

环保报告 Environmental Report 2025



政 府 化 验 所
Government Laboratory

香港特别行政区政府
The Government of the Hong Kong
Special Administrative Region



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报告摘要 Executive Summary

政府化验所提供广泛的分析、调查和咨询服务，为政府决策局及部门在法治、食品安全、公众卫生、环境保护和消费者权益等各方面的工作，提供支援。

由于政府化验所的核心服务涉及化学品的使用 and 不同仪器的操作，为履行维护环境的责任，我们在化学品处理及废物处置等方面，均制定了妥善的程序，以防止污染。此外，为配合政府节能减碳的环保政策，政府化验所积极推行节能减废的措施。

自 1998 年起，政府化验所根据 ISO 14001 标准建立了一套环境管理系统，以维持高水准的环境绩效，支持我们检测服务的可持续发展。

本报告总结了化验所在 2025 年里的环境管理绩效，反映我们在多方面所作出的努力。一如既往，我们会继续秉承精益求精的专业态度，积极探索改善机遇，优化日常运作及实验室设施，进一步提升环境绩效。

政府化验师
张子俊博士
二零二六年九月

The Government Laboratory (GL) provides a wide range of analytical, investigatory and advisory services, offering support to enable government bureaux and departments to meet their responsibilities for law and order, food safety, public health, environmental protection, consumer protection and the implementation of government policies.

As the core services of the GL involve the use of chemicals and the operation of various types of instruments, we have established proper procedures for chemical handling and waste disposal to prevent pollution, in order to fulfill our environmental obligations. Furthermore, to align with the Government's environmental policy on energy conservation and carbon reduction, the GL is actively engaged in implementing energy saving and waste reduction initiatives.

Since 1998, the GL has established an environmental management system (EMS) in accordance with ISO 14001 standard to maintain a high standard of environmental performance that supports the sustainable development of our testing services.

This report provides an overview of the GL's environmental management performance in 2025, reflecting our efforts in various aspects. As always, we will uphold our professionalism and commitment to excellence, actively seek opportunities for improvement, and strengthen our daily operations and laboratory facilities to further enhance our environmental performance.

Dr. CHEUNG Tsz-chun
Government Chemist
September 2026

主要职责概述

Profile of Key Responsibility

政府化验所由政府化验师领导，为政府决策局及部门提供广泛而公正及可靠的法证、分析和咨询服务。

为了保障公众健康及保障消费者，政府化验所恒常地为食物、药物、中药及商品等进行检测。同时，我们亦提供有关环境保护的检测及咨询服务，以支持香港特区的可持续发展。此外，政府化验所提供必要的法证服务，以支持香港特区的刑事司法制度。

截至 2025 年 12 月，政府化验所的员工编制共 507 人，由 27 个专职组别负责提供服务。政府化验所的组织图及实验室地点详见后两页。

The GL, headed by the Government Chemist, offers a comprehensive range of impartial and reliable forensic, analytical and advisory services to various government bureaux and departments.

To safeguard public health and ensure consumer protection, the GL provides analytical and advisory services for surveillance programmes on food, drugs, Chinese medicines and commodities, etc.. We also provide testing and advisory services related to environmental protection to support the sustainable development of Hong Kong Special Administrative Region (HKSAR). In addition, the GL provides essential forensic science services to support the criminal justice system in HKSAR.

As at December 2025, the GL had a staff establishment of 507. Services were provided by 27 specialist Sections. The organisation chart and the locations of the GL's laboratories are shown on the next two pages.



组织图 Organisation Chart ...



实验室地点 Laboratory Locations ...

九龙石硤尾
公共卫生检测中心
Public Health
Laboratory Centre
Shek Kip Mei, Kowloon



九龙荔枝角
荔枝角政府合署
Lai Chi Kok
Government Offices
Lai Chi Kok, Kowloon



香港薄扶林
食物安全检测所
Food Safety Laboratory
Pok Fu Lam, Hong Kong



九龙何文田
何文田政府合署
Ho Man Tin Government Offices
Ho Man Tin, Kowloon



九龙长沙湾实验室
Laboratory at Cheung Sha Wan, Kowloon



新界沙田
香港科学园
Hong Kong Science Park
Sha Tin, New Territories



九龙何文田
京士柏气象站
King's Park
Meteorological Station
Ho Man Tin, Kowloon



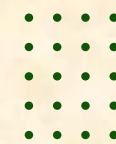
九龙九龙湾
工务中央试验所大楼
Public Works Central
Laboratory Building
Kowloon Bay, Kowloon



