over NT\$184.38 million.
- We implemented the “Subsidy Directions for Promoting Business Entities to Improve the Working Environment and Workers’ Health,” providing subsidies exceeding NT\$12.92 million to 57 firms.



© The approved subsidy amount for the “On-Site Health Service Subsidy Plan for Small and Medium Enterprises.”



Assisting Workers in Responding to Occupational Accidents

OSHA has continued to promote the system of accreditation of “Specialized Hospitals for the Diagnosis and Treatment of Occupational Injuries and Diseases” (SHDTOIDs) and “Professional Occupational Rehabilitation Institutions for Workers Suffering from Occupational Accidents” (PORIWSOAs) to strengthen medical and rehabilitation assistance to workers who have suffered occupational accidents (including diseases). Thus far 15 SHDTOIDs and 31 PORIWSOAs have been accredited nationwide, and there are more than 80 network hospitals serving occupational injury and disease diagnosis and treatment. We also completed the establishment of network hospitals in remote offshore islands including Penghu, Kinmen, and Matsu. OSHA has also subsidized 22 local governments across Taiwan to employ 65 professionals for occupational accident workers service (PAS) for workers who have suffered occupational accidents (hereafter “affected workers”) to provide individualized and in-depth services using the case management method. In these ways OSHA supports affected workers and their families in dealing with their difficult situations and return to work.

Professional Committees to Streamline Occupational Disease Appraisal

To protect the rights and interests of affected workers and their families, based on the “Labor Occupational Accident Insurance and Protection Act” and the “Implementation Regulations for Occupational Disease Appraisal of Labor Occupational Accident Insurance,” OSHA has established a model for professional reviews of such diseases and for appraisal by special committees. We have simplified and optimized the appraisal mechanism by streamlining the documentary review and meeting procedures, thereby making appraisals more efficient.

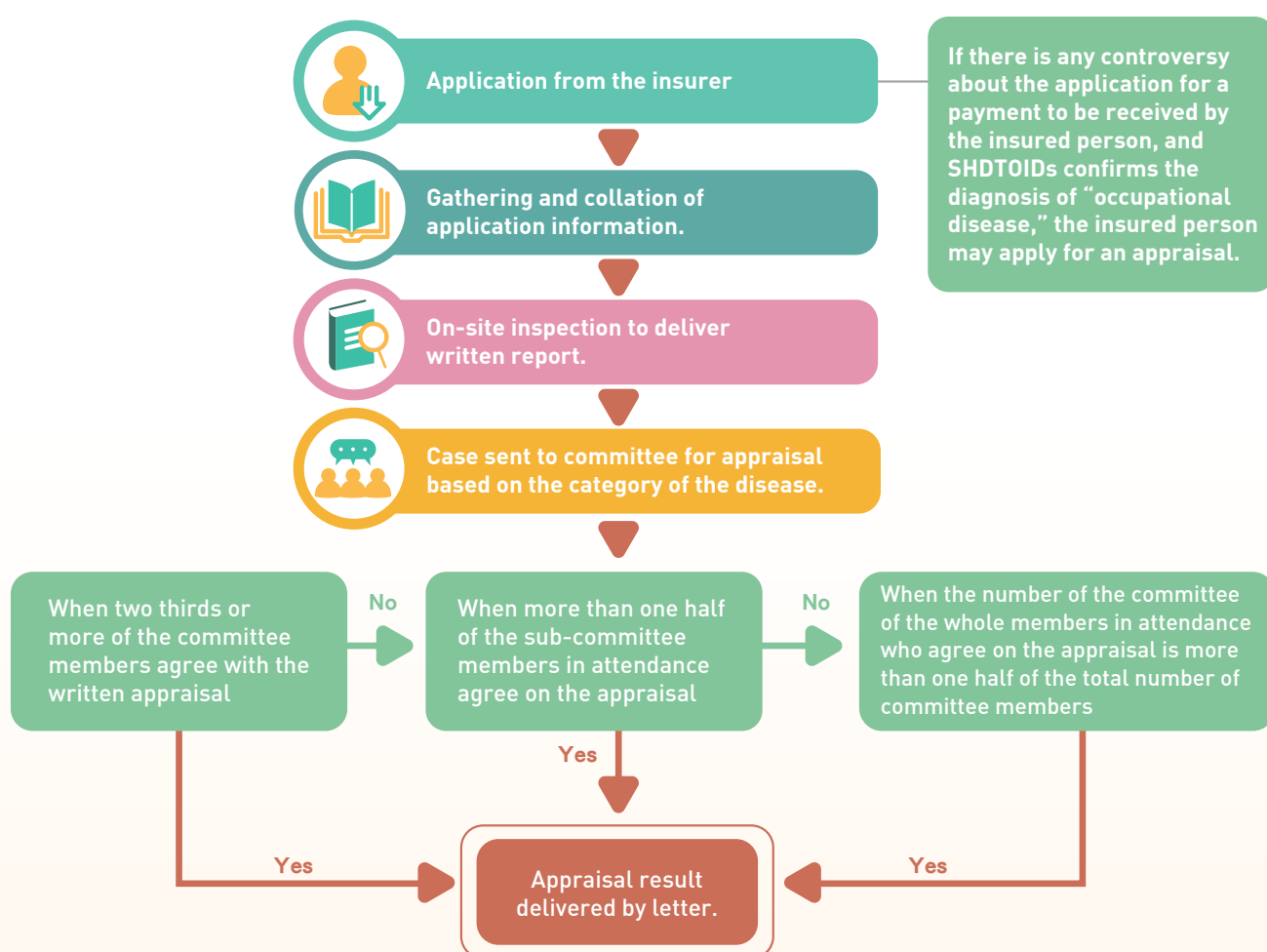
Implementation situation

To protect the rights and interests of affected workers, in coordination with recent legislation, OSHA has promoted the following appraisal strategies:

