



水足跡查證服務

Water Footprint Verification Service

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 **TÜVRheinland®**
Precisely Right.



有效的水資源管理，成就永續發展的未來

Efficient water management for a sustainable future

水資源匱乏是長久以來一直存在的問題，尤其是國際間和區域間水資源分配不均，導致無法真正做到有效的收集與利用。隨著全球水資源日益枯竭，水資源的有效利用受到越來越多的關切。各國不僅推出節水的法律法規，同時也尋求更有效利用水資源的方法，以及改善水資源分佈不均的解決方案。透過第三方驗證機構對用水量的計算與管理進行查驗，是掌握水資源消耗的重要方法。

水足跡以生命週期為出發點，探討產品或服務的直接及間接用水的用水需求，也包含廢水在內的其他水資源資料，目的在於讓人們能夠更有效地管理水資源，進而達到水資源的永續管理目標。

The shortage of water resources has been an unsolved problem for years, particularly the issue of unbalanced distribution among nations and regions, which leads to ineffective utilization. In addition to implementing water saving policies, many countries have started to seek out efficient solutions to their water consumption and distribution problems. Checking the calculation and management of fresh water consumption a through third-party organization is a key method in ensuring efficient water consumption.

The “water footprint” is an indication of water consumption that represents both direct and indirect water use along with the concept of virtual water. From a life cycle perspective, the water footprint of an individual, community, or business is defined as the total volume of fresh water consumed in the domestic and industrial sectors. This includes waste water usage and other water resource data. The goal is the sustainable management of all water resources.



德國萊因 TÜV, 值得您信賴的合作夥伴

TÜV Rheinland is your reliable partner

- 我們的專家熟悉產業用水特性，瞭解區域廢水排放限制
We are equipped with experience about water consumption in various industries and waste water limitations
- 消費者可根據水足跡的標示瞭解產品所消耗的水資源，選擇節水產品
Consumers can choose water-efficient products with the water footprint mark
- 我們幫助消費者和商家在決定採購項目時，兼顧產品價值及其對人類和環境的影響
We enable consumers and businesses to make purchasing decisions that benefit consumers and the environment in addition to providing ongoing business value
- 我們遍佈大中華區的服務網路及技術團隊為您提供一站式服務
Our network and team of experts in Greater China provide you with a full suite of comprehensive sustainability services
- 我們熟悉產品的生命週期，協助您改善流程，減少成本
Specializing in the complete life cycle of products, we can help you streamline your processes and reduce costs
- 我們提供您一個對環境和社會責任的展示平臺
We offer you a platform to demonstrate your commitment to the environment and society

我們的服務

Our services

依據《ISO 14046》，我們為您提供產品或組織水足跡查證服務，包括：

In accordance with ISO 14046, we can provide you with product or organization water footprint verification by:

- 驗證產品生命週期中水使用過程的計算，包括特定地點與特定時間內水的消耗，蒸發與污染量
Verifying the calculation of complete water usage at specific locations and times in a product's life cycle, including water consumption, evapotranspiration, and pollution quantity
- 協助企業進行產品或組織水足跡查證，以檢查自身用水需求並顯示企業永續水資源管理的責任心。消費者則可以藉由水足跡檢測的可靠資料來選購節水產品。
Helping you verify product or organization water footprints to exam water consumption and demonstrate your sense of responsibility in sustainable water resource management. The water footprint data provides a reliable standard for consumers seeking to purchase water-efficient products

我們的服務流程

Service procedures



驗證重點

Points of focus for the water footprint verification service:

- 範疇邊界設定
Definition of boundaries
- 文件收集程序
Data collection
- 數據資料來源
Data referencing and checking
- 數據引用及計算
Data reference and calculation
- 現場作業確認
On-site verification and confirmation

相關標準

Related standards

ISO 14046

ISO 14046 水足跡原則要求與指引 (Water footprint — Principles, requirements and guidelines) 是由國際標準化組織 (International Organization for Standardization, ISO) 所制定的一項國際標準。並且遵循 ISO 14044 生命週期評估 (Life Cycle Assessment, LCA) 之原則與要求，以「生命週期」為發展基礎，規定了評估和報告水足跡的原則、要求和指導原則。

ISO 14046 水足跡標準基於生命週期評估的產品、流程和組織，對其作出單獨的水足跡評估，可作為計算和報告水足跡提供要求和指南。

ISO 14046

ISO 14046 Water footprint - Principles, requirements and guidelines is an international standard formulated by the International Organization for Standardization (ISO). In addition, it follows the principles and requirements of ISO 14044 Life Cycle Assessment (LCA), and takes "life cycle" as the development basis to specify the principles, requirements and guiding principles for assessing and reporting water footprints.

Based on the life cycle assessment of products, processes, and organizations, the ISO 14046 water footprint standard creates a separate water footprint assessment which can provide requirements and guidance for calculating and reporting a water footprint.

適用範圍

Applied scope

所有產業類別，如

- 電子業
- 食品飲料業
- 其他

All industries, including:

- Electronics
- Food and beverage
- Others

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