环保政策 Environmental Policy

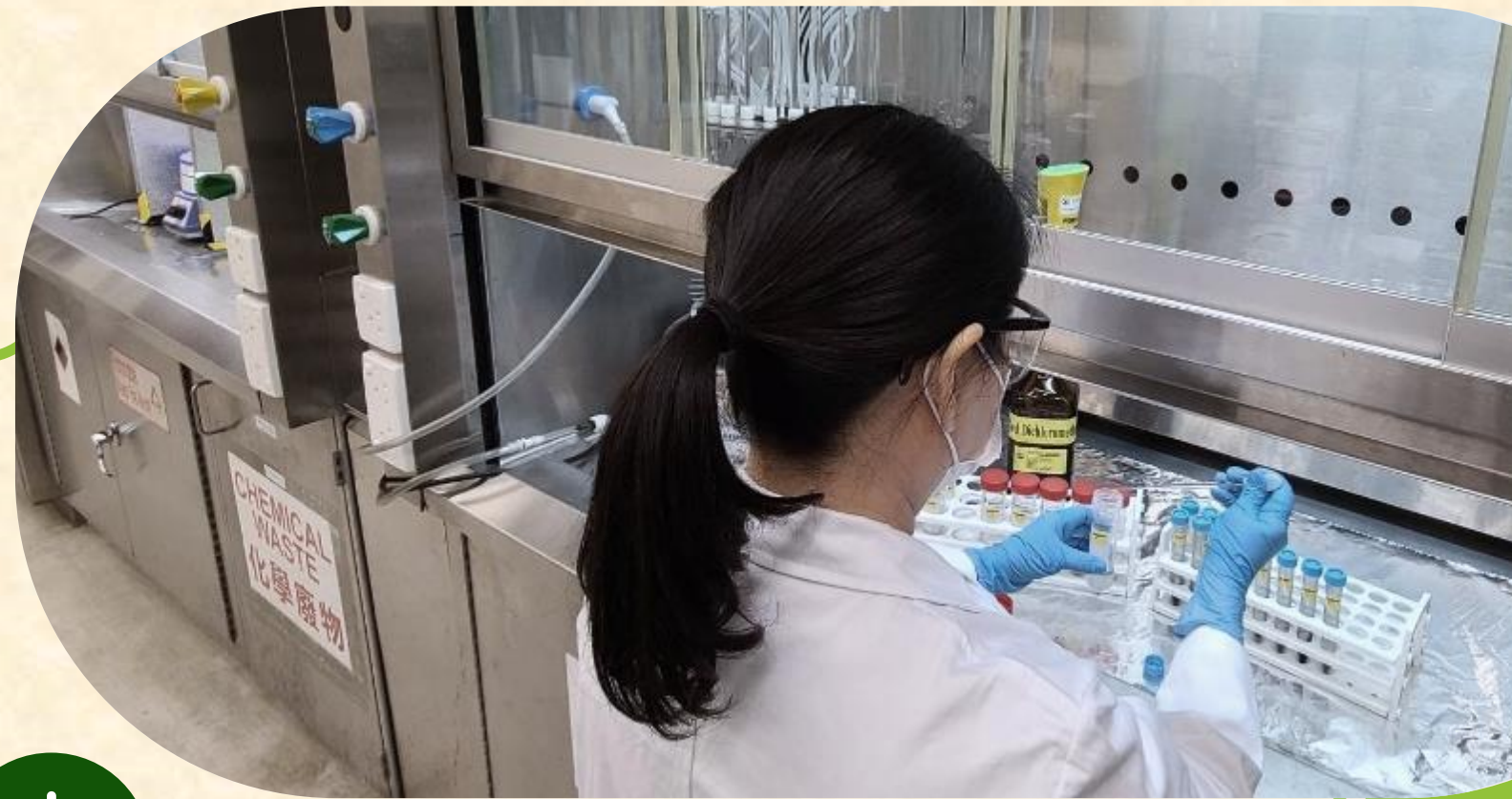
政府化验所承诺，致力执行有效的环保管理系统，作为日常工作的一个重要部分。我们的政策是确保政府化验所的工作程序和设施均符合环保要求。具体而言，我们会遵从后两页所列的六大环保政策的原则：

The GL is committed to implementing an effective environmental management system as an important part of our daily work. Our policy is to ensure that the GL's operating procedures and facilities comply with the environmental requirements. Specifically, we adhere to the six principles of our environmental policy listed on the next two pages:



环保政策

Environmental Policy



(a) 防止污染

政府化验所在提供服务的过程中，致力遏制释放污染物，并减轻其对环境的有害影响。

(a) Prevent Pollution

We strive to prevent the release of pollutants that the Laboratory may cause during service delivery, and to mitigate their detrimental effects to the environment.