- **Ensuring expertise in the appraisal process:** OSHA issued the “Implementation Regulations for Occupational Disease Appraisal of Labor Occupational Accident Insurance,” under which OSHA is authorized to compile a list of occupational disease appraisal experts and form occupational disease appraisal committees, in order to ensure expertise in the appraisal process.

- Strengthening of appraisal reviews for occupational diseases, use of professional committees for appraisals, and streamlining the appraisal process:** Because occupational disease appraisal involves specialties including occupational medicine and occupational health, OSHA has demanded the Center for Occupational Accident Prevention and Rehabilitation and labor inspection institutions to build up expert teams to assist in occupational disease reviews and deliver review reports of the

occupational medical evidence. Moreover, based on the category of diseases to be appraised, we have built three committees to ensure that, through a professional division of labor, appraisal opinions can be properly aggregated, also the documentary review and meeting process can be simplified (adjusted from two reviews to one), in order to enhance the efficiency of appraisals. The process for occupational disease appraisal is shown in the following graphic:



Achievements in 2023

As of the end of 2023, appraisal committees had handled seven cases, of which four were for psychological conditions, two were for cerebrovascular and cardiovascular disease, and one was for a musculoskeletal disorder. As a result of appraisal, verdicts have been reached and determined that neither was a work-related for both two cerebrovascular and cardiovascular disease cases. The average amount of time required for an appraisal was 192 days, which marked a significant reduction in the time required for appraisals under the “Act for Protecting Worker of Occupational Accidents.”

Imbuing Employers and Workers with Accident Prevention and Rehabilitation Concepts, Implementing Subsidies

In order to expand coordination with non-governmental civil societies and other stakeholders to jointly participate in promoting occupational accident prevention and rehabilitation for affected workers, OSHA has subsidized relevant institutions, legal entities, and association groups to offer awareness-raising of these matters (prevention and rehabilitation) and conduct related studies. Moreover, to ensure the quality of life of affected workers and their families, both the “Labor Occupational Accident Insurance and Protection Act” and its predecessor law the “Act for Protecting Worker of Occupational Accidents” made provisions for a variety of sub-

sidies to workers both covered by and not covered by Labor Insurance.

Implementation situation

- OSHA has subsidized relevant institutions, legal entities, and association groups to conduct awareness-raising activities related to accident prevention, disease prevention, and rehabilitation for affected workers, in order to strengthen workers’ OSH knowledge and enhance workers’ abilities to prevent and overcome accidents.
- Under the “Act for Protecting Worker of Occupational Accidents” subsidy items included the occupational disease living allowance, disability living allowance, living allowance for vocational training, device subsidy, care-taking subsidy, and survivors’ allowance. For persons who did not join Labor Insurance, besides the above allowances and subsidies, when in case such a worker suffered an occupational accident leading to death or a disability meeting the requirements of Level 1 through 10 in the appendix to the “Labor Insurance Disability Benefit Payment Standards,” in which the individual has not received sufficient compensation from the employer, he/she may also apply for the fatality subsidy or the disability subsidy.

- The “Labor Occupational Accident Insurance and Protection Act” incorporates various allowances and subsidies of the “Act for Protecting Worker of Occupational Accidents” and increases the level of payments. In addition, to provide assistance to affected workers in their post-accident lives, OSHA provides subsidies for items listed in the attachment of, and for special-case assistive devices not included in the attachment of the “Regulations for Workers of Occupational Accidents Applying for Subsidies of Devices, Care, Disability and Death.”
- In 2023 OSHA provided allowances and subsidies under the “Act for Protecting Worker of Occupational Accidents” in 2,212 cases, with payments totally over NT\$228.84 million. In addition, we provided device subsidies under the “Labor Occupational Accident Insurance and Protection Act” in 437 cases, with payments exceeding NT\$3.96 million. Total payments surpassed NT\$232.81 million.

Enhancing Tailor-made Services Capabilities, Helping Affected Workers Return to Work

Professionals for occupational accident workers service (PAS) deliver personalized and in-depth services to affected workers, and at the same time link them with social welfare resources, support the workers and their families as they get through harsh times, and assist affected workers to return to work.

Achievements in 2023

- OSHA approved subsidiary funds for 20 organizations to hold awareness-raising events for occupational accident prevention and rehabilitation on 98 occasions, with over 5,880 participants. We also subsidized seven organizations with funds to conduct study projects related to prevention and rehabilitation.



© Professionals for occupational accident workers service (PAS) for affected workers organize support groups and growth sessions for such workers.

