

2023 Annual Report Of BSMI

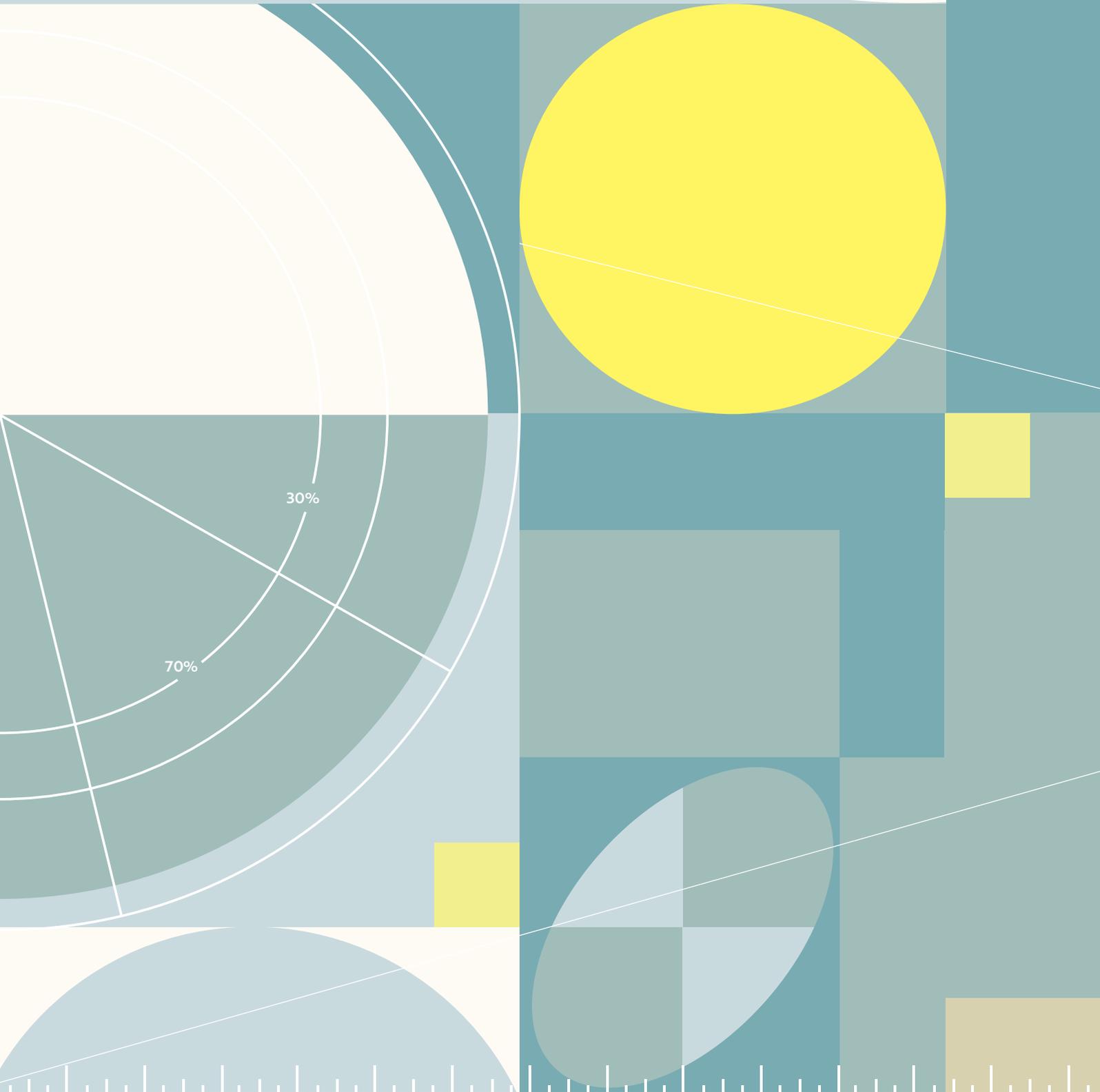


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Chapter 1

Foreword from the Director General



As the newly appointed Director General of BSMI, it is my privilege to present the work that we have accomplished in 2023. Following a government reorganization in September 2023, the BSMI assumed authority over the Commodity Labeling Act. This repositioning enables BSMI to take a unified approach, simplifying compliance for manufacturers and enhancing market education on product safety issues.

The year 2023 has been one of substantial growth and achievement. Our efforts have centered on enhancing product safety and sustainability, aligning with our commitment to protecting consumers and nurturing an environment-friendly economy. We spotlighted major advancements in 6 strategic areas, each reflecting our progress made over the past year.

In the realm of product safety, we expanded our regulatory scope to include new product categories such as water filters, drones, indoor playsets, portable air conditioners, and horizontal freezers. These actions affirm that the latest advancements comply with exacting safety standards, instilling confidence in consumers and stakeholders. We have also introduced voluntary product certification programs that cover a range of emerging technologies, from Electric Vehicle Supply Equipment (EVSE) to 5G technologies, Photovoltaic systems, and battery storage solutions. Launching our first MW-level smart inverter testing laboratory in Taiwan marks a crucial step forward in our pursuit of excellence in testing and certification.

Sustainability remains at the core of our mission under the net-zero emission policy. In 2023, the number of renewable energy certificates we issued saw a significant increase from the previous year, supporting our business operators in reaching their environmental goals. We helped review 4 offshore wind farm projects, assessing their safety and performance. We also extend our focus to enhancing the testing capacity for energy-saving tires, a move that not only promotes environmental conservation but also supports consumer savings through reduced energy costs.

In addition, the revision and development of 264 national standards in fields like renewable energy, electric vehicles (EV), robotics, textiles, and childcare products last year demonstrates BSMI's proactive approach to keeping pace with technological advancements, prioritizing consumer safety, environmental sustainability, and market readiness of new technologies.

Our achievements not only fulfilled domestic goals but also deepened the collaborative efforts with international counterpart organizations. These included negotiating cooperative documents, holding formal meetings, organizing joint workshops, and providing capacity building courses. At multilateral and regional level, we actively participated in WTO and APEC to share our regulatory experiences and best practices in conformity assessment and E-commerce, electric vehicle supply equipment, and e-labelling.

Looking ahead, we will continue advancing our standards and regulatory frameworks to keep pace with technological progress. Our focus will be on enhancing consumer trust and facilitating the adoption of new technologies that contribute to a sustainable and economically vibrant future. We are committed to ongoing dialogue and cooperation with our international partners, ensuring that our policies reflect both global trends and local needs.

Yi-Ling Chen

Director General

Chapter 2 BSMI Overview

WHO WE ARE

The Bureau of Standards, Metrology and Inspection (BSMI) under the Ministry of Economic Affairs (MOEA) is the authority responsible for standardization, metrology and consumer product safety in Taiwan.

WHAT WE DO

Being guided by the principle of “Innovative Thinking, Proactive Service and International Connection,” we follow good practices to encourage innovation of technology, provide adequate protection for the public, and facilitate trade by eliminating technical barriers to trade.

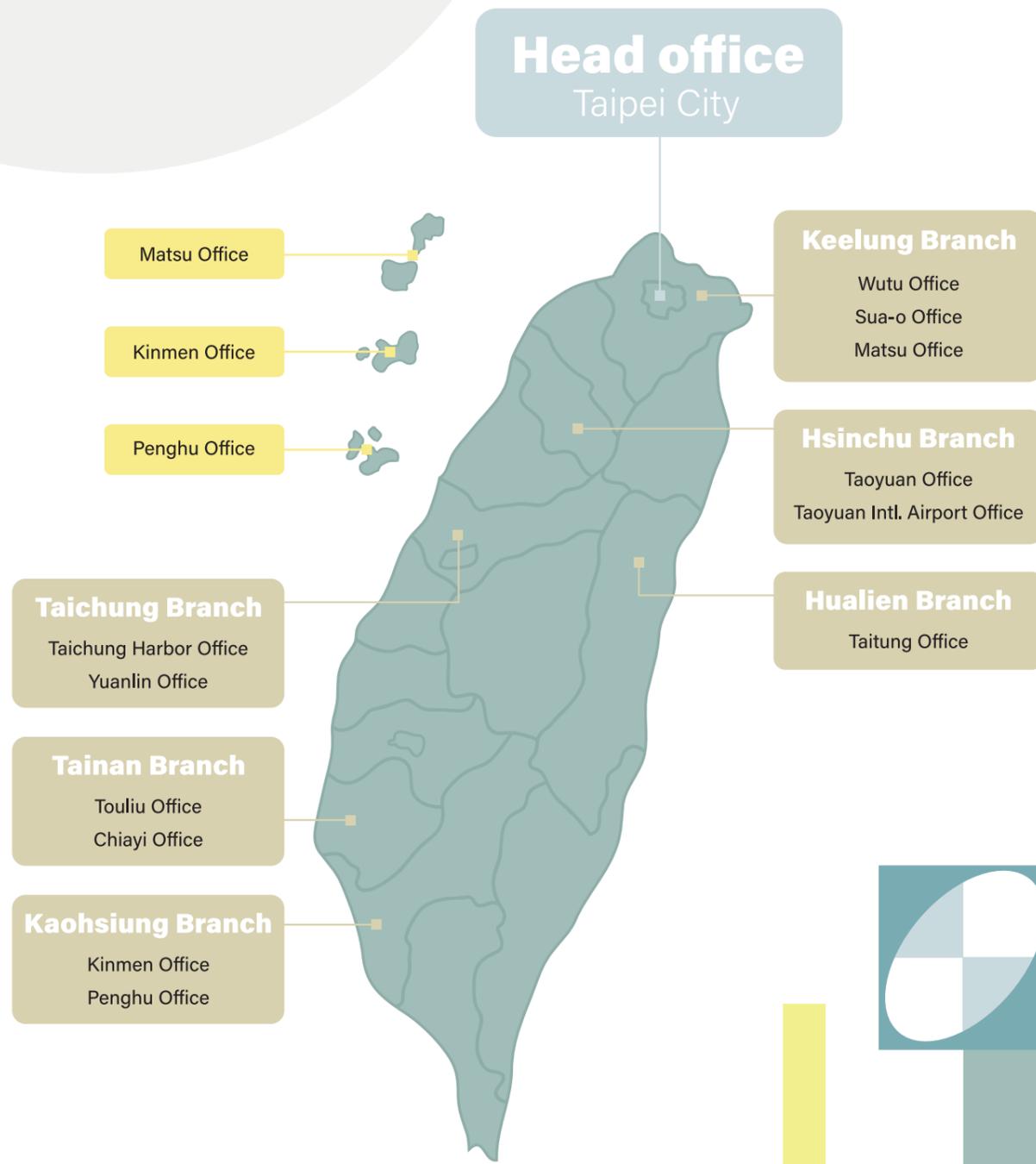
The core functions of BSMI are as follows:

- Developing and maintaining national standards;
- Regulating and monitoring safety of products, mainly industrial and consumer products; developing commodity labeling rules and requirements;
- Establishing and maintaining national metrology system, including legal metrology and scientific metrology;
- Developing voluntary certification programs for products of emerging technology, including issuance of Taiwan Renewable Energy Certificates; and
- Engaging with international partners to collaborate on matters involving standardization and conformity assessment activities.

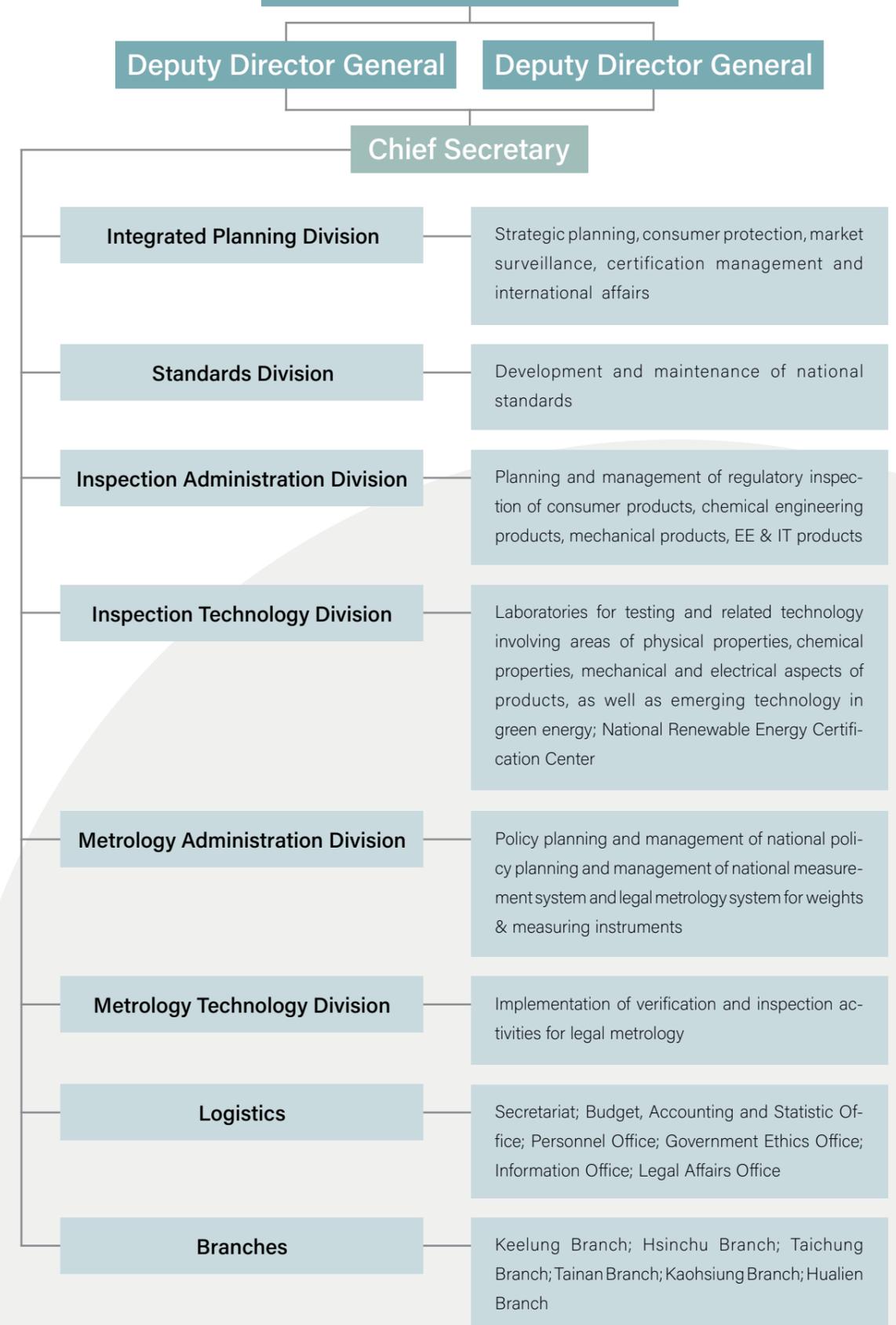


WHERE WE ARE

The BSMI has its head office in Taipei City, the capital of Taiwan, and 6 branches located in harbors, airports and major cities, providing a dense network of services nationwide.