(b) 保护资源

我们提倡绿色采购和管理，遵照“减少、重用、再造、及替代”原则，采取所有切实可行的措施节约能源，以及减少耗损净水、物料和自然资源。

(b) Preserve Resources

We promote green procurement and management, and take all practicable measures to conserve energy, water, materials and natural resources by adopting the principle of “reduce, reuse, recycle and replace”.



(c) 履行合规义务

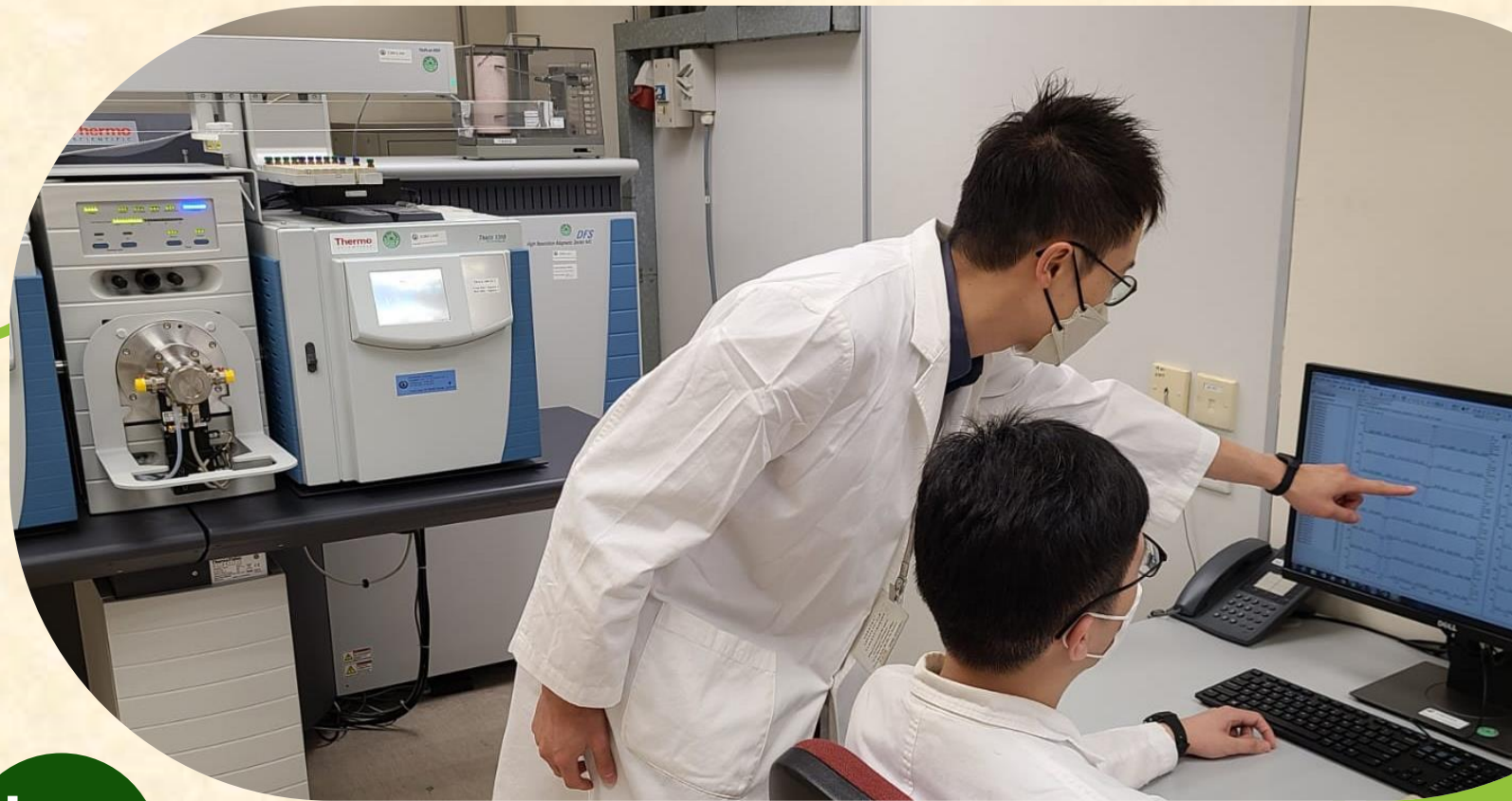
我们确保运作过程完全符合相关的环保法例及其他适用要求。

(c) Fulfil Compliance Obligations

We fulfil the obligations to comply with all relevant regulatory and other applicable requirements on environmental performance in our operation.