Implementation situation

OSHA subsidizes the employment of 65 professionals for occupational accident workers service (PAS) by 22 local governments to provide personalized services including:

- Support for the families of affected workers
- Upholding the rights and interests of workers
- Linking affected workers with rehabilitation and employment services
- Assisting workers to return to work
- Condolence payments for the families of workers who lost their lives on the job

Achievements in 2023

- OSHA made condolence payments to the families of workers who lost their lives in occupational accidents in 325 cases, with payments totaling over NT\$32.29 million.
- Professionals for occupational accident workers service (PAS) provided individualized services to affected workers and their families 95,130 times.
- Starting in June of 2023, for cases within the three categories of “falling from a height or falling down,” “being pinched or rolled up,” or “arm, neck, and shoulder disorders” (within the list of reasons under accident insurance for occupational accidents), which might require occupational rehabilitation very possibly, rehabilitation services reference evaluation is mandatory

in all such cases. In 2023, patients were referred to “Professional Occupational Rehabilitation Institutions for Workers Suffering from Occupational Accidents” in 577 cases.

- In November of 2023, OSHA’s “integrated management system of services for workers who have suffered occupational accidents” was interlinked with six other information systems including the Workforce Development Agency’s information systems related to occupational rehabilitation and occupational training for persons with occupational physical or psychological disabilities. Since the completion of the interface, professionals for occupational accident workers service (PAS) in local government can use the new OSHA system to refer the disabled to vocational rehabilitation or employment services providers.



© Professionals for occupational accident workers service (PAS) for workers who have suffered occupational accidents hold a consultation activity on the rights of affected workers.



Refining Self-Management at Enterprises

According to the "Occupational Safety and Health Education and Training Rules," employers must provide workers with necessary OSH education and training. To enhance workers' OSH knowledge and ensure the quality of training, OSHA has adopted a graded management system for training organizations in Taiwan. Moreover, we use innovative technology, promote smart management systems, and assist local competent authorities with supervision and audits.





© TOSHMS promotional associations organized an exhibition of achievements.

In 2008 OSHA began promoting the Taiwan Occupational Safety and Health Management System (TOSHMS) certification system. In 2020 we began working with the Taiwan Accreditation Foundation (TAF) to develop the “TOSHMS certification program” (TOSHMS 2.0).

Implementation situation

- OSHA requires certification institutions to receive accreditation under the TOSHMS 2.0 certification plan. In addition, OSHA requires these institutions to cooperate with the TAF in its annual reviews of TOSHMS certification institutions as well as reviews of the auditing process used by TOSHMS certification auditors. The goal is to enhance certification quality.
- TOSHMS-certified enterprises qualify for various OSH awards. In addition, OSHA will use guidance and supervision with respect to TOSHMS-certified enterprises rather than inspections in order to encourage implementation of self-management.
- In order to enhance the adoption of OSH management systems by enterprises, OSHA will continue to hold awareness-raising activities in northern, central, and southern Taiwan for these systems and use a variety of methods to strengthen related promotion and awareness-raising.

Achievements in 2023

- OSHA amended and announced the “TOSHMS Specified Audit Item Requirements” to strengthen the effectiveness of implementation by TOSHMS certification organizations of various aspects of their work including continual reassessment and improvement of various management tasks and accident investigations.
- A total of 937 enterprises have received TOSHMS certification that continues to be valid, protecting about 1.068 million workers. Of these firms, about 854 (91.1%) are enterprises with high risks, while the remaining 83 (8.9%) are enterprises with medium and low risks.
- The three regional TOSHMS promotion associations held 11 education, study, or hands-on demonstration activities and one exhibition of achievements;

amended and edited four existing case study handbooks; produced two new case study handbooks; produced six sets of management case-based awareness-raising materials; and submitted three articles to journals. They also organized an OSH poster competition, receiving 77 submissions.

- A total of 418 enterprises met the requirements for a reduction of the Business Category Accident Premium.

Recognizing Enterprises with Excellent OSH Performance to Serve as Role Models

To encourage enterprises, on their own, to enhance OSH expertise and create labor-friendly working environments with outstanding safety and to inspire enterprises to pursue ever-improved OSH performance, OSHA has hosted for a number of OSH awards.



Implementation situation

OSHA has established a number of awards, including the “National Occupational Safety and Health Awards,” the “Outstanding Construction Golden Safety Awards,” and the “Awards of Outstanding Occupational Safety and Health Organizations and Individuals,” in order to recognize enterprises and individuals who have worked to improve workplace OSH environments.

Achievements in 2023

- A total of ten enterprises received recognition of the “National Occupational Safety and Health Awards,” including three winners of “Benchmark Enterprise Awards” (Uni-President, Green Point, and VisEra), two winners of “Small and Medium Enterprise Awards,” one winner of an “Investment in Traditional Industries Special Award,” and four winners of “Workers’ Health Special Awards.”
- A total of 30 construction projects and 12 individuals won “Outstanding Construction Golden Safety Awards.” Among projects there was one “Special Merit” award winner, 11 “Merit” award winners, and 18 “Honorable Mentions.”
- A total of 42 organizations and 23 individuals received recognition of the “Awards of Outstanding Occupational Safety and Health Organizations and Individuals,” of which seven enterprises topped the “Five-star Awards.”



© A group photo with Premier Chen Chien-Jen, Minister of Labor Hsu Ming-Chun, and award-winning enterprises and individuals.

04

**International
Interactions**





International Cooperation Founded on Friendship

In order to broaden international activities and OSH policy perspectives, in 2023 OSHA received visiting delegations from countries including the US, Singapore, and Korea, to build the foundations for interactions, deepen international cooperation and mutual exchanges.