Director General



Organization Chart by Activities

Chapter 3 Highlights of 2023

1. Creation of a safer consumer environment by enhancing the management of high-risk products and utilizing information technology



Toy drones



Large-scale indoor playsets



Water filters



Portable air conditioners



Horizontal freezers

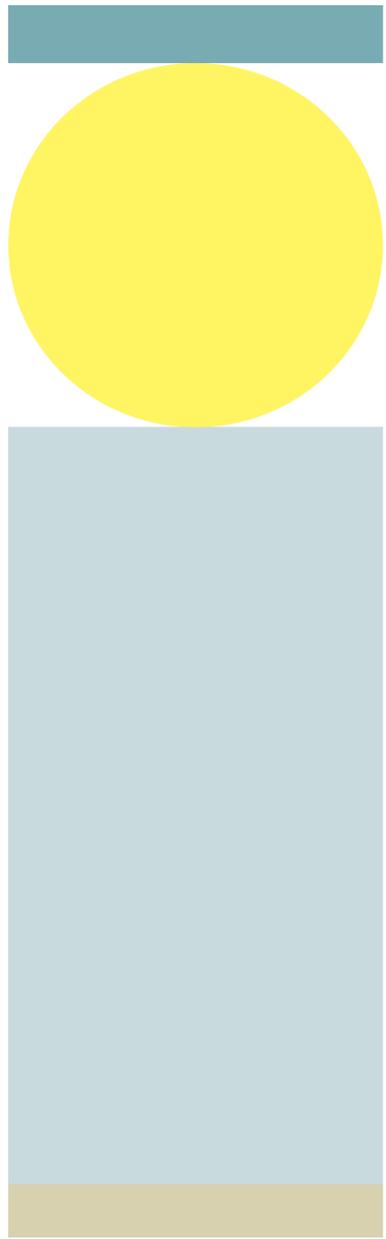
To safeguard consumer rights and uphold the safety of citizens' lives and property, the BSMI reinforced its commitment to consumer and environmental protection by adopting six technical regulations and amending measures to meet contemporary societal needs and technological advancements in 2023. These regulations targeted products including water filters, drones under 2 kilograms, large-scale indoor playsets, toy drones, portable air conditioners, and horizontal freezers, aiming to enhance product safety and quality. Additionally, BSMI revised 26 inspection standards across various categories like electric toys, cement, and power distribution products to improve safety and quality.

► Newly regulated products in 2023

The publication of the “Common Toys Hazards Handbook” was particularly noteworthy. In an era where new toys emerge rapidly, this handbook serves as an important resource for parents and caregivers. It highlights potential dangers associated with trending toys, empowering consumers with knowledge to make safer choices for children, thus preventing accidents and enhancing child safety during playtime.

To tackle challenges arising from the surge in online shopping, such as seller identification and the sale of non-compliant products, BSMI implemented measures to ensure safety of product sold online. This includes collaborating with e-commerce platforms to ask sellers to disclose regulatory compliance information, with non-compliance resulting in listing prohibition. In 2023, BSMI launched a pilot project across eight platforms to evaluate the compliance of online-sold regulated products. The project assessed a number of criteria, such as the platforms’ authentication mechanisms, management of non-compliant sellers, staff training, and consumer complaint handling. One B2C platform notably excelled in these criteria.

Furthermore, BSMI utilized web crawler technology to identify and remove listings without the Commodity Inspection Mark on major e-commerce platforms, leading to the removal of 15,920 non-compliant listings in 2023. This action targeted products based on their potential consumer risks. By proactively monitoring high-risk sellers, BSMI demonstrates its commitment to evolving regulatory practices to ensure consumer safety and respond to the trends of the digital marketplace.



2. Development of national standards for net zero emission and consumer safety to support national policies and meet demands of stakeholders

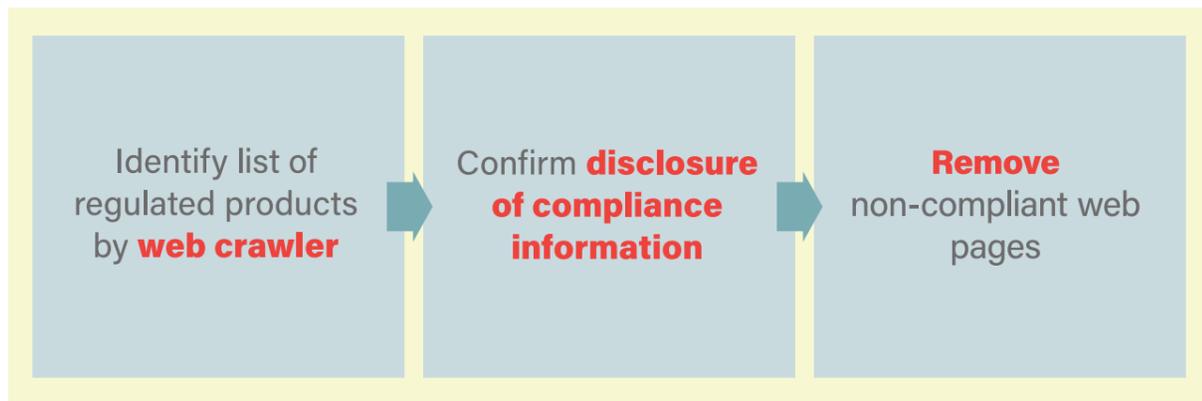
In 2023, the BSMI made significant strides in standardization to support Taiwan’s national policies, such as the “2050 Net-Zero Emissions,” the “5+2 Industry Innovation Plan,” and initiatives for comprehensive care across all age groups. A total of 264 standards were developed or revised across a wide range of sectors including renewable energy, electric vehicles, robotics, textiles, and childcare products, demonstrating a broad commitment to technological advancement and sustainability.

Notably, BSMI focused on the development of national standards (CNS) for renewable energy technologies, completing 84 standards between 2022 and 2023. These efforts are aligned with Taiwan’s push towards renewable energy sources like wind, photovoltaic power generation, and energy storage systems. In the realm of electric vehicles (EVs), 12 new CNS were developed in 2023, aimed at enhancing the safety and quality of Electric Vehicle Supply Equipment (EVSE) and aligning with international trends on EV infrastructure and communication interfaces.

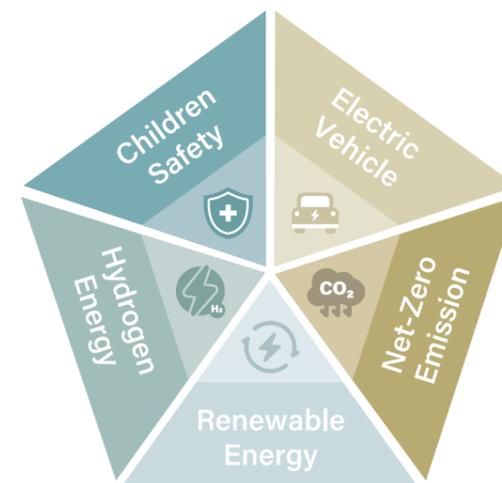
Hydrogen energy, recognized for its clean and versatile potential in energy, industry, and transportation sectors, saw the development of 13 CNS. These standards cover a wide range of hydrogen energy applications, from generators and refueling connection devices to fuel tanks and safety considerations, paving the way for the growth of the domestic hydrogen energy industry chain.

BSMI also revised standards related to children’s safety and health, updating CNS for toy safety, childcare articles, and public play equipment. These revisions reflect the BSMI’s ongoing commitment to adapting to new design advancements and ensure safety for children’s products.

Through these comprehensive standardization initiatives, BSMI aims to build a sustainable, energy-efficient, and safe environment for industrial development and consumer protection. Our efforts are crucial in achieving Taiwan’s 2050 net-zero emissions target and in supporting the health and safety of its population across all age groups, demonstrating a forward-looking approach to environmental management and technological innovation.



▲ Process for using web crawler to identify non-compliant products sold online



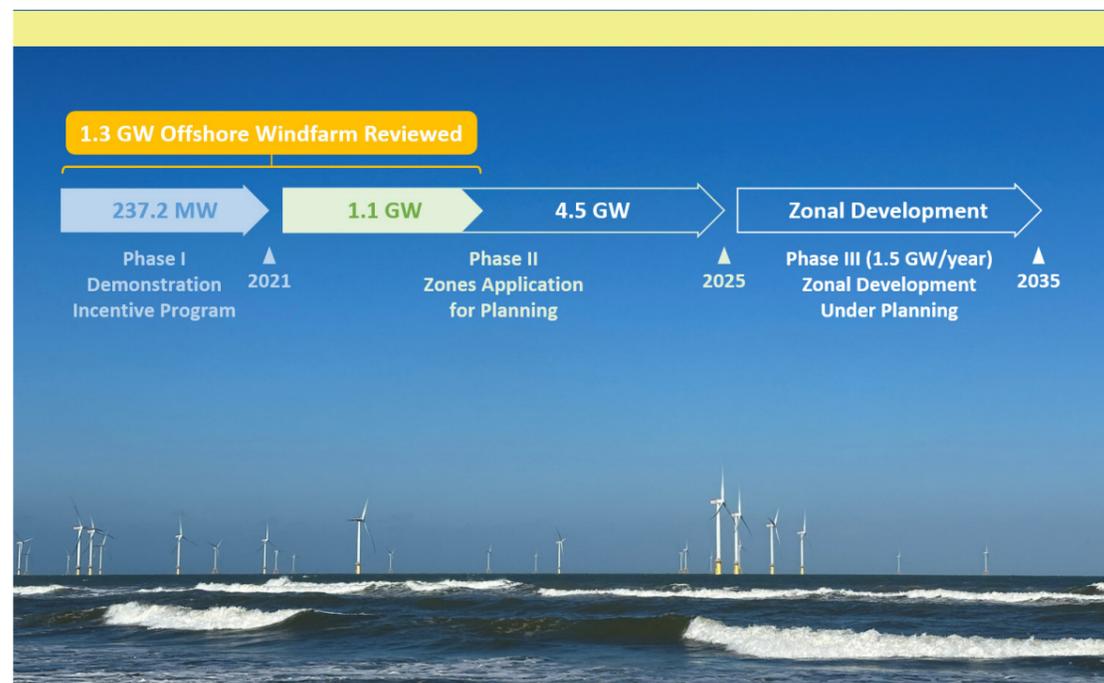
▲ Focus of standardization activities



3. Expansion of testing and certification capacities in green energy sector to accelerate the industry's transition to net-zero

(1) Project certification on offshore wind farms

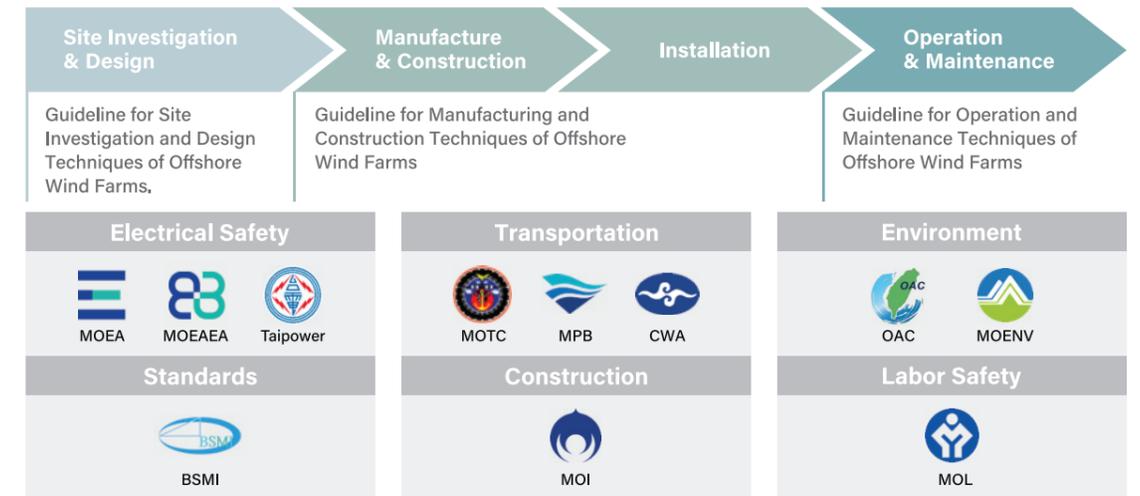
In 2023, the BSMI significantly advanced Taiwan's offshore wind energy sector, which is crucial for the country's shift towards renewable energy and sustainability. A key initiative was the enhancement of the project certification scheme for offshore wind farms, focusing on resilience to natural disasters like typhoons and earthquakes. With an amendment to the "Guideline for the Review of Offshore Wind Farm Project Certification" on October 16, the BSMI refined the review process to ensure the safety and quality of these projects. By year-end, certification were completed for 4 wind farms, adding 1.3GW to Taiwan's renewable energy capacity.