环保政策

Environmental Policy



(d) 加强沟通和意识

- 我们透过发布年度报告汇报我们的环境表现，以提高对公众的透明度；
- 我们定期向所有员工提供培训及发放指引，培养绿色文化和增强员工的环保意识。

(d) Enhance Communication and Awareness

- We facilitate transparency to the public through annual reporting of our environmental performance;
- We foster green culture and staff awareness through providing regular training and guidelines to all staff.



(e) 支持可持续发展

我们致力透过可持续方式提供优质的化验服务，并在追求科技进步时，竭力降低对环境的影响。

(e) Support Sustainable Development

We are committed to providing quality laboratory services in a sustainable manner with due consideration for minimising environmental impacts while achieving technology advancement.



(f) 追求持续改进

我们决意持续不断改进，全方位追求环境表现的提升。

(f) Promote Continual Improvement

We are determined to seek continual improvement to enhance our environmental performance on all fronts.

环境管理系统

Environmental Management System

员工责任

政府化验所辖下的环境、安全及保安委员会负责制定及推行环保政策和指引，并监察我们的环保表现。委员会由一位首长级人员领导，成员包括政府化验师委派的人员及各职级员工代表，定期商讨环境管理的工作。

各组主管及部门主任秘书均获委派为「环境、安全及保安督察」，负责监督属下员工工作时遵守环保政策、指引及措施。

另外，分析及咨询事务部辖下的环境管理系统工作小组由环境经理领导及各组别的代表组成，负责协助环境经理，监察不同组别（包括环境化学A组、环境化学B组、残留组、微量元素化验组、外判管理组、品质管理组及策略性发展组）所推行的环境管理系统。此外，工作小组亦会支援各组别为扩展 ISO 14001 认证范围作准备。

Staff Responsibility

The Laboratory Environment, Safety and Security Committee (LESSC) is responsible for formulating our environmental policy and guidelines, and for monitoring our environmental performance. The LESSC is chaired by a directorate-grade officer and comprised of officers appointed by the Government Chemist and staff representatives at different ranks. It meets regularly to discuss EMS-related matters.

Section Heads and the Departmental Secretary are designated as the Environment, Safety and Security Inspectors, who are responsible for supervising their staff to work under the established environmental policy, guidelines and measures.

Moreover, the Environmental Management System Working Group (EMSWG) under the Analytical & Advisory Services Division, is led by the Environmental Manager (EM) and comprises representatives from various Sections. The EMSWG assists the EM in overseeing the EMS implemented by different Sections, including Environmental Chemistry A (ECA) Section, Environmental Chemistry B (ECB) Section, Residues (RE) Section, Trace Elements (TE) Section, Outsourcing Management (OM) Section, Quality Management (QM) Section and Strategic Development (SD) Section. In addition, the EMSWG also provides support to Sections in preparing for the extension of ISO 14001 certification scope.

环境管理系统

Environmental Management System

教育及培训

所有新聘用的员工均须参加入职培训，认识一般实验室安全措施及政府化验所的环境管理系统。此外，政府化验所亦定期举行紧急事故处理的培训及演习，当中包括气樽泄漏事件及抽风柜故障事件，预防环境污染。在 2025 年，我们共举办了 37 次环境突发事故演习。

另外，我们举办了一节 EMS 培训课，让同事们对化验所的环境管理系统和其根据 ISO 14001 标准制订的操作程序，以及政府的绿色政策，有更深入的认识。此外，我们还为负责环境管理系统内部审计的同事安排了一节审计培训课。

Education and Training

All newly recruited staff are required to attend an induction training to learn about general laboratory safety practices and the GL's EMS. Furthermore, the GL regularly organises training and drills on topics related to environmental emergencies, including the gas leakage from gas cylinder and the breakdown of fume cupboard, to prevent environmental pollution. In 2025, a total of 37 drill sessions were conducted.