The United States

Fitzgerald Washington, the President of the National Association of Government Labor Officials and the Secretary of the Alabama State Department of Labor, led a delegation of executives of labor affairs agencies from various states, the National Labor Relations Board, and the Federal Mediation and Conciliation Service on a visit to Taiwan OSHA on October 31, 2023. At the meeting, the US delegates explained that OSH promotion

in various states differed somewhat because of the nature of local industries. Meanwhile, we shared our OSH vision, organizational structure, policy goals, governing laws and regulations, implementation performance, and successes in the area of international interactions and cooperation. The visit laid a strong foundation for Taiwan-US interactions and cooperation in labor affairs.



Singapore

The Singapore College of Public Health and Occupational Physicians (CPHOP), founded in 2013, is composed of experts with backgrounds in public health and occupational medicine, and it provides public health, occupational medicine, and continuing education services. On November 2, 2023, a delegation of CPHOP specialists in occupational medicine led by Dr. Wong Shiu-Hong visited OSHA. Their visiting purpose was to understand and learn from Taiwan's OSH regulatory regime and policies. This was the first time that the CPHOP and OSHA engaged in exchanges on OSH policies between two countries, and the visit raised the international visibility of Taiwan's policies to promote OSH, achieving a new milestone in international cooperation.



© Photo of OSHA Director-General Tzou Tzu-Lien photo with Dr. Wong Shiu-Hong of Singapore's College of Public Health and Occupational Physicians.



© Photo of OSHA Director-General Tzou Tzu-Lien with the delegation from Singapore.

Korea

On December 20, 2023, Kim Sukyoung, Director of the Korean Academic Society of Occupational Health Nursing, led a delegation of Korean academics, medical professionals, and representatives of private enterprises to OSHA. They learned about Taiwan's situation with respect to promotion of occupational health management. OSHA also invited representatives of related local professional associations including the Taiwan Association of Occupational Health Nurses, the Occupational Health Nursing and Education Association of Taiwan,

and the Industrial Safety and Health Association of the ROC to attend and exchange information with the visitors. Attendees at the meeting exchanged views with respect to the regulatory norms for occupational health in the two countries, the provision of on-site health services, and the promotion of care for worker's physical and mental health. The event set a landmark in Taiwan's international cooperation of the topics of occupational health and sound workplace environments.



© Photo of delegates from the Korean Academic Society of Occupational Health Nursing and OSHA representatives.



Sharing Taiwan's Unique Experiences

The APEC Chemical Dialogue Meetings

The Asia-Pacific Economic Cooperation (APEC) grouping was founded in 1989 as a forum for Asia-Pacific regional economic cooperation, and it is committed to provide more diverse, safer, and innovative industrial environments. In order to exchange information and ideas with the international community on practices and experiences in the management of chemicals, OSHA attended the annual “Chemical Dialogue Meetings” at the first and third APEC “Senior Officials’ Meetings” in February and August of 2023. We engaged in discussion with other member economies on subjects including cooperation and convergence of chemical monitoring and control through the Globally Harmonized System for the Classification and Labelling of Chemicals (GHS). OSHA also made reports on the construction of an APEC information exchange website (with which Taiwan is the host member) and progress in the APEC G.R.E.A.T. program. These are concrete contributions by which Taiwan is able to participate in, and dedicate our supports for promoting the goal of chemical safety sustainability with the international community.





© Photo of Taiwan's delegation with the Co-Chairmen of the APEC Chemical Dialogue

In the future OSHA will continue to participate in partnership proposals with APEC member entities and join in international cooperation to collectively promote projects for the updating of the GHS guidelines and tools. We will also collect information on international practices related to chemical management for reference in the promotion of related policies in Taiwan for worker protection. OSHA will moreover coordinate with APEC's scrutiny of the latest edition of the GHS Purple Book and progress on harmonization among the member countries. At the same time, we will launch revisions to Taiwan's edition of GHS and adopt coordinated measures to assist enterprises in coping with and promoting GHS.

The World Congress on Safety and Health and Work

OSHA participated in the "2023

World Congress on Safety and Health at Work" from November 26 to December 1, 2023. At the meeting we exchanged ideas with other countries on OSH practices and experiences, as well as publicized Taiwan's OSH achievements. OSHA Director-General Tzou Tzu-Lien was invited to be a speaker at a seminar on the "Gig Economy." Taking food delivery platforms as an example, Tzou shared Taiwan's measures to protect delivery personnel including the adoption of guidelines, requirements for businesses to implement procedures to prevent and deal with traffic accidents, the provision of education and training, creation of a rational dispatch mechanism, and strengthened insurance coverage. At the Congress OSHA learned from the experts' knowledge and valuable experiences of other countries to serve as reference in making and promoting related policies in Taiwan.

The APEC Workshop on Advancing Human-centered Occupational Safety and Health Measures in the Digital Age

On December 12, 2023 the Ministry of Labor held the “APEC Workshop on Advancing Human-centered Occupational Safety and Health Measures in the Digital Age.” Representatives from the European Union, Brunei, Korea, Malaysia, New Zealand, Thailand, and international organizations of workers and employers, as well as Taiwanese OSH experts and scholars, were invited to share ideas on the OSH risks generated by the digital age and possible countermeasures. OSHA Director-General Tzou Tzu-Lien was invited to serve as chairman of the “Panel Discussion on Public-Private Collaboration in Promoting Inclusive OSH.” He guided an in-depth conversation involving labor, employers, and governments to explore how to use public-private collaboration to create inclusive and human-centered strategies to deal with the future development of digital technology, emerging job types, and potential OSH challenges.