▲ Progress of Taiwan's offshore wind farm project certification

Additionally, on February 13, BSMI introduced three guidelines to support offshore wind farm development, covering site investigation, manufacturing, and operation. These documents aim to accelerate Taiwan's wind engineering technology, promote local industry growth, and reduce fossil fuel reliance.

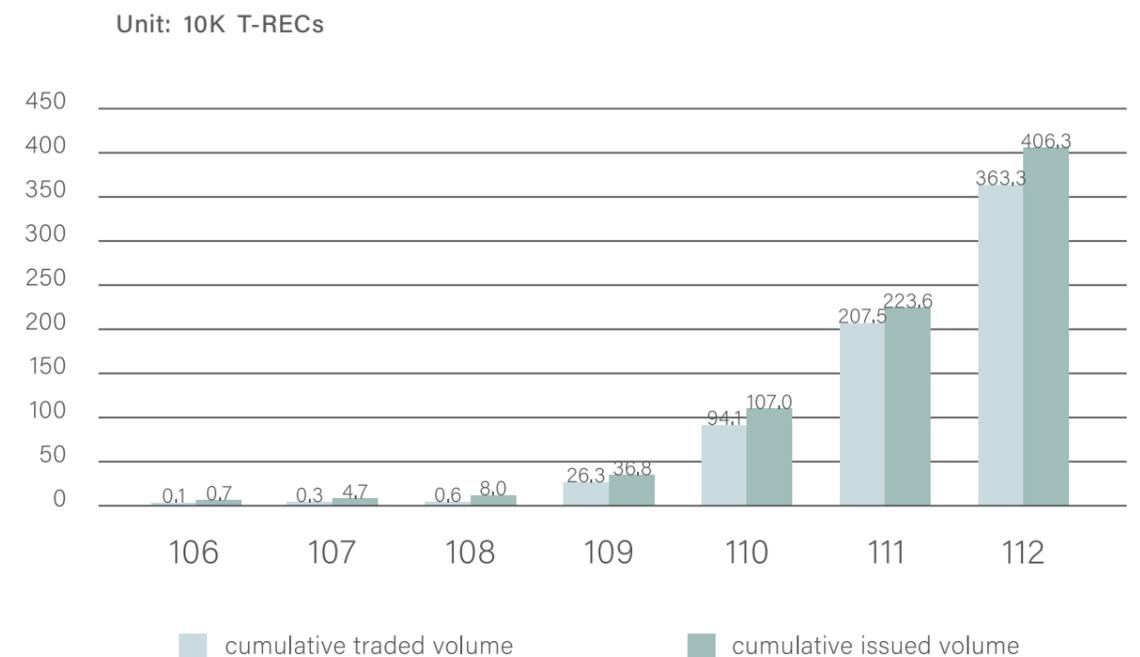
Central to the BSMI's strategy was strengthening local capacity for producing and testing wind turbine components. Advanced testing facilities now offer evaluations crucial for the domestic supply chain, improving technical expertise and ensuring components meet global standards. This initiative boosts Taiwan's competitiveness in the global market and supports the sustainable growth of its renewable energy sector, highlighting BSMI's pivotal role in enhancing Taiwan's energy resilience and sustainability.



▲ Guidelines for offshore wind farms techniques, including site investigation, design, manufacturing, construction, installation, operation and maintenance techniques

(2) Enhancing the functionality of the renewable energy certificate (T-RECs) trading platform to meet the green transformation needs of industries

In 2023, the Taiwan Renewable Energy Certification Center (TREC) under the BSMI significantly advanced the renewable energy landscape in Taiwan. A key achievement was the issuance of 3,519,211 T-RECs. These certificates are essential for verifying that electricity has been produced from renewable sources, facilitating the recognition of renewable energy production and allowing businesses and consumers to demonstrate their green energy consumption.



▲ Numbers of T-RECs issued and traded

Several programs were launched to match the supply and demand of green energy. In collaboration with TaiPower, a state-owned electric power utility that is primarily responsible for the generation, transmission, and distribution of electricity in Taiwan, a “Small-scale Green Energy Bidding Pilot Program” was implemented to help business procure green electricity. The “Green Lease Program” enables property owners to acquire green energy and T-RECs for their tenants, who typically lack an independent electricity registration number. Additionally, this program simplifies the process for tenants to buy green electricity, offering them a more straightforward and flexible approach. Furthermore, the Corporate Power Purchase Agreement (CPPA) initiative promoted direct agreements between renewable energy producers and corporate consumers, securing long-term, sustainable energy supplies for businesses.

TREC also collaborated with the Center for Resource Solutions (CRS) to organize the Renewable Energy Market™ Asia 2023 Conference, a pivotal event for sharing insights and innovations in the renewable energy sector. This conference underscored Taiwan’s role as a hub for renewable energy dialogue and development, bringing together stakeholders from across the Asia-Pacific region and beyond.

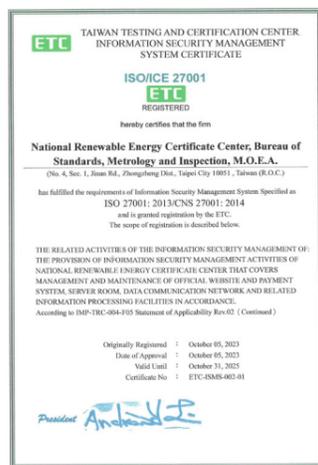
TREC’s engagement with international partners, including the United States Environmental Protection Agency (US EPA), facilitated the exchange of ideas and best practices in renewable energy policies and technologies. These interactions have been key to progressing Taiwan’s renewable energy strategies and enhancing global partnerships.



▲ Jennifer Martin, Executive Director of CRS, delivering opening remark in REM Asia 2023



▲ Meeting with US EPA on renewable energy cooperation



Moreover, TREC’s commitment to data security and integrity was highlighted by its achievement in obtaining ISO/IEC 27001 certification for its information security management system. This certification is a testament to TREC’s dedication to protecting sensitive information and ensuring the reliability of its data management processes, which is crucial in the context of renewable energy certification and trading.

◀ Information security management system certification issued to TREC

4. Implementation of voluntary product certification (VPC) programs for emerging technology products to assist industrial development

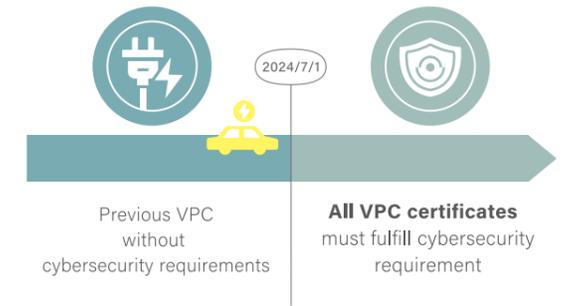
(1) Electric vehicle supply equipment (EVSE)

In response to cybersecurity concerns associated with cyber-connected EVSE, the BSMI has introduced cybersecurity requirements into its VPC Program for EVSE. Effective since January 13, 2022, the program initially covered safety, electromagnetic compatibility, and communication protocols. On June 29, BSMI expanded these requirements to include cybersecurity. The “Technical Specifications for Cybersecurity Testing of Electric Vehicle Supply Equipment” was published as the certification standard for EVSE’s cybersecurity requirements, focusing on physical security, system security, firmware updates, communication security, and identity authentication.

With the new requirements effective from June 29, BSMI has provided a one-year transitional period until July 1, 2024, for existing VPC certificate holders to comply by having their products tested against these cybersecurity standards and re-issuing their VPC certificates. This initiative underscores BSMI’s commitment to enhancing the cybersecurity of Taiwan’s EV charging infrastructure.



▲ Briefing session of voluntary certification scheme of EVSE



▲ BSMI included cybersecurity certification in the VPC scheme of EVSE

(2) 5G smart poles

To accelerate the development of 5G smart poles across Taiwan, the BSMI has significantly advanced its regulatory framework by updating 21 technical specifications related to 5G smart poles. These comprehensive updates cover a broad range of criteria, including structural safety, environmental reliability, electrical safety, and information security, among others, to ensure the deployment of high-quality and secure 5G infrastructure.

On August 31, BSMI further demonstrated its commitment to this technological advancement by launching the VPC Program for 5G smart poles to bolster industry growth and ensure the safety and quality of 5G infrastructure before installation by county governments. BSMI’s efforts were showcased at the Smart City Summit & Expo in Taipei and Kaohsiung, highlighting the role of 5G smart poles in smart city development through interactive displays.

Through ongoing collaboration with industrial alliances to refine technical standards and requirements, BSMI is driving the domestic smart pole industry forward. This concerted effort not only supports the adoption of cutting-edge technologies but also contributes to economic development, underscoring BSMI's vital role in facilitating Taiwan's transition to smart, connected urban environments.



◀ 5G smart pole site

Additionally, PV inverters were brought under the VPC Program's umbrella, with TaiPower requiring VPC certification for grid connection, aligning with the "Technical Requirements of Grid Connection for Renewable Energy Power Generation Systems."



▲ The grand opening ceremony of the MW-level smart inverter laboratory

(3) PV modules and PV inverters

Aligning with the government's goal to achieve a 20 GW renewable energy capacity by 2025, the BSMI has made significant efforts in enhancing the solar energy sector's standards and reliability. BSMI developed the "Technical Specifications for Taiwan High-Efficiency Solar Photovoltaic (PV) Module" and integrated PV modules into the VPC Program. The vast majority of domestic projects utilizing these certified modules as they are eligible for a 6% Feed-in Tariff (FIT) rate. Consequently, the registered solar module capacity on the Solar Photovoltaic Module Registration Platform has reached 9.2 GW, with domestic manufacturers securing 100 VPC certificates, including 20 for M10 cells, by the end of December 2023.

To further ensure the structural safety of PV systems, BSMI evaluated and designed the testing chamber for conducting acid salt spray corrosion tests on support structures and large-format PV modules, allowing more comprehensive evaluation of construction quality and material compatibility.

A notable achievement in 2023 was the establishment of Taiwan's first MW-level smart inverter testing laboratory in collaboration with the Taiwan Electric Research & Testing Center. This facility provides local testing for electrical safety, grid connection, electromagnetic compatibility, and cybersecurity of PV power generation equipment, especially for high-capacity smart inverters. This initiative promotes the PV industry's growth by offering domestic testing solutions, saving businesses the time and costs associated with overseas testing.



▲ Testing equipment of smart inverter

(4) Large-scale battery energy storage system

On November 14, 2022, the BSMI made significant progress in the regulation of Battery Energy Storage System (BESS) sites by incorporating them into the VPC Program. Employing the "Technical Specification for Certification of Outdoor BESS Site" based on IEC 62933-5-2:2020, BESS sites are now subject to comprehensive electrical and fire safety standards.

The VPC Wprogram for BESS encompasses a three-stage process:

Design review:

BESS owners must obtain BSMI approval on their site designs before starting construction, ensuring compliance from the outset.

Site review:

Post-construction, sites undergo safety assessments and testing by third parties. Successful assessments lead to BSMI's "Site Review" and subsequent VPC certificate issuance.

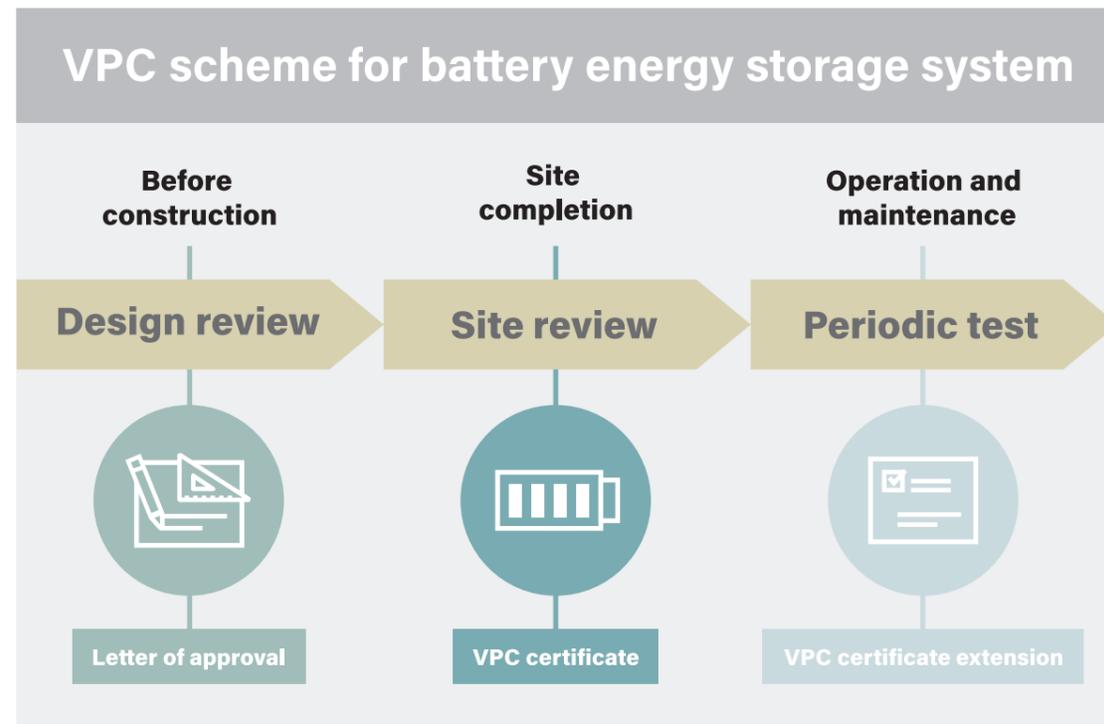
Periodic testing:

Every two years, BESS sites are reassessed to ensure ongoing safety and functionality, addressing potential system degradation.