Besides, we organised an EMS Introduction Training to enable colleagues to gain a deeper understanding of the GL's EMS and its operating procedures according to ISO 14001 standard, as well as the Government's green policy. In addition, we arranged an Auditor Training for colleagues responsible for internal audits of the EMS.

环境管理系统

Environmental Management System

环境管理系统监测及评审

为了评估政府化验所的环境绩效及表明我们履行合规的义务，化验所实施年度环境监测计划，为已获 ISO 14001 认证的组别所排放的污水与废气，检测其污染物含量。2025 年的环境监测计划已经顺利完成，当中所有监测数据均符合相关法例规定。

在 2025 年 11 月至 12 月，化验所亦进行了该年度的环境管理系统内部审核。结果显示，化验所的环境管理系统运作良好，能有效达致环境政策的各项目标。

此外，香港品质保证局于 2026 年 1 月为化验所的环境管理系统进行再认证审核，并确认化验所的环境管理系统及有关运作程序持续符合 ISO 14001 标准的要求，而环境化学A组、环境化学B组、微量元素化验组、残留组、外判管理组、品质管理组和策略性发展组均能维持原有认证。

Environmental Monitoring and Audits

To evaluate the GL's environmental performance, and to demonstrate our compliance obligations, the GL implements a yearly environmental monitoring programme to test the levels of pollutants in the effluent and air discharge produced from the Sections that have obtained ISO 14001 certification. The environmental monitoring programme for 2025 was completed, and all monitoring results complied with the relevant statutory requirements.

In November - December 2025, the GL also conducted the annual internal audit. The results of the internal audit showed that the EMS adopted in the GL had been well implemented and had achieved the objectives of the environmental policy effectively.

Moreover, the Hong Kong Quality Assurance Agency conducted an renewal audit in January 2026. The audit team concluded that the GL's environmental management system and relevant operating procedures continued to fulfil the requirements of ISO 14001 standard. The ECA Section, ECB Section, TE Section, RE Section, OM Section, QM Section and SD Section all maintained their certification.



碳管理 Carbon Management

大部份设有政府化验所实验室的建筑物均与其他政府部门共用，并由有关的管理办事处或政府产业署管理。而位于香港岛薄扶林域多利道 800 号的食物安全检测所，则由政府化验所独立管理。目前，检测所设有残留组，负责检测食品中的兽药残留和农药残留。

政府化验所根据由环境保护署及机电工程署联合出版的「香港建筑物（商业、住宅或公共用途）的温室气体排放及减除的核算和报告指引」为食物安全检测所进行碳审计评估，结果显示检测所在 2024-25 财政年度的温室气体排放量为 1,096 公吨二氧化碳当量¹，相比 2023-24 财政年度，减少大约 9 %。

政府承诺与社会紧密合作，共同致力减少温室气体的排放，以达成减碳目标。在未来日子，政府化验所会继续寻求并采取有效可行的环保措施，减少碳排放。

Most premises housing the laboratories of the GL are shared with other government departments and are managed by the respective building management office or the Government Property Agency. On the other hand, the Food Safety Laboratory (FSL) located at 800 Victoria Road, Pokfulam in Hong Kong Island is solely managed by the GL. Currently, the FSL houses the Residues Section which is responsible for testing residues of veterinary drugs and pesticides in food.

The GL conducted a carbon audit for the FSL in accordance with the “Guidelines to Account for and Report on Greenhouse Gas Emissions and Removals for Buildings (Commercial, Residential or Institutional Purpose) in Hong Kong” jointly published by the Environmental Protection Department (EPD) and the Electrical and Mechanical Services Department (EMSD). The audit results indicated that the amount of greenhouse gas (GHG) emissions in the fiscal year 2024-25 was 1,096 tonnes of CO₂-equivalent,¹ which was around 9 % reduction compared to that in the fiscal year 2023-24.

It is the commitment of the Government to work closely with the community to reduce GHG emissions in order to achieve the decarbonisation targets. In the future, the GL will continue to explore and adopt effective and practicable green measures to reduce carbon emissions.

¹ 温室气体排放量是使用环境及生态局提供的碳审计范本（版本2.9）计算出来。

¹ The amount of greenhouse gas (GHG) emissions was calculated using the Excel template for Carbon Audit (Version 2.9) provided by Environment and Ecology Bureau.