© OSHA Director-General Tzou Tzu-Lien served as chairman of the “Panel Discussion on Public-Private Collaboration in Promoting Inclusive OSH.”



Welcoming OSH Partners from around the World

The 2023 Occupational Safety, Health, and Rehabilitation International Conference

From November 10 to 11, 2023, OSHA held the “2023 Occupational Safety, Health, and Rehabilitation International Conference.” We invited relevant scholars and experts from home and abroad to discuss the experiences of various countries in these areas. The conference raised the visibility of Taiwan’s achievements in occupational safety and in the prevention of occupational accidents (including illnesses); provided material for reference in planning of future labor policies; and contributed to the realization of the goals of “safe work,” “safe workplaces,” and “safe labor.”

The Annual Seminar on Explosion Protection and Industrial Safety

On October 26, OSHA held the “2023 Annual Seminar on Explosion Protection and Industrial Safety,” to which we invited experts from the fields of equipment and technology to prevent explosions of electrical equipment and explosion-prevention certification from Korea and Belgium: Mr. Kang Jeong-Il from the Korea Occupational Safety and Health Agency and Mr. Kristof De Gersem from the TÜV SÜD certification organization, respectively. They discussed issues including Korea’s certification system for explosion-prevention safety technology and on-site explosion prevention measures as well as future hydrogen green energy applications and operational safety with Taiwanese manufacturers of explosion-prevention technology for electrical equipment,

importer-exporters, representatives of users, and scholars and experts from relevant fields. The issues discussed were forward-looking and practical for increasing local understanding of the development of international explosion-prevention technology for electrical equipment and promotion of certification systems.



© OSHA Deputy Director-General Ju Jin-Long delivers remarks at the “2023 Annual Seminar on Explosion Protection and Industrial Safety.”



© Minister of Labor Hsu Ming-Chun and OSHA Director-General Tzou Tzu-Lien with attendees at the "2023 Occupational Safety, Health and Rehabilitation International Conference."

The International Occupational Safety and Health Conference of Green Energy Industries

To promote international interactions and cooperation in the field of OSH in Taiwan's green energy industries, on December 5 OSHA held the "2023 International Occupational Safety and Health Conference of Green Energy Industries." Representatives of the UK Health and Safety Executive, the German Federal Institute for Occupational Safety and Health, the International Association of Labour Inspection, the British Office Taipei, and the German Institute Taipei, as well as green energy experts and scholars from the Japan High Pressure Gas Safety Institute, Taiwan Shipbuilding Corporation Offshore Wind Farm, InfraVest Wind Power Group, and Ørsted A/S were invited to attend. At the conference experts from Taiwan and overseas shared information on the latest

trends and practices in OSH in green energy industries, focusing on three main areas: offshore wind power, development strategies for photovoltaic and hydrogen energy, and inspection challenges and practices. Attendees engaged in in-depth discussions and sharing of views, with the aim being to refine OSH standards in Taiwan's green energy industries.



© Deputy Minister of Labor Hsu Chuan-Sheng and OSHA Director-General Tzou Tzu-Lien with attendees at the "2023 International Occupational Safety and Health Conference of Green Energy Industries."

2023 Seminar on Hydrogen Generation, Hydrogen Energy Development, and Application Safety

In order to strengthen the safety self-management mechanism for high-pressure gas-related industries and enhance the safety competency of enterprises, starting in 2009 the Labor Affairs Council (predecessor to the Ministry of Labor) began cooperating with the Taiwan High-Pressure Gas Industrial Association to hold an international conference. Following the government's reorganization, in 2014 OSHA began working with the same Association to hold an international conference once every two years. The conference explores issues related to safety management of high-pressure gases, enabling Taiwan to get in line with international practices. At the same time, through exchanges on international technology, knowledge, and experiences, the safety consciousness of related industries can be elevated.

Hydrogen energy is an emerging approach to carbon emissions reduction. However, hydrogen is a flammable gas, and even small errors in the manufacture, use, operation, and transport of hydrogen gas can lead to major incidents involving fires, explosions, and burn injuries to personnel. In order to help enterprises in enhancing their hydrogen safety management capabilities, on December 11, 2023, OSHA and the Taiwan High-Pressure Gas Industrial Association jointly held the "2023 Seminar on Hydrogen Production, Hydrogen Energy Development, and Application Safety." We invited experienced experts and scholars from foreign countries including France and India as well as domestic high-pressure gas safety experts to attend. Participants explored the topics of manufacture of hydrogen, the development of hydrogen energy, and safety and management technology and practices for applications of hydrogen in the international community; introduced the status with respect to hydrogen energy development globally as well as discussed future applications in Taiwan; introduced hydrogen and green energy production systems; discussed safety standards for hydrogen gas filling stations; and shared about practices for safety in the storage, handling, and distribution of liquefied hydrogen. The event strengthened safety in hydrogen gas production and hydrogen energy applications by enterprises.