By December 27, seven BESS sites had cleared the design review, and one site had been awarded the VPC certificate. These milestones are critical in enhancing public safety and promoting the BESS industry's development, showcasing BSMI's commitment to upholding high standards in energy storage system safety and reliability.



▲ Ceremony of the safety testing laboratory for energy storage system



▲ Certification process for BESS sites under VPC

5. Contribution to sustainable development and livelihood with enhanced measurement capacity

As EV adoption accelerates, driven by global efforts to achieve net-zero emissions by 2050, the need for precise and reliable EV charging infrastructure becomes paramount. This is where legal metrology, the science of measurement and its application in law, comes into play, specifically targeting EVSE systems.

From January 1, 2023, EVSE have been subjected to legal metrology control. This regulatory action ensures that when EVSE are used in transactions—where consumers are charged based on the amount of electricity dispensed—the equipment meets stringent metrological standards for accuracy. The "Technical Specification for the Verification and Inspection of Electric Vehicle Supply Equipment" sets the framework for this process. Verification ensures that each EVSE conforms to predefined standards of measurement accuracy before it is installed for public use. The proposed amendment by the BSMI on November 2, 2023, to extend the validity period of verification to 8 years, aligns with international practices and OIML G 22:2022 issued by the International Organization of Legal Metrology.

BSMI actively engaged with stakeholders through visits, briefings, and field exercises in 2023 to promote EVSE verification and ensure procedural consistency. These efforts aim to enhance EVSE measurement management, protecting consumer rights.



▲ On-site electric energy metering verification

Furthermore, BSMI commemorated the World Metrology Day 2023 with a workshop titled “Measurements Supporting Sustainable Development of the Economy and Livelihood” on May 19 in response to the annual theme of “Measurements Supporting the Global Food System” announced by the International Bureau of Weights and Measures.

The workshop highlighted the role of metrology in sustainable development, including food systems, new energy sources, and zero-waste manufacturing. The workshop, featuring three expert speakers and attracting 150 participants, discussed solutions to overcome sustainable development challenges.

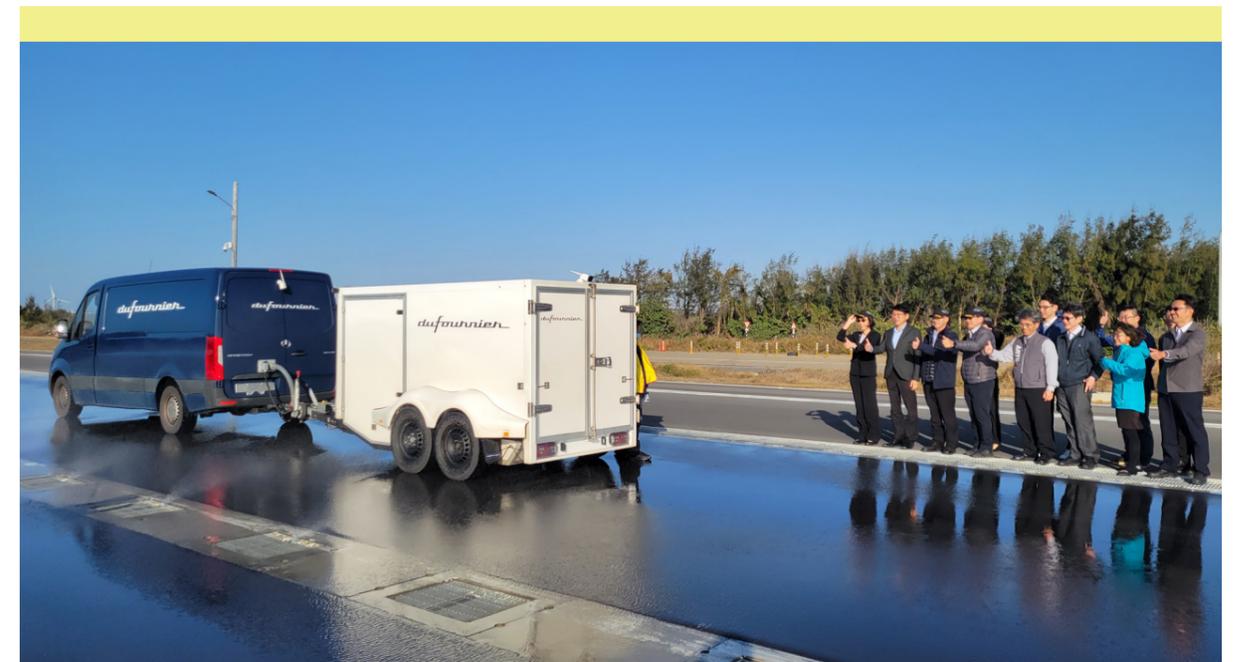
Additional activities across Taiwan, organized by local metrology associations, engaged the community through hikes, seminars, and exhibitions to raise the awareness of metrology’s diverse contributions to sustainability. These achievements underscore BSMI’s commitment to advancing electric mobility and metrology’s broader role in supporting sustainable development.



▲ Workshop on “2023 World Metrology Day-Measurements Supporting Sustainable Development of the Economy and Livelihood” on May 19

6. Advancement of testing and certification competence of energy saving tires to promote environmental sustainability

From 2021 to 2024, the BSMI has been working on the “Project of Establishing a Performance and Safety Testing and Certification System for Energy-Saving Tires,” aiming to develop domestic capabilities for testing “wet traction,” “rolling resistance,” and “noise measurement” of tires. The Automotive Research & Testing Center was tasked to implement this project. By 2023, significant milestones were achieved with the completion of certification capabilities for rolling resistance and wet traction tests. This advancement also helped domestic tire companies expand their market to the Middle East. BSMI plans to further enhance tire management systems to boost consumer protection and industry growth.



▲ Wet traction test

Additionally, on October 17, BSMI hosted an international seminar on energy-saving tire performance and safety technology. This event served as a platform for sharing knowledge and experiences among experts from both Taiwan and abroad, promoting industry development and setting the direction for the future of energy-saving tires. These efforts underscore BSMI’s commitment to advancing the tire industry while ensuring product safety and performance.

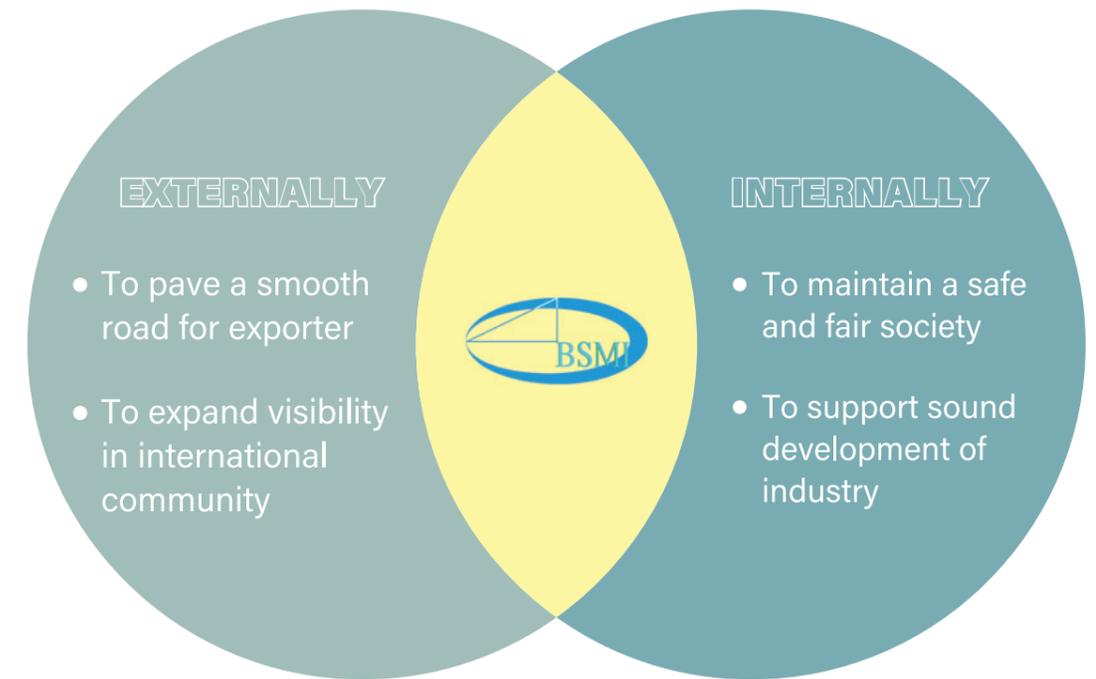


▲ Rolling resistance measurement system

Chapter 4

International Cooperation

The different roles that BSMI takes in our national quality infrastructure have led to a range of international cooperation activities, serving both domestic and global objectives. Domestically, we engage in information exchanges, sharing of best practices, and expert collaborations with partner countries to uphold our quality infrastructure for safety, fairness, and promote sustainable industrial development. Externally, we spare no efforts to facilitate export of our products by reducing unnecessary conformity assessment costs. We also participate actively in the limited number of international organizations of which we are a member to enhance our visibility in the international community in this area.



▲ International cooperation strategy of BSMI

1. Bilateral cooperation

At the bilateral level, BSMI's international cooperation activities primarily involve negotiating cooperative documents, convening formal meetings with counterpart organizations, holding joint workshops, and providing training courses. The subjects covered are diverse and may extend beyond BSMI's jurisdiction to include activities of other government bodies. The significant activities conducted throughout the year are highlighted below.

(1) Joint activities

Joint workshops hold significant value as they provide a platform for focused discussions on topics of mutual interest to BSMI and partner countries. These workshops facilitate the exchange of experiences across a broad spectrum of areas and help establish connections between stakeholders for further cooperation. Introduction to the regulatory systems by way of workshops makes it easier for exporters to understand technical regulations of the target market and complete conformity assessment procedures in a more efficient way. There were several featured events in 2023 as listed below.

- **India - The 1st and 2nd working-level meetings for the implementation of MRA**

In 2022, India and Taiwan signed a Mutual Recognition Agreement (MRA), constituting a framework agreement spanning four phases aimed at promoting mutual recognition of factory inspection reports and product testing reports. To further advance the MRA, the BSMI and the Bureau of Indian Standards (BIS) convened two working-level meetings in January and June 2023. At these meetings, both sides exchanged information on mandatory product inspection schemes and identified potential product scopes of cooperation.



▲ The first working-level meeting



▲ The second working-level meeting

- **Malaysia - Information exchange on TBT enquiry point**

The BSMI collaborated with the Department of Standards Malaysia (JSM) to exchange information on standardization, accreditation, and conformity assessment areas. In May 2023, the BSMI and JSM held a virtual meeting to share experiences in operating Technical Barriers to Trade (TBT) enquiry points.



▲ Information exchange on TBT enquiry point in May 2023

- **U.S. CPSC - Safety requirements for battery and lithium-ion battery products**

Under the MoU on consumer product safety matters signed in 2004, the BSMI and the Consumer Product Safety Commission (CPSC) collaborate regularly to organize joint activities. On June 30, the "Consumer Product Safety Training Seminar: U.S. - Taiwan Safety Requirements for Battery and Lithium-Ion Battery Products" took place. The seminar provided an overview of battery safety regulations, injury data collection systems, and incident case studies in the United States, Japan, and Taiwan.



▲ Consumer product safety seminar in June 2023

- **Indonesia - Training on type approval test of residential water meters**

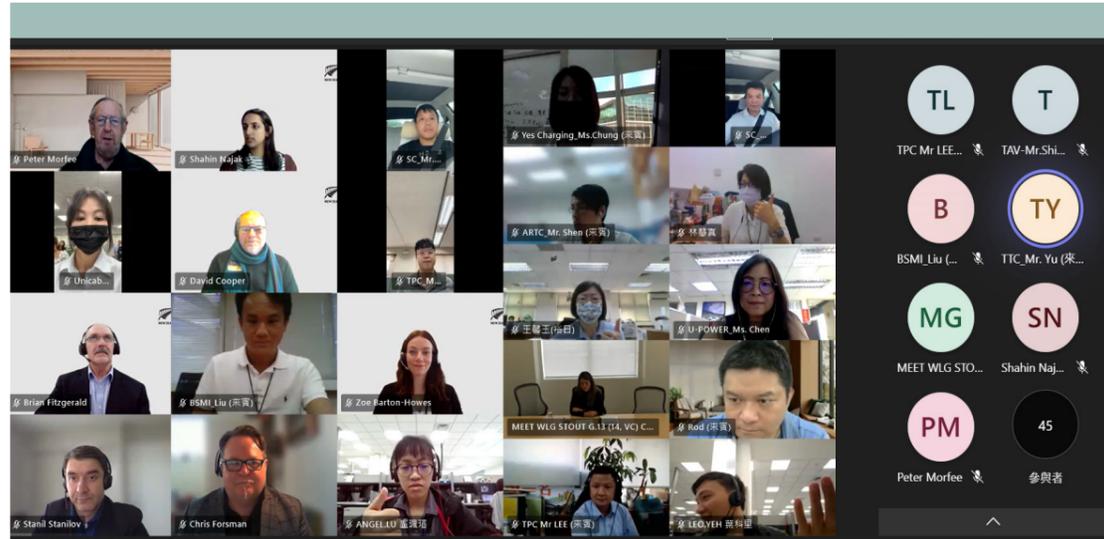
The BSMI collaborated with the Directorate of Metrology (DoM), Directorate General of Consumer Protection and Trade Compliance, Ministry of Trade of Indonesia, to conduct a 4-day online training course on type approval tests for residential water meters in July 2023. 16 experts from the DoM participated in this event and acquired knowledge on the principles of test methods for residential water meters specified in OIML R 49.