节能绿建 Energy Saving and Green Buildings

政府在《2019 年施政报告》制定了一个五年「绿色能源目标」，期望在 2020-21 至 2024-25 年间，以 2018-19 年为基准年，在运作环境相若的基础上，能达致 6 % 的「绿色能源目标」。为响应政府节约用电的政策，食物安全检测所完成了三项能源管理机会项目，结果显示 2024-25 财政年度内的用电量，相对 2018-19 基准年的水平减少了 7.4 %，超额达成了「绿色能源目标」。

食物安全检测所完成了一项改善工程，将 T8 及 T5 荧光灯更换成发光二极管，有助降低能源消耗，估算每年可减少约 23,800 千瓦时的用电量，相比起旧的照明系统，能节省约 39 % 的用电量。政府化验所将继续探讨更多节能方案，以达到既定的目标。

The Government formulated a five-year “Green Energy Target” in the 2019 Policy Address, aiming to achieve a 6% reduction in electricity consumption from 2020-21 to 2024-25, using 2018-19 as the baseline under comparable operating conditions. To support the Government’s policy on electricity saving, the FSL completed three Energy Management Opportunities projects. The electricity consumption of the FSL in the fiscal year 2024-25 was reduced by 7.4 % compared with that of the baseline year in 2018-19, successfully surpassing the “Green Energy Target”.

The FSL has completed an improvement project to replace T8 and T5 fluorescent lamps with light-emitting diode (LED) lighting, which helps to reduce energy consumption and is estimated to save approximately 23,800 kWh of electricity per year. Compared to the old lighting system, the new one can save about 39% of the electricity consumption. The GL will continue to explore more energy-saving measures to achieve the established target.



资源使用

Resource Consumption

政府化验所环境安全及保安小组不仅制订环保指引，更不时提醒员工遵守相关指引和守则。就此，我们按时监察信封、纸张和电力的耗用量，作为年度环保成效的指标。

政府化验所在不断为客户部门扩展化验服务的情况下，各项资源的耗用量大致保持平稳，反映化验所透过营运优化，有效提升资源使用效率。我们会继续透过运用科技，尽可能减少耗用资源。

The LESSC not only formulates environmental guidelines but also regularly reminds staff to comply with the relevant guidelines and rules. In this regard, the consumption of envelopes, paper and electricity was monitored as the indicators of annual environmental performance.

Despite the continuous expansion of analytical services for client departments, the GL has maintained overall resource consumption at a relatively stable level. This reflects that, through operational optimisation, the GL has effectively improved its resource consumption efficiency. We will continue to minimise resource consumption as far as practicable through the application of technology.

年度环保成效指标
Annual Environmental Performance Indicators

	2021	2022	2023	2024	2025
信封 (个) Envelope (No.)	4,244	3,380	4,103	3,725	2,855
电力* (10 ³ kWh) Electricity* (10 ³ kWh)	2,690	2,570	2,351	2,565	2,408
纸张 (公斤) Paper (kg)	6,965	7,894	7,742	6,189	7,716

*政府化验所总部 (9,560 平方米) 的用电量

*Electrical consumption of the Government Laboratory Headquarters (9,560 m²)

废物减量

Waste Reduction

在现行的环境管理系统下，政府化验所实施有效的废物管理，定期监测日常运作所产生的污水与废气，确保其污染物含量符合有关法例规定。此外，所有员工必须接受培训，并定期予以提醒需按照既定的环境指引妥善处理各种废物。

政府化验所产生的化学废物全部由专责机构收集和处理。在 2025 年，ISO 14001 认证组别所产生的总化学废物量为 8,900 升，整体维持于相对稳定水平，当中有机会因应突发事件或科研项目而出现轻微波动。我们会继续透过提升检测方法的环境绩效，务求减少化学废物的产生量。

Under the existing EMS, the GL implements effective waste management by regularly monitoring the levels of pollutants in the effluent and air discharge generated from daily operations to ensure compliance with relevant regulatory limits. Moreover, all staff members receive training and are regularly reminded to dispose of various types of wastes properly in accordance with the established environmental guidelines.

All chemical waste generated by the GL is collected and treated by authorised agents. The total amount of chemical waste generated by Sections that have obtained ISO 14001 Certification in 2025 was 8,900 L, remaining generally stable. Minor fluctuations might occur due to occasional incidents or ongoing research projects. The GL will continue to reduce the generation of chemical waste by enhancing the environmental performance of our testing methods.