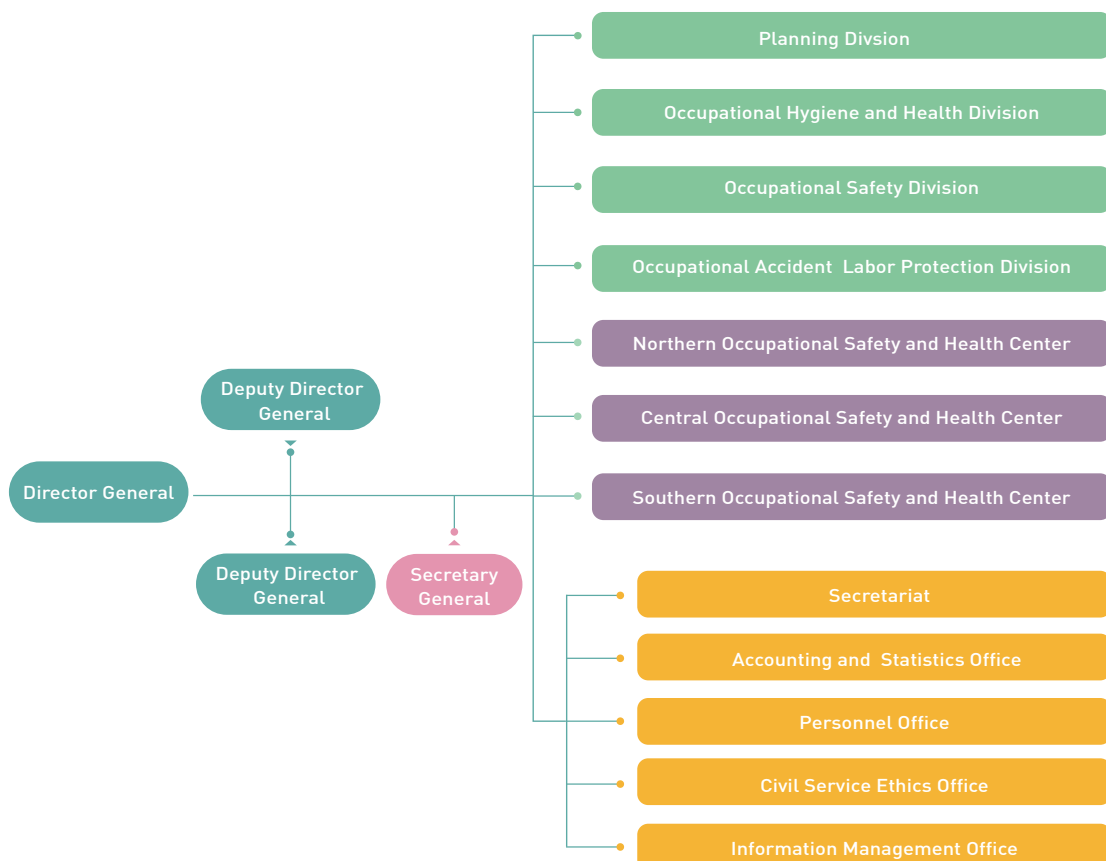
© OSHA Director-General Tzou Tzu-Lien with distinguished guests at the "Seminar on Hydrogen Production, Hydrogen Energy Development, and Application Safety."

Appendix

Organization and Services of OSHA

With reference to International Labor Organization (ILO) conventions, including the "Promotional Framework for Occupational Safety and Health Convention" (ILO No.187) which was announced by the ILO in 2006, Taiwan has taken pro-active steps to define a national OSH policy, to construct a national system of laws, regulations, and enforcement, and to implement national programs for OSH. In taking these actions, OSHA has given shape to an OSH culture based on people which emphasizes workers' safety and health and has steadily built safer and healthier working environments.

OSHA was founded on February 17, 2014 with the goal of enabling every individual to enjoy a safe, healthy, and decent work environment as well as occupational injury and disease diagnosis, compensation, and rehabilitation services, to safeguard the health of the labor force and boost national competitiveness. OSHA's current organizational framework is as follows: The Director General is in charge of overall work, with two Deputy Directors General and one Secretary General subordinate to the Director General. There are also four functional divisions, three Occupational Safety and Health Centers, and five supporting offices, based on operational needs. The current budget allows for 309 total personnel. The organizational chart is shown below.



Occupational Accident Statistics

Fig 1. Occupational Accident Rate per 1,000 Workers under Labor Insurance Compensation