▲ Online course for type approval test of residential water meters

● **New Zealand – Joint webinar on electric vehicle supply equipment**

The 2023 Electric Vehicle Supply Equipment (EVSE) joint webinar was held on July 12th, 2023, to commemorate the 10th Anniversary of the ANZTEC Agreement. During this webinar, experts from New Zealand and Taiwan presented regulatory frameworks for EVSE and exchanged technical perspectives on EVSE certification. There were 58 participants. Both sides expressed their willingness to further enhance cooperation in this field.



▲ EVSE Joint Webinar in July 2023

● **U.S. NIST – Exchange views on standards and cybersecurity testing technology**

NIST Director, Dr. Laurie E. Locascio, led a team from the National Institute of Standards and Technology (NIST) to visit BSMI on September 18, and BSMI paid a return visit on October 10 to further the cooperation in the field of standards and cybersecurity testing. At these meetings, both parties discussed network information security-related standards, exchanged insights, and held discussions on topics such as O-RAN, electric vehicle charger security test cases, solar photovoltaic security test procedures and cases, and electric vehicle extreme fast charging (XFC) specifications.



▲ NIST visit to BSMI on September 18



▲ BSMI visit to NIST on October 10

● **The Philippines – Planning for capacity building and review of MRA in dialogue**

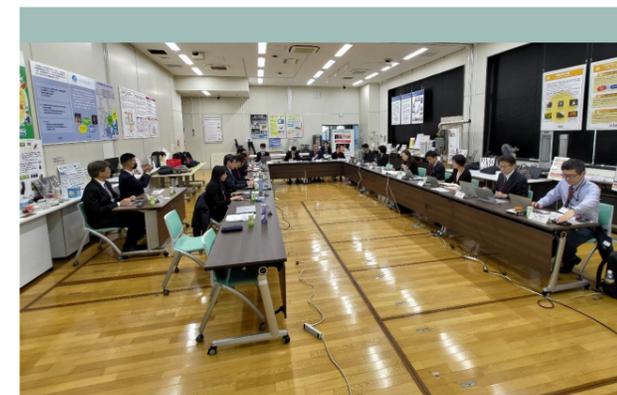
On November 8, BSMI visited the Bureau of Philippine Standards (BPS) to discuss future collaborative initiatives. At this meeting, a capacity building plan for 2024 was confirmed, which includes physical training in Taiwan on electric vehicle supply equipment, secondary batteries, and energy efficiency. Additionally, a video conference was planned for sharing experiences in standards development and the operation of WTO/TBT Enquiry Points.



▲ Group photo in BPS in November 2023

● **Japan – The 7th annual meeting on product safety**

Taiwan and Japan hold regular meetings on product safety under the Memorandum of Understanding (MoU) signed in 2016. The 7th Annual Meeting was convened in Tokyo, co-hosted by the Ministry of Economy, Trade and Industry (METI), the National Institute of Technology and Evaluation (NITE), and the BSMI, on December 7-8. During the meeting, both sides discussed policies related to the safety of products sold online, product incidents and recalls, newly regulated products, and the promotion of public awareness. Additionally, BSMI and NITE exchanged views on incident cases involving electric heaters.



◀ Annual meeting on product safety with Japan

(2) Implementation of mutual recognition arrangements (MRAs)

Taiwan has signed Mutual Recognition Agreements (MRAs) on conformity assessment results with eight countries, primarily covering electrical and electronic products. While MRAs with the United States, Canada, and Australia apply solely to the recognition of test reports, those with New Zealand, Singapore, and Japan are comprehensive, extending recognition to certificates. Testing laboratories or certification bodies are designated under the MRA frameworks, allowing products intended for export to the other contracting party to be tested locally, thereby saving time and costs for the industry.

Bilateral-MRAs

	Electronic Products	Electrical Products	Tyres	Number of Recognized CABs
USA	EMC Test Reports			USA : 70 TL* Taiwan : 67 TL
Canada				Canada : 15 TL Taiwan : 0
Australia	EMC Test Reports			Australia : 2 TL Taiwan : 0
New Zealand	EMC + Safety Test Reports + Certificates			NZ : 0 Taiwan : 53TL, 1 CB
Singapore				Singapore : 3TL, 1 CB* Taiwan : 12 TL, 2 CB
Japan				Japan : 14 TL, 1 CB Taiwan : 0 TL, 1 CB
The Philippines		EMC + Safety Test Reports		Philippines : 0 Taiwan : 2 TL, 1 IB*
India	Product scope and recognized conformity assessment bodies are under negotiation			

*TL- Testing Laboratory; CB- Certification Body; IB- Inspection Body

2. Multilateral cooperation

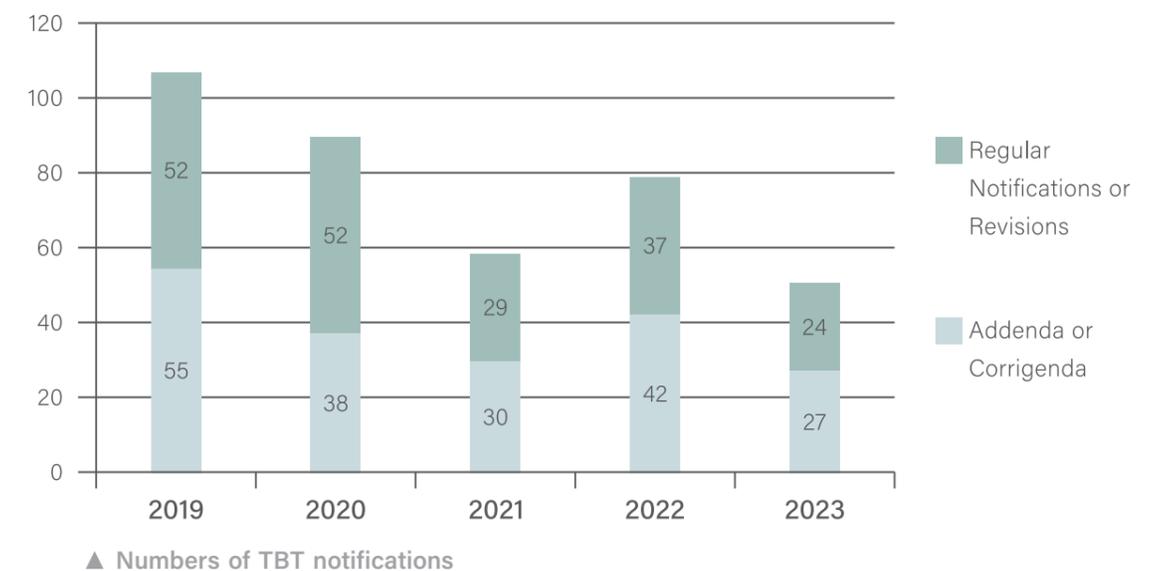
(1) Activities under WTO/TBT agreement

The BSMI operates the Technical Barriers to Trade (TBT) Enquiry Point in accordance with the requirements of the WTO Agreement on Technical Barriers to Trade. This Enquiry Point performs five main functions:

- a. Disseminating and translating TBT notifications circulated by the WTO Secretariat;
- b. Assisting regulatory authorities in submitting TBT notifications and responding to comments and inquiries from other WTO members and business operators;
- c. Assisting domestic stakeholders in providing comments on adopted or proposed measures by other WTO members and responding to their inquiries;
- d. Convening inter-agency meetings and coordinating views with different regulatory authorities on specific trade concerns; and
- e. Maintaining a domestic online TBT notification database.

In 2023, a total of 51 notifications were submitted, comprising 27 addenda or corrigenda and 24 regular notifications. To aid our business operators in minimizing trade barriers, six specific trade concerns were raised in WTO/TBT Committee meetings, encompassing chemical, steel, and food products.

The BSMI shared its regulatory experience in enhancing compliance of e-commerce products at the WTO/TBT thematic session titled "Conformity Assessment and E-commerce" in November 2023.



WTO/TBT notifications screening and alerting mechanism

To assist the domestic industry in staying informed about technical regulations and conformity assessment procedures in other countries and addressing export-related challenges, the BSMI has established a mechanism for screening WTO/TBT notifications since 2020. We conduct bi-monthly screenings of notifications submitted by the top 14 export destinations for Taiwan. These screened notifications are then sent to relevant industrial associations and regulatory authorities for evaluation and comments. In 2023, a total of 430 notifications were identified as having potential trade impact after the screening process, and 6 comments were made on measures proposed by India, Thailand, the United States, and others.

(2) Activities under APEC/SCSC

The BSMI is responsible for coordinating Taiwan's participation in activities of the Sub-Committee on Standards and Conformance (SCSC) of Asia-Pacific Economic Cooperation (APEC). Delegates from the BSMI actively participated in the two SCSC meetings held in Palm Springs and Seattle. During these sessions, the BSMI not only presented its proposed project on Electric Vehicle Supply Equipment, aimed at providing a landscape of current and future development of EVSE in the APEC and fostering capacity building opportunities through discussions on standards and conformity assessment, but also shared its regulatory experience in SCSC's e-labelling workshop and GRP policy dialogue.

