

QUARTZ



Quartz for ESG Compliance



Challenge

Moving from the sidelines to the spotlight, Environmental and Social responsibilities now go beyond strictly regulatory compliance, as this showcases a company's commitment towards preserving the environment, social responsibility and ethical practice of business. The ESG framework helps stakeholders understand how an organization is managing risks and opportunities related to ever-changing environmental, social and governance factors.

A major reason for the growth of ESG programs has been a greater focus on the environmental component of ESG and corporate responses to climate change. Due to fragmented data sources and evolving regulatory standards, organizations usually struggle with the effective tracking, verification, and reporting of ESG data. Given these needs, an intelligent, comprehensive ESG compliance solution that facilitates effortless data collection, processing, and reporting across regions is crucial. Organizations need to guarantee auditability and accountability while meeting global standards, which can be achieved through a reliable, immutable, and automated system.

Solution

The Quartz solution for ESG Compliance provides an end-to-end digital solution for organizations striving for a sustainable future. It provides a unified platform that seamlessly manages ESG assets, greenhouse gas (GHG) accounting, carbon footprint tracking, as well as enables the tokenization of ESG assets including carbon credits.

The tokenization process creates an efficient, transparent system for managing ESG assets on a blockchain while preserving the credibility of the underlying environmental benefits. The common token standard ERC-20 is used for fungible tokens. The Quartz solution for ESG enables organizations in keeping a transparent record of ownership and transactions in ESG assets reducing the risk of fraud and double counting.

This solution also supports emission scope classification (Scope 1, 2, 3 emissions), GHG accounting, and ESG reporting, enabling organizations to achieve sustainability targets and manage their regulatory compliance commitments.



Benefits

- Transparent management of issuance, ownership, and retirement of ESG Assets, Audit trails
- End to end support for tokenization of ESG assets, including ability to interface seamlessly with external platforms
- Transparent, traceable records of carbon emissions and offsetting efforts, fostering trust among stakeholders
- Support for key regulatory frameworks such as the Greenhouse Gas (GHG) Protocol, Verified Carbon Standards (VCS) and Gold Standard

Quartz Advantage

- Smart contracts to streamline processes such as emissions verification and carbon credit issuance
- Seamless integration with other systems and platforms
- Quartz Command Center enables smooth governance ensuring transparent oversight and automated compliance
- Easy portability between leading blockchain platforms including Ethereum, Quorum and Besu

About Quartz

Quartz provides foundational technology, tools and business components that harness the power of next-gen technologies including DLT, AI/ML (including GenAI) for organizations across varied industries, including Financial Services, Banking, Supply Chain, Energy & Utilities and eGovernance. Backed by awards from Juniper Research (Gold Winner for Digital Identity Innovation 2024), the Asian Banker (Best Fraud Prevention Technology Implementation 2023), Financial Technology Forum (Best New Post Trade Solution of the Year 2022), Asset Servicing Times (Outstanding Innovation Award 2022) and recognition from Analysts (ranked #1 Best Performing Fraud Management Solution by IBS Intelligence 2022) Quartz can help organizations operate at the forefront of technology innovation.

To know more about Quartz, please write to us at tcs.quartz@tcs.com, or visit our website <https://www.tcs.com/what-we-do/products-platforms/quartz>

About Tata Consultancy Services Ltd (TCS)

Tata Consultancy Services (TCS) (BSE: 532540, NSE: TCS) is a digital transformation and technology partner of choice for industry-leading organizations worldwide. Since its inception in 1968, TCS has upheld the highest standards of innovation, engineering excellence and customer service.

Rooted in the heritage of the Tata Group, TCS is focused on creating long term value for its clients, its investors, its employees, and the community at large. With a highly skilled workforce of over 607,979 consultants in 55 countries and 180 service delivery centers across the world, the company has been recognized as a top employer in six continents. With the ability to rapidly apply and scale new technologies, the company has built long term partnerships with its clients – helping them emerge as perpetually adaptive enterprises. Many of these relationships have endured into decades and navigated every technology cycle, from mainframes in the 1970s to Artificial Intelligence today.

TCS sponsors 14 of the world's most prestigious marathons and endurance events, including the TCS New York City Marathon, TCS London Marathon and TCS Sydney Marathon with a focus on promoting health, sustainability, and community empowerment.

TCS generated consolidated revenues of over US \$30 billion in the fiscal year ended March 31, 2025. For more information, visit www.tcs.com