ISO 14001 认证组别所产生的化学废物量
Amounts of Chemical Wastes Generated by Sections
that have obtained ISO 14001 Certification

	2021	2022	2023	2024	2025
酸性化学废物 (升) Acidic Waste (L)	4,859	4,137	4,077	4,351	4,926
碱性化学废物 (升) Alkali Waste (L)	202	64	52	35	16
卤化有机化学废物 (升) Halogenated Waste (L)	1,573	1,482	1,534	1,495	1,414
非卤化有机化学废物 (升) Non-Halogenated Waste (L)	2,247	2,526	2,966	2,698	2,544
总量 (升) Total (L)	8,881	8,209	8,629	8,579	8,900

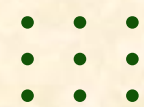
室内空气质素 Indoor Air Quality



政府化验所一向致力在多方面改善工作环境的质素。目前，我们有六个实验室处所参与「室内空气质素认证计划」，包括何文田政府合署的政府化验所总部、荔枝角政府合署、食物安全检测所、工务中央试验所大楼、香港科学园及公共卫生检测中心，并均获得「卓越级」或「良好级」的认证。

The GL has always been committed to improving the quality of the working environment in various aspects. Currently, six of our laboratory premises participate in the Indoor Air Quality Certification Scheme, including the Headquarters at the Ho Man Tin Government Offices, Lai Chi Kok Government Offices, FSL, Public Works Central Laboratory Building, Hong Kong Science Park and Public Health Laboratory Centre. All have been awarded "Excellent" or "Good" Class certification.





环境管理改善措施 Initiatives on Environmental Improvement

继策略性发展组于 2025 年 1 月成功取得 ISO 14001 认证后，政府化验所现共有七个组别获得 ISO 14001 认证，化验所会透过持续优化资源，继续逐步扩大认证范围，以涵盖其他组别。

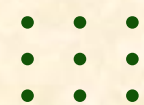
政府化验所继续采用无纸化的环境管理系统，系统内的文件及记录均为电子版本。另外，化验所亦已推行电子档案保管系统，藉此进一步减少用纸。

此外，政府化验所根据政府的环境政策，继续推广切实可行的绿色采购。化验所已加强资讯科技采购系统，鼓励员工在选购列明的常用物品及服务时，采纳相应的环保采购小贴士。

After the SD Section successfully obtained ISO 14001 certification in January 2025, the GL now has a total of seven Sections certified under ISO 14001. The GL will continue to optimise resources and progressively expand the certification scope to cover other Sections.

The GL continues to adopt a paper-free EMS, with all environmental documents and records maintained in electronic format. Furthermore, the GL has begun implementing the Electronic Recordkeeping System to further reduce paper usage.

In addition, in accordance with the Government's environmental policy, the GL will continue to promote practicable green procurement. The GL has enhanced the IT procurement system to encourage staff members to adopt corresponding green purchase tips while purchasing the enlisted common items and services.



展望 Way Forward

为致力提升环境绩效，我们将持续审视其运作，以实现持续改进。各组别将继续检讨其分析方法，精简工作流程，并寻找非环境友善化学品的替代物，确保既定的环境指引和程序得以有效实施。同时，我们将继续发掘和推行可行的节能减废措施，以减少碳排放。

展望未来，为进一步提高政府化验所的环境绩效及配合未来发展，我们将努力优化现有资源的使用，逐步扩大环境认证范围，以涵盖整个部门。此外，由于新版 ISO 14001:2026 已于 2026 年 4 月发布，我们将展开为取得更新版本认证的准备工作。

To enhance environmental performance, we will continue to review our operations to achieve continuous improvement. All Sections will continue to examine their analytical methods, streamline workflows and seek alternatives to replacing non-environmental friendly chemicals to ensure that the established environmental guidelines and procedures are fully implemented. Meanwhile, we will continue to explore and implement practicable energy saving and waste reduction measures to reduce carbon emissions.

Looking ahead, to further improve the GL's environmental performance and cope with future development, we will strive to optimise the use of existing resources and progressively expand the scope of environmental certification to cover the entire department. Besides, since the new ISO 14001:2026 edition was released in April 2026, we will commence the preparatory work for obtaining certification under the updated version.



意见及查询

Feedback and Enquiries



如对本报告有任何意见及查询，请
联络政府化验所部门主任秘书。

Please direct all feedback and
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