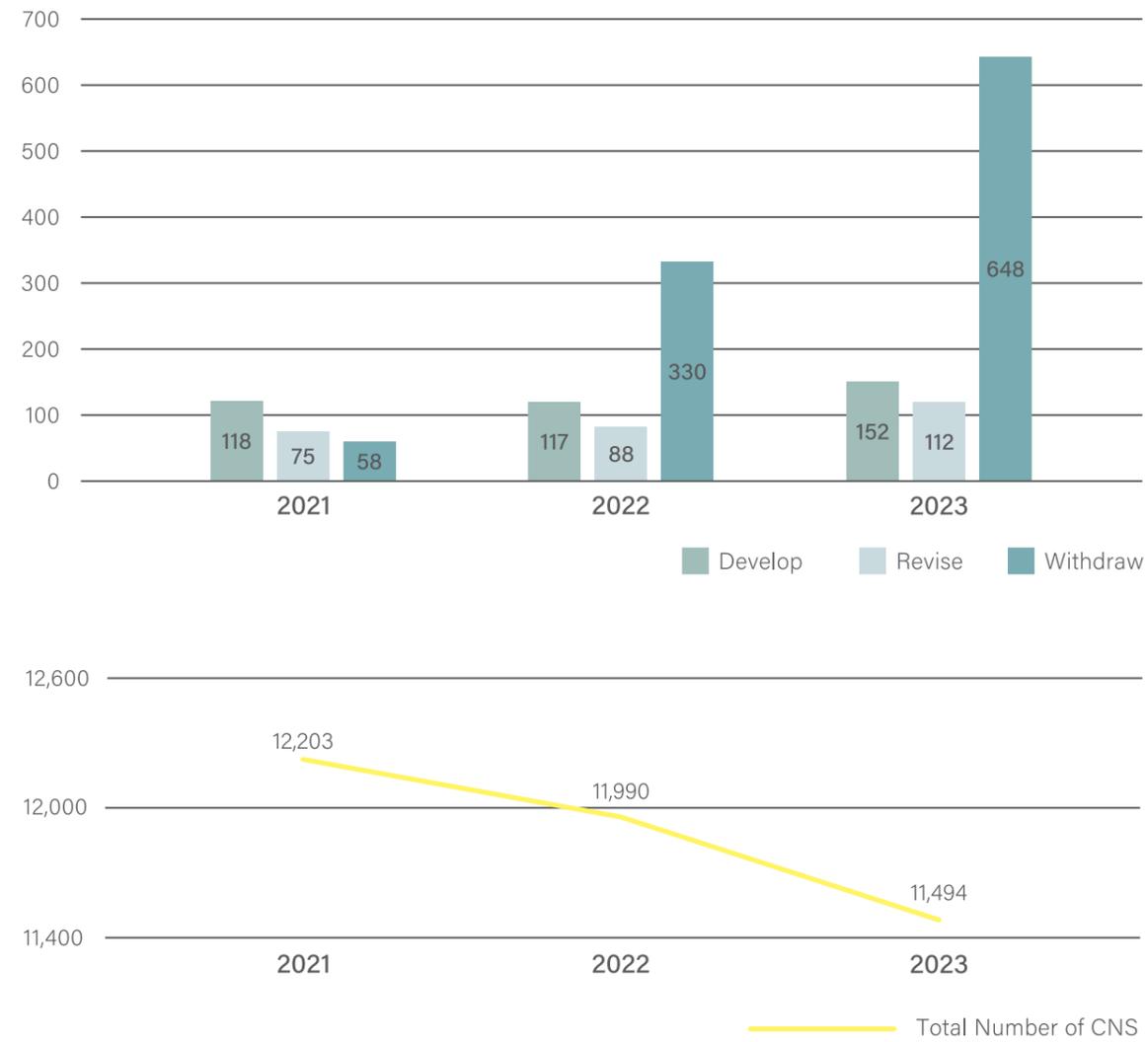


▲ APEC SCSC Good Regulatory Practice Policy Dialogue in February 2023

Chapter 5 Statistics

1. Standards (CNS)

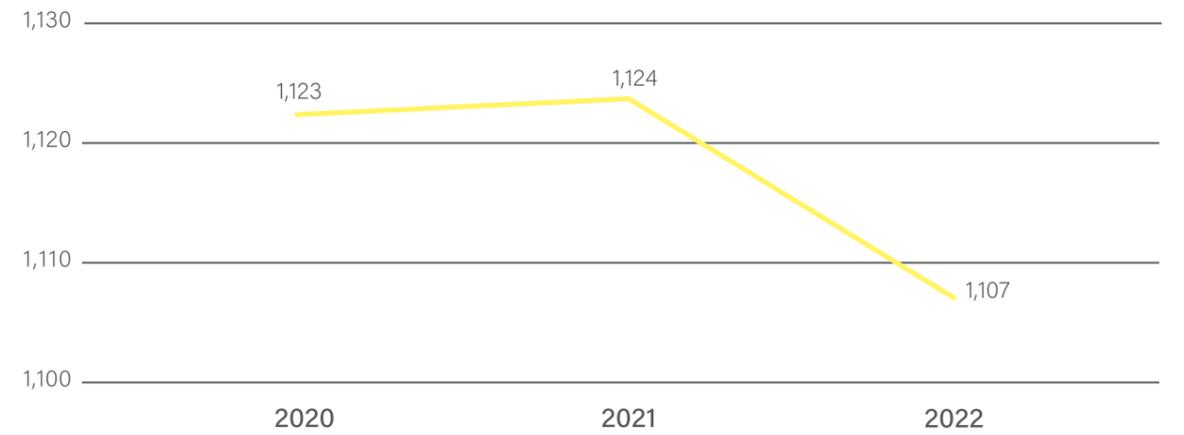
(1) Status of CNS



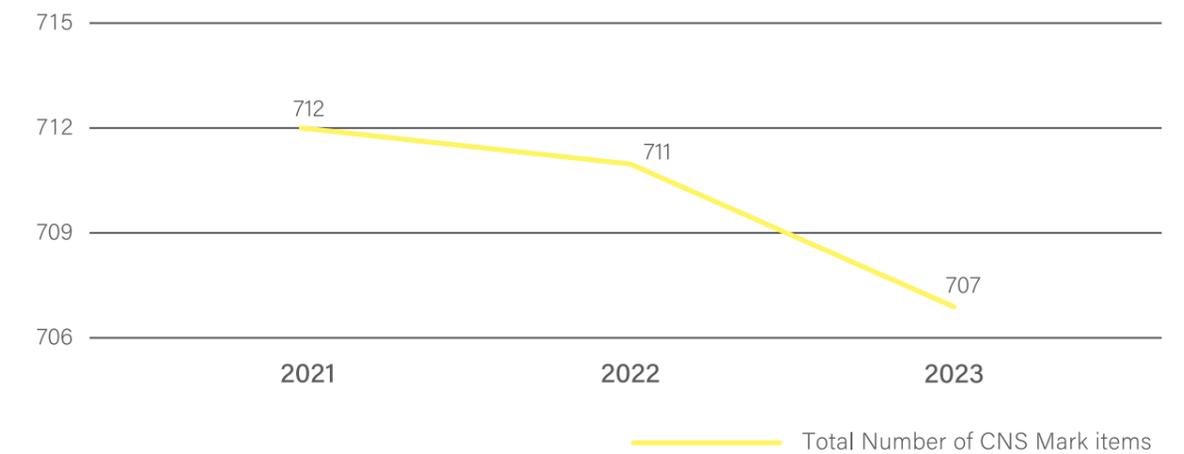
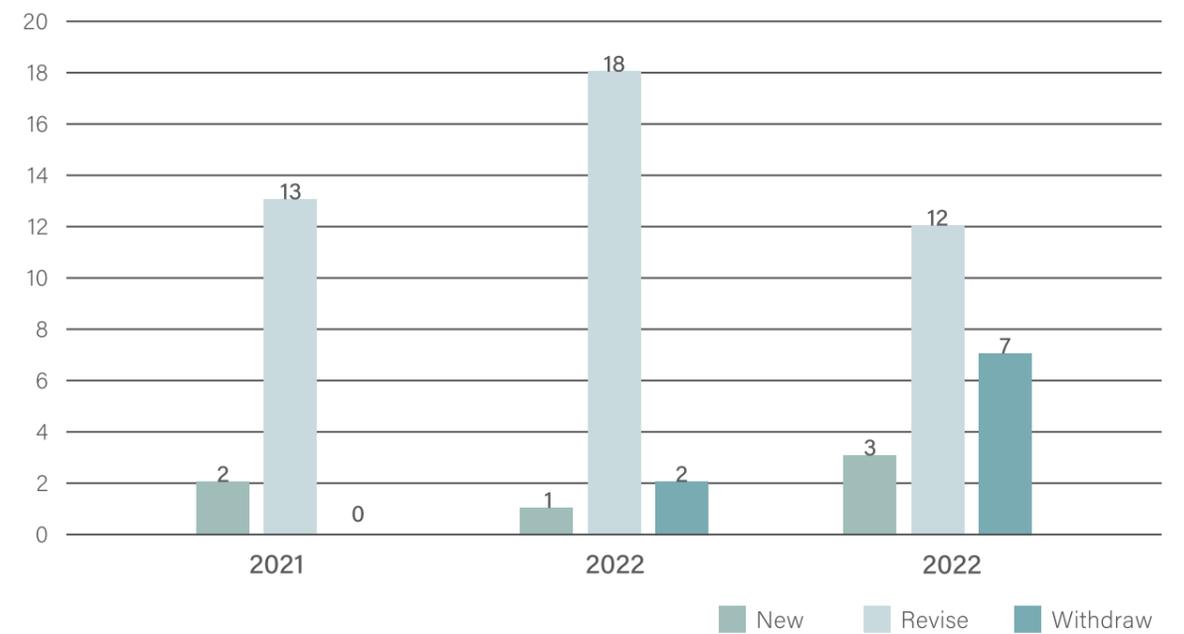
(2) Alignment of CNS with international standards

Number of CNS that has corresponding international standards (A)	Number of CNS aligning with international standards (B)	Rate of alignment (%) (B/A)
4,299	4,268	99.28%

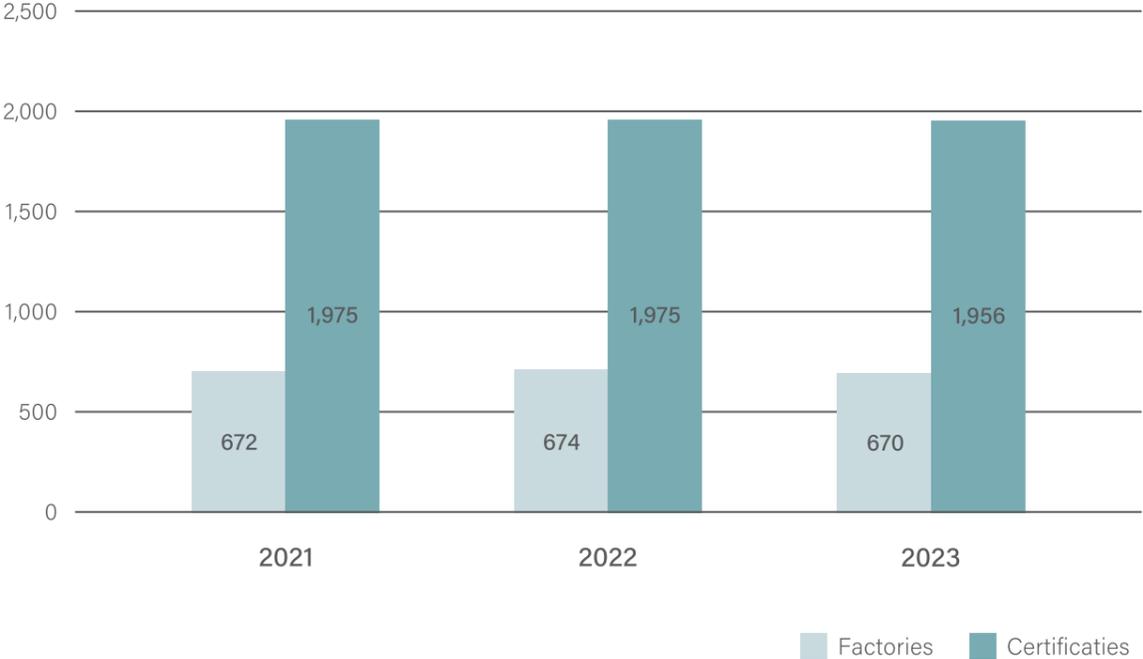
(3) Numbers of CNS referenced in mandatory technical regulations