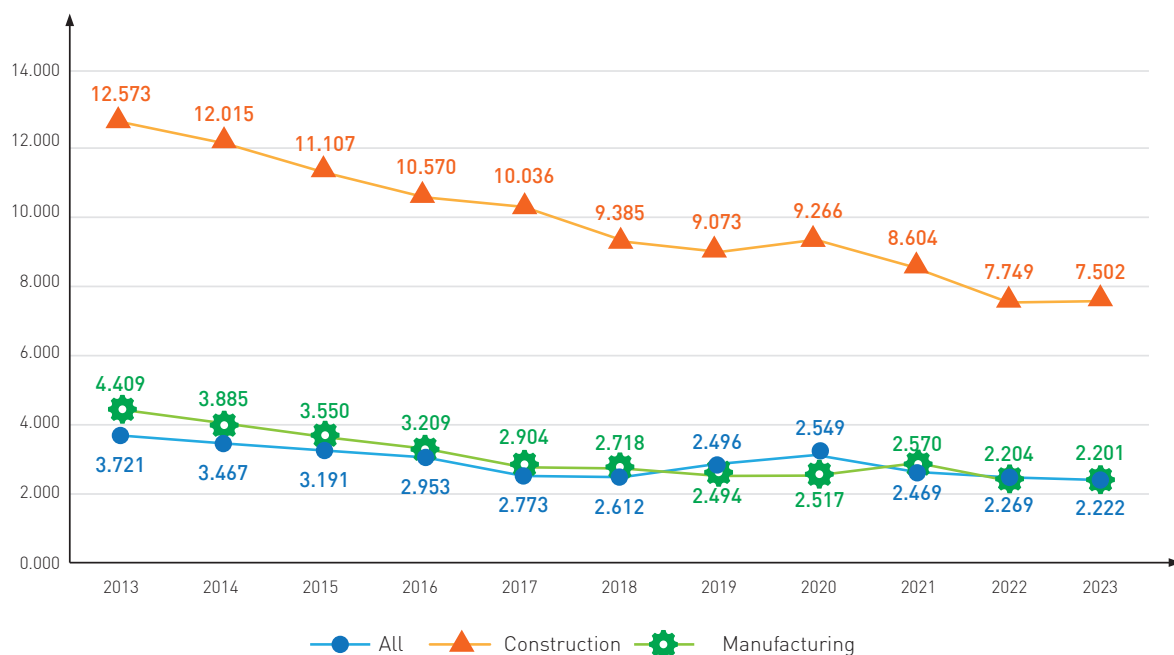


Fig 2. Occupational Fatality Rate per 1,000 Workers under Labor Insurance Compensation

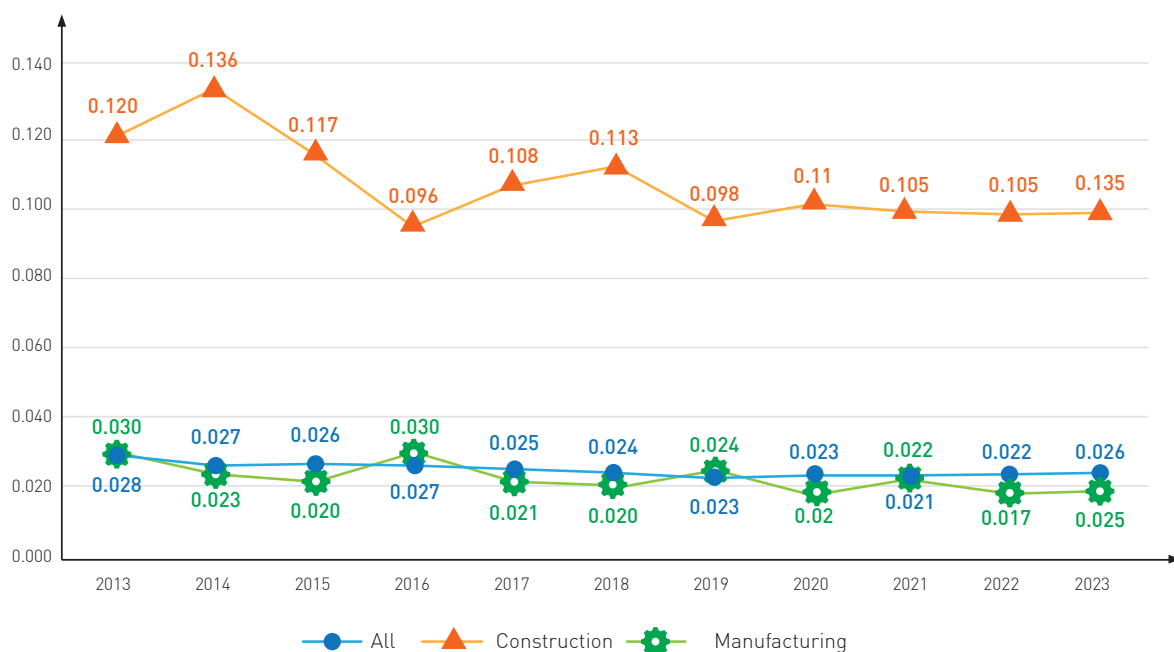


Fig 3. Occupational Disability Rate per 1,000 Workers under Labor Insurance Compensation