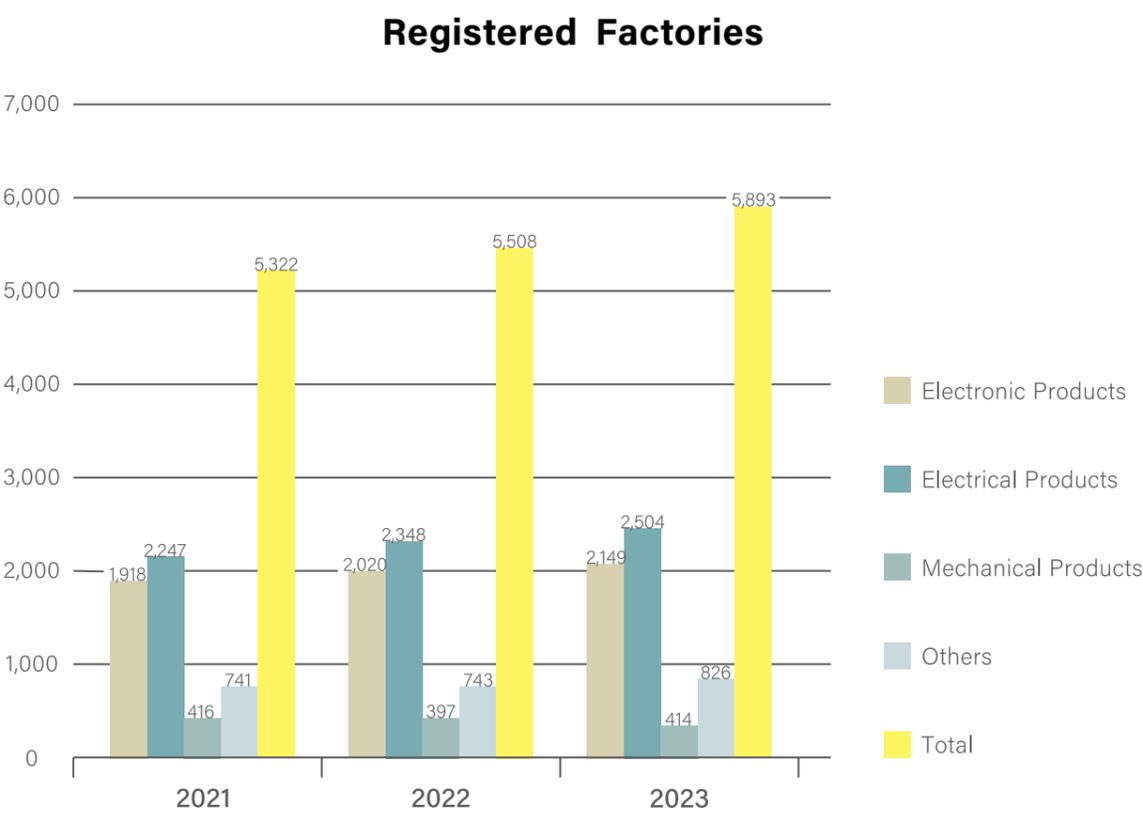
(4) Product items of CNS Mark



(5) Numbers of CNS Mark factories & certificates

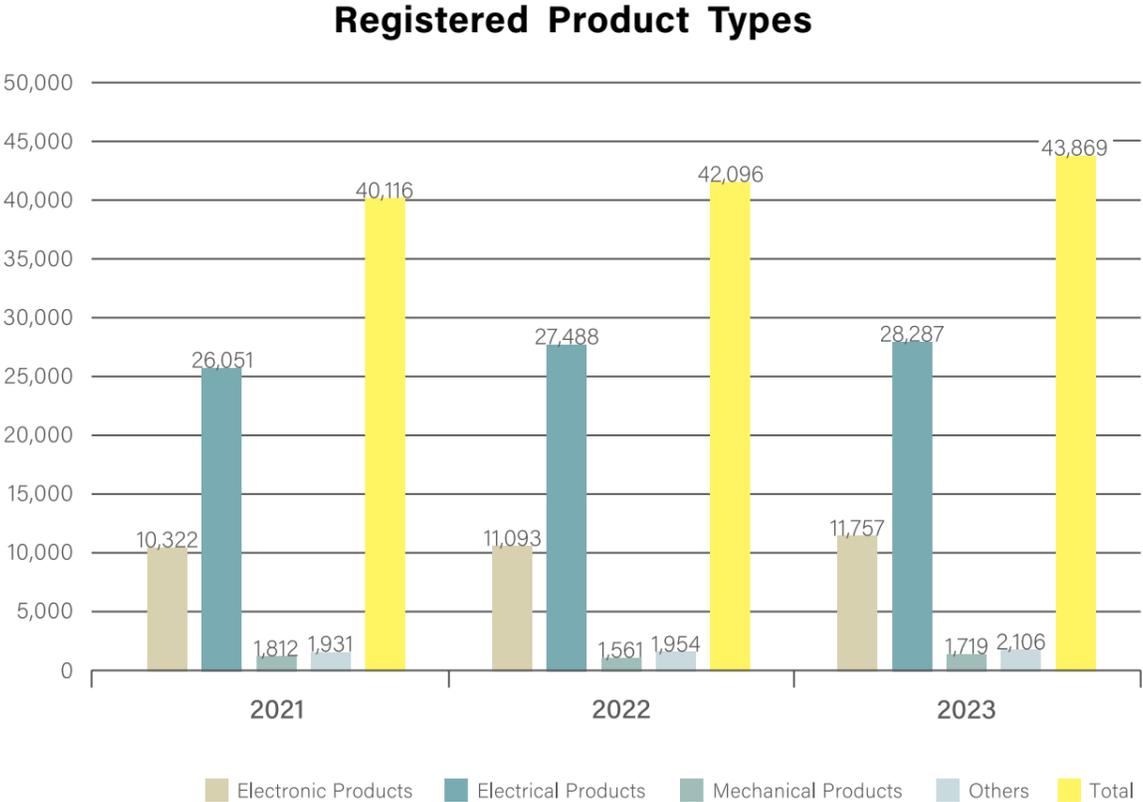
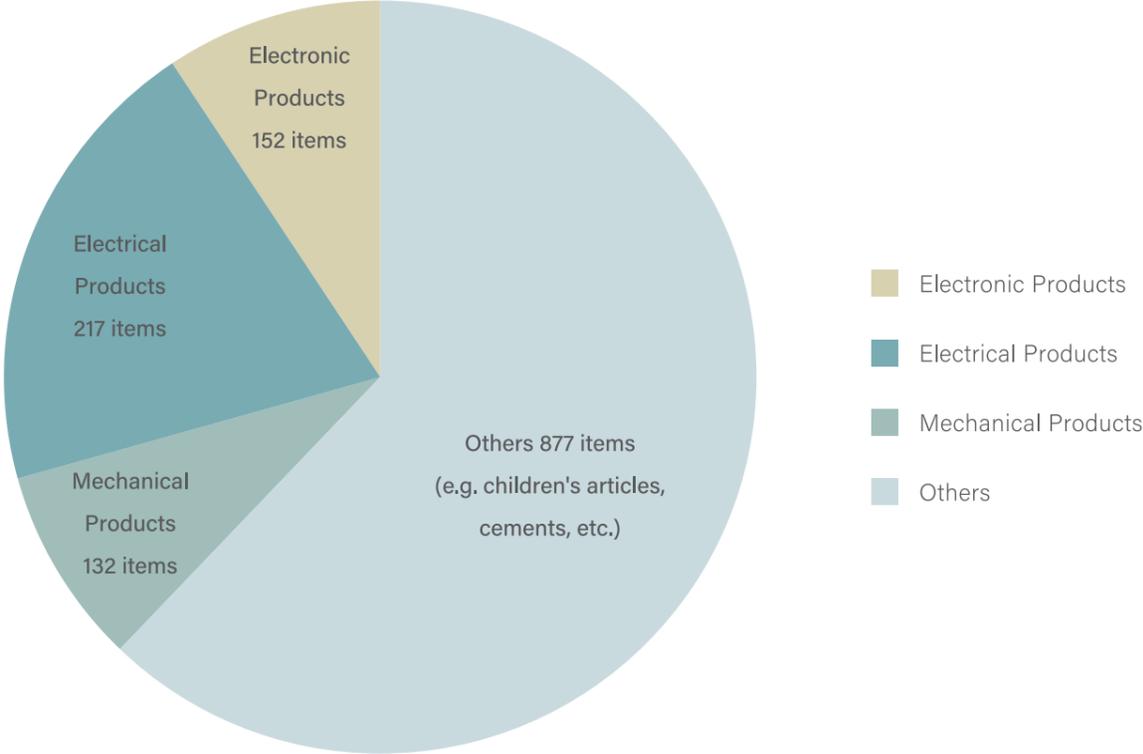


(2) Numbers for the registration of product certification (RPC)

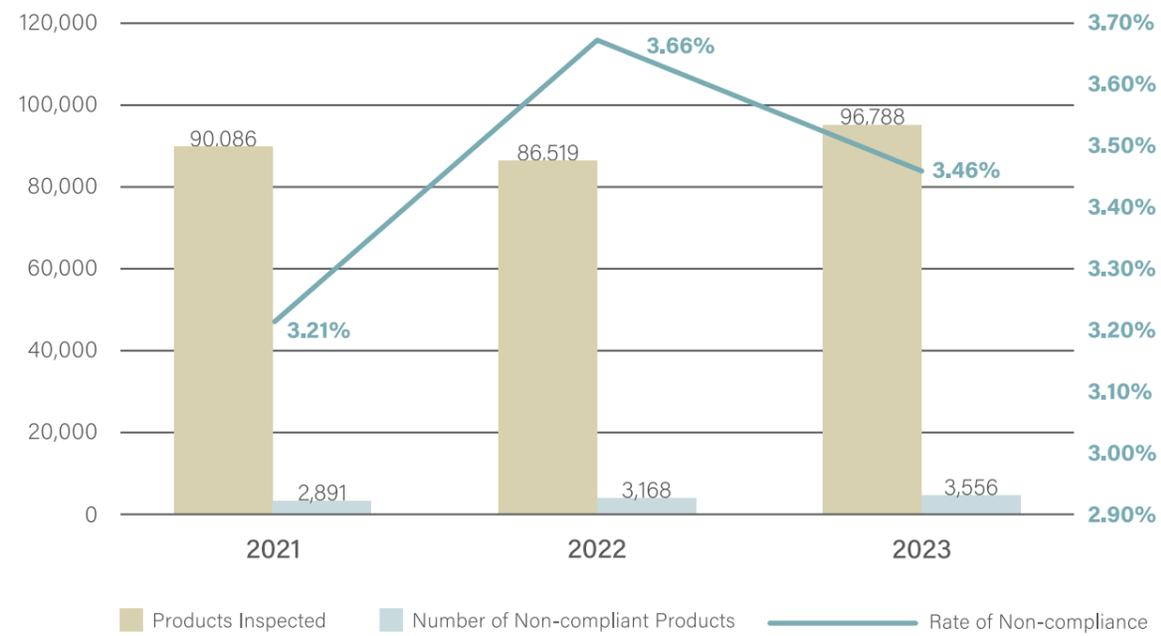


2. Consumer product policy activities

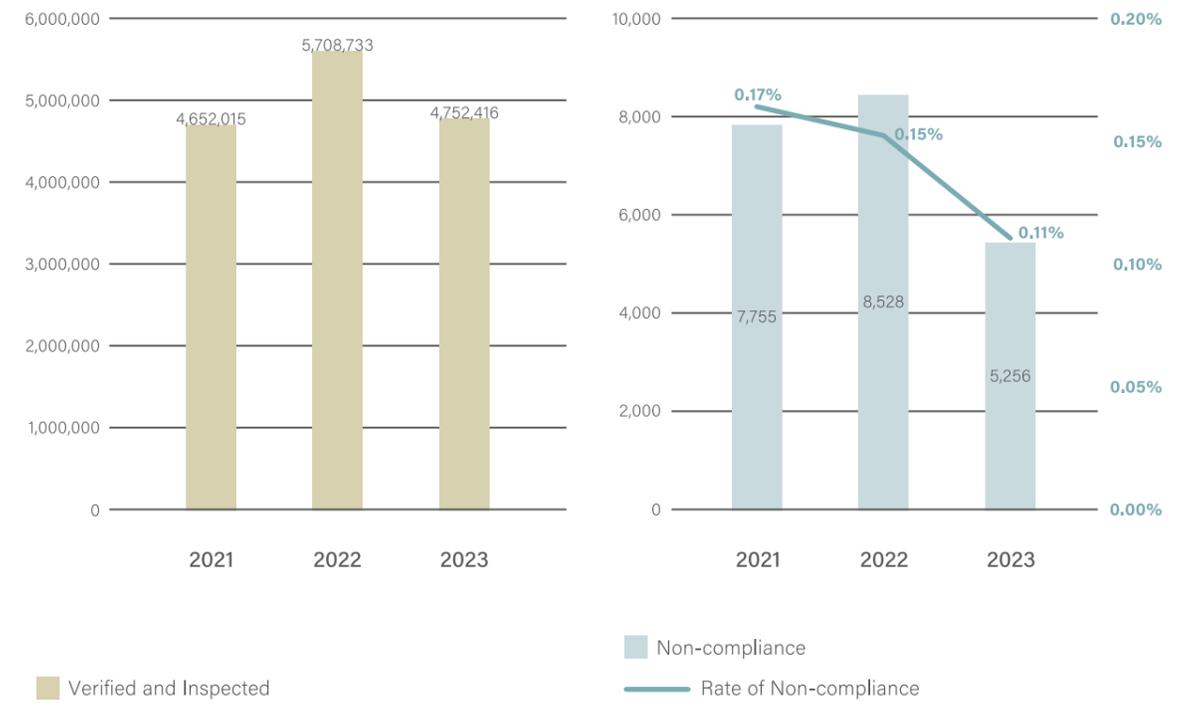
(1) Regulated products of BSMI



(3) Numbers of commodities under market inspection

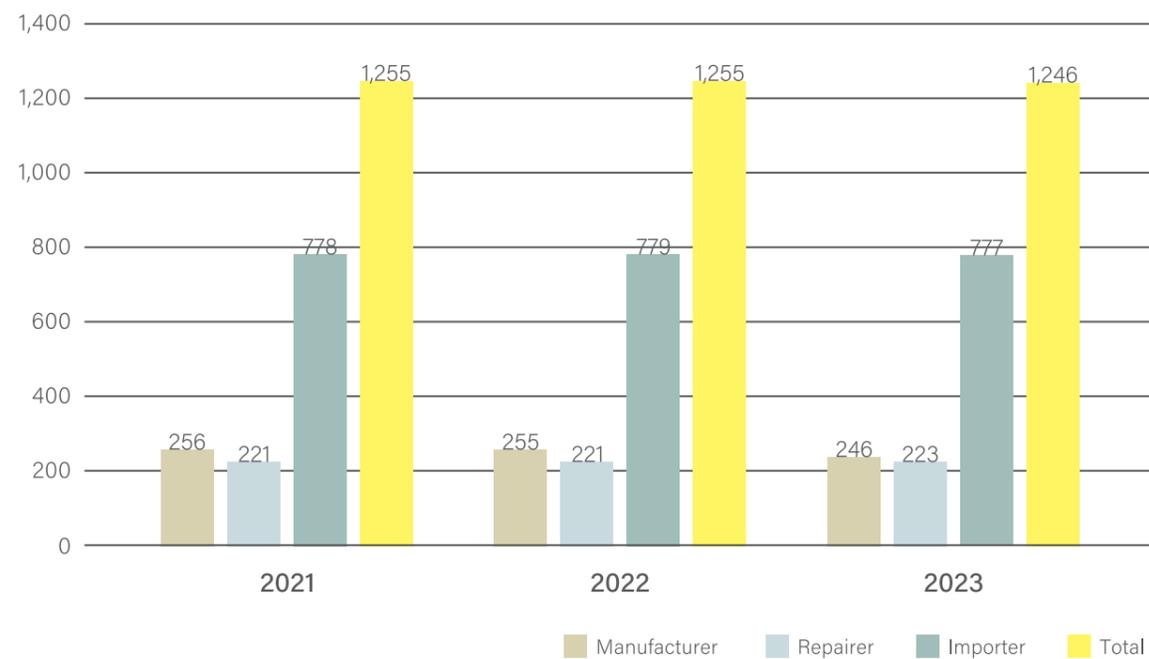


(2) Verification and inspection of measurement instruments*

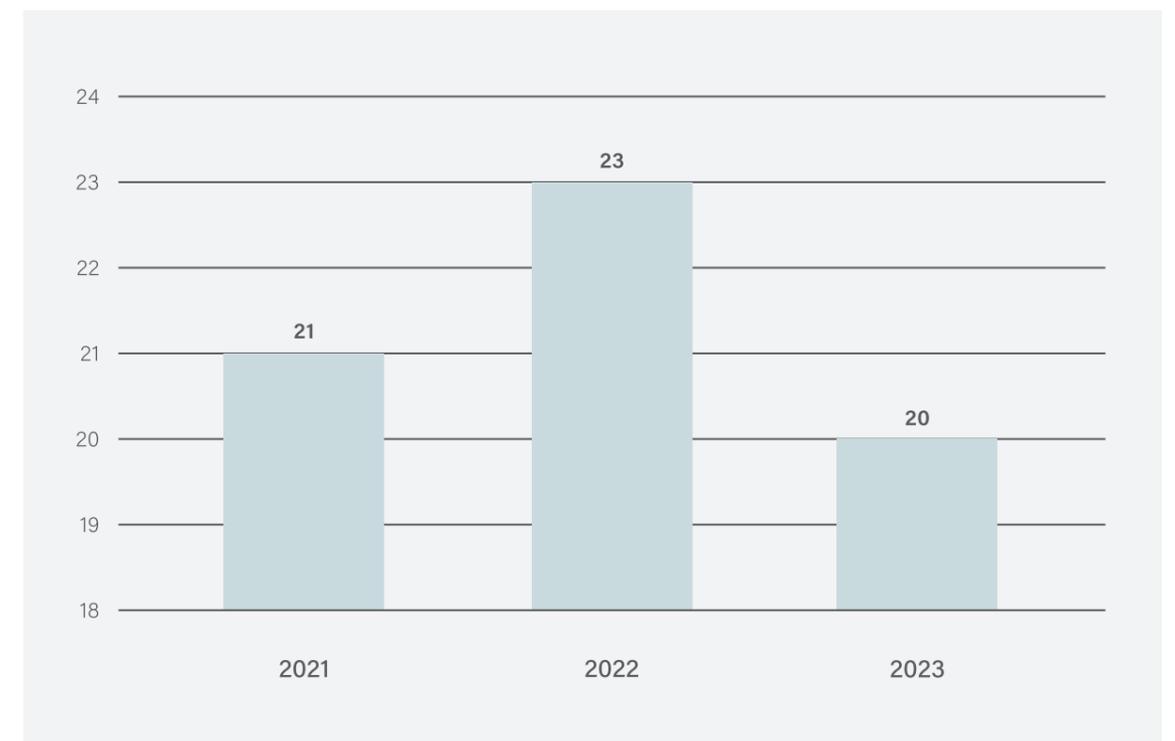


3. Metrology

(1) Licensing of measuring instrument businesses*



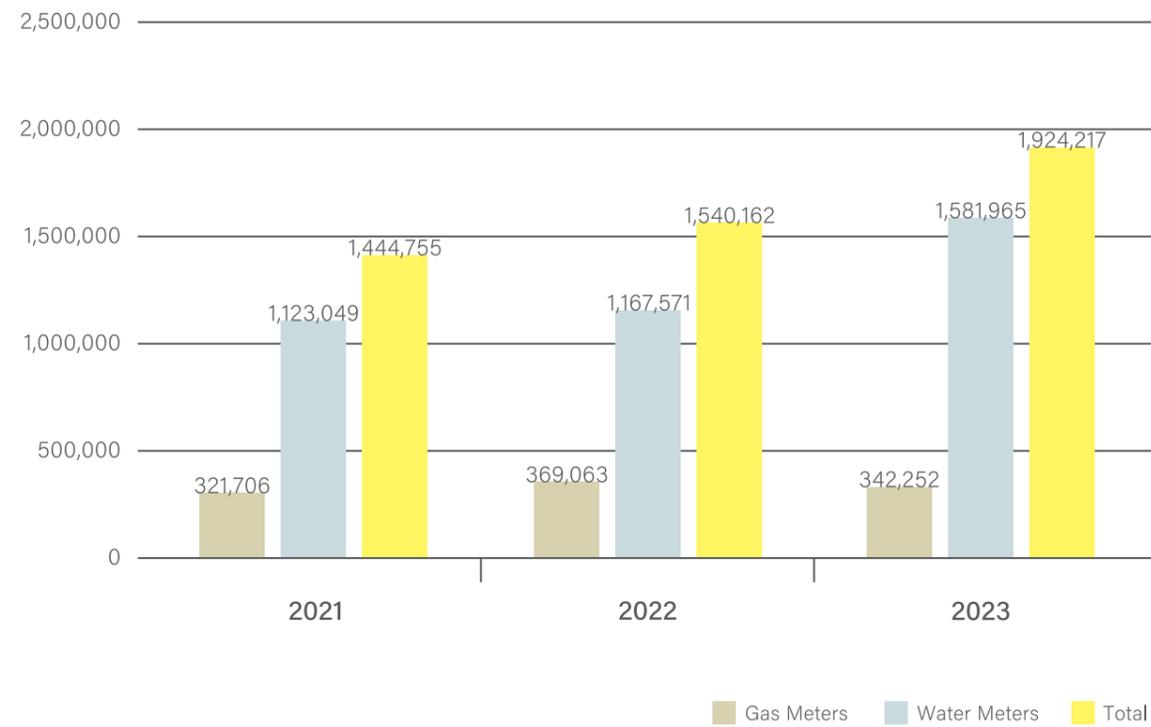
(3) Numbers of type approval of legal measuring instruments



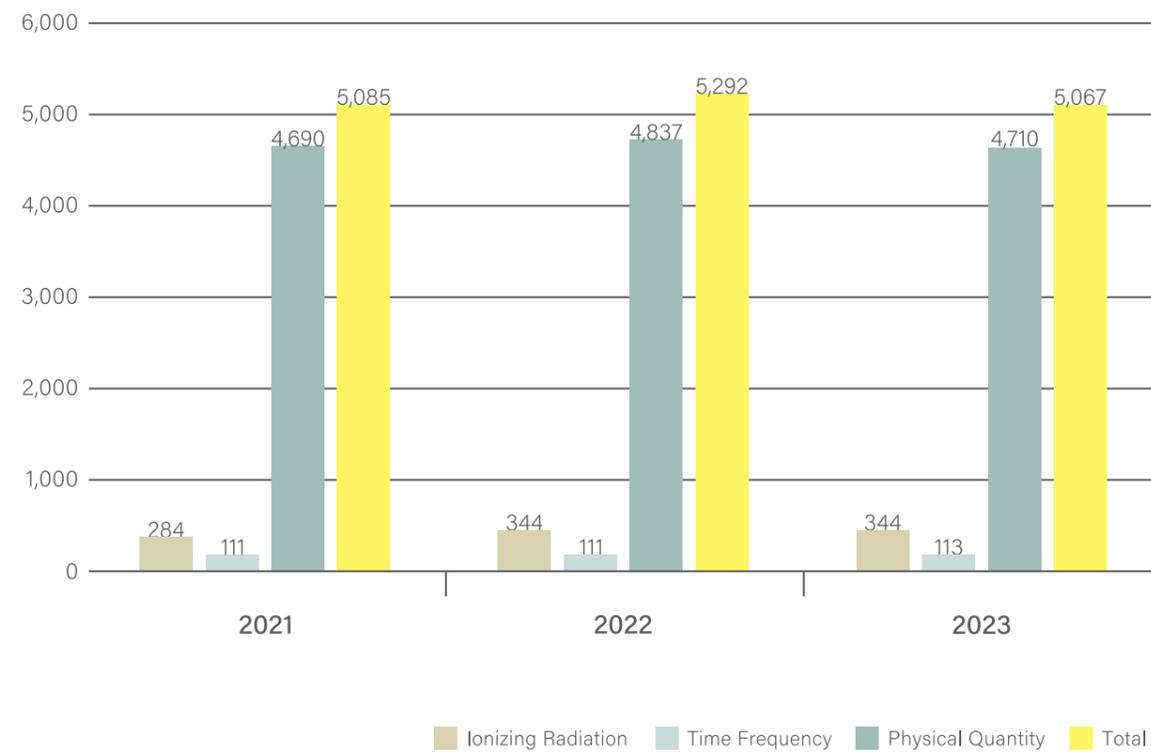
*The BSMI requires that a license be obtained for any person to be engaged in activities of manufacturing, repairing or importing measuring instruments.

*77% of instruments verified and inspected were water meters and watt hour meters.

(4) Status of self-verification of legal measuring instruments



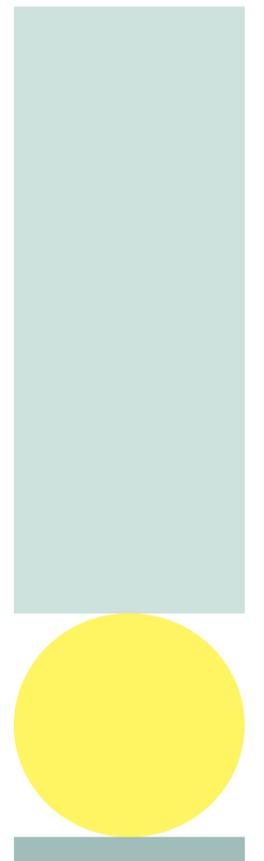
(5) Numbers of calibration services provided to primary laboratories by the National Measurement Laboratory (NML)



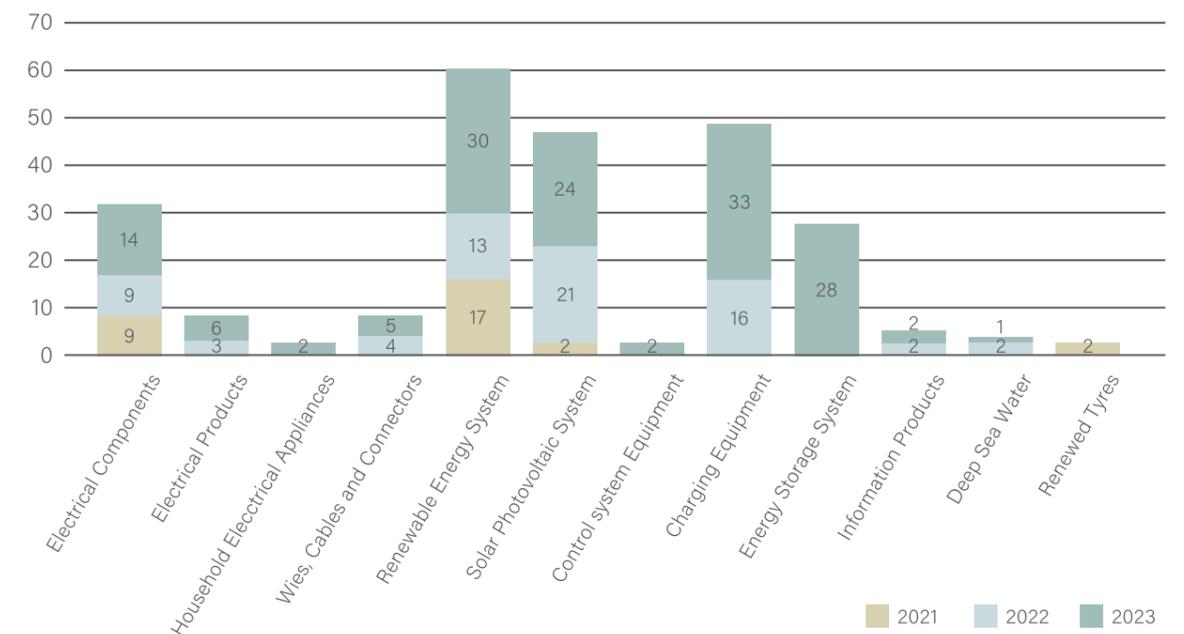
4. Voluntary certification scheme

(1) Product scope of voluntary product certification

Categories	Items
Electrical Components	20
Electrical Products	1
Household Electrical Appliances	2
Wires, Cables and Connectors	1
Renewable Energy System	1
Solar Photovoltaic System	1
Components of Electrical and Electronic Products	1
Sports and Fitness Equipment	3
Gas Equipmant	1
Control System Equipment	1
Charging Equipment	4
Vehicle Components	1
Energy Storage System	4
Information Products	4
Deep Sea Water	1
Renewed Tyres	1
Children's Articles	4



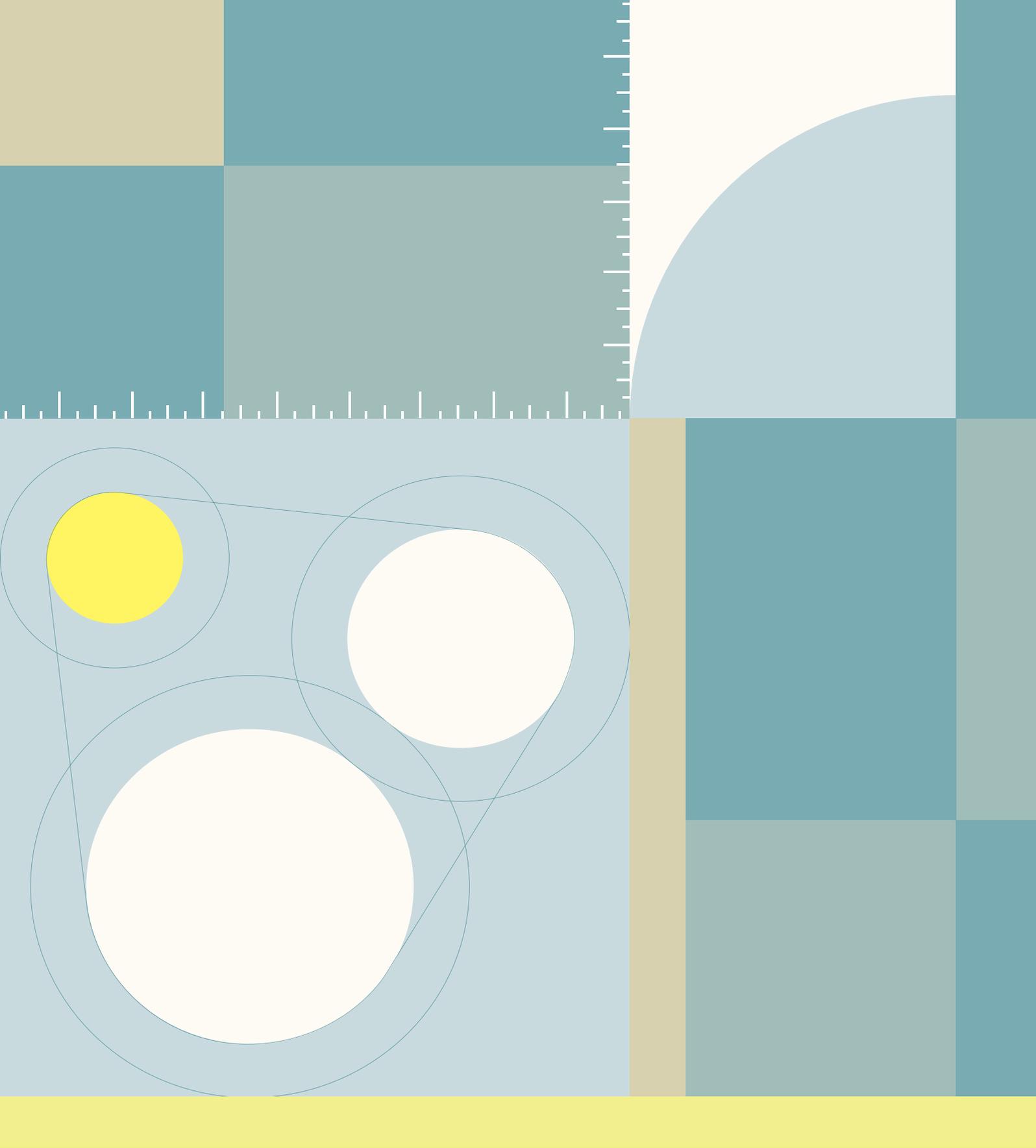
(2) Numbers of voluntary product certificates



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Bureau of Standards, Metrology and Inspection, M.O.E.A
FAX +886-2-2356-0998 TEL +886-2-2343-1700



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