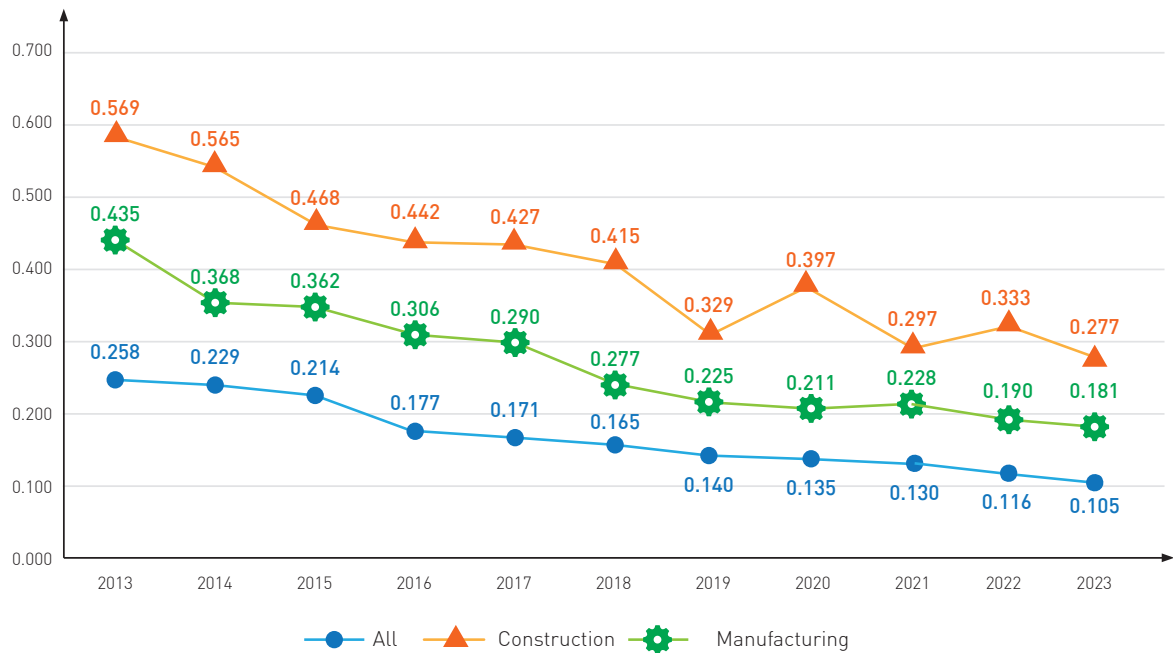
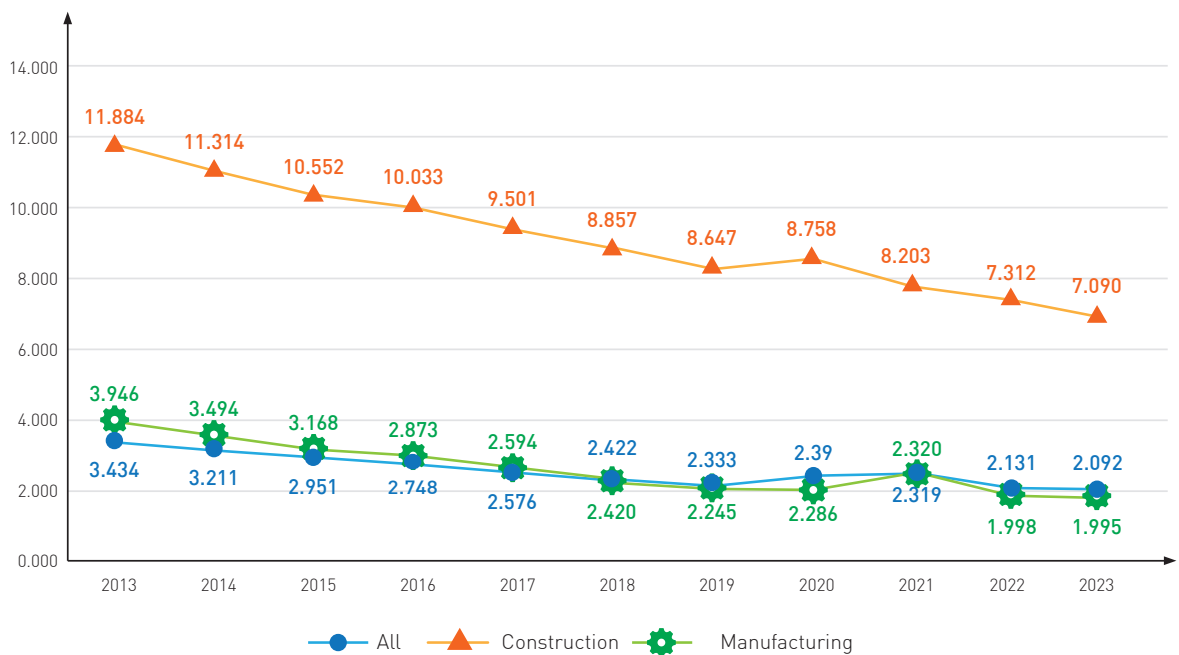


Fig 4. Occupational Injury Rate per 1,000 Workers under Labor Insurance Compensation



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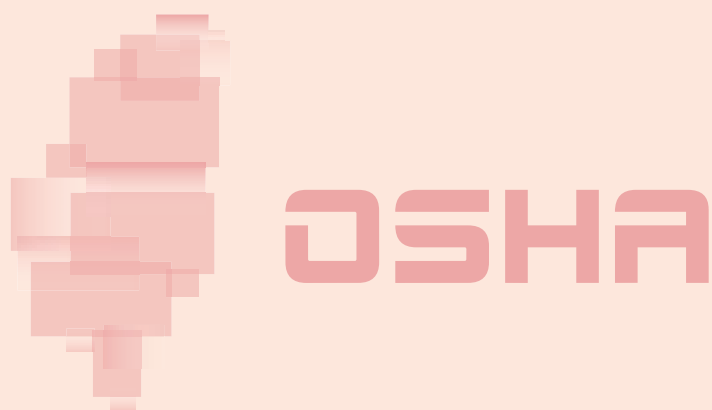
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