



ESGL Strengthens IP Portfolio with Provisional Patent Filing for Commercialized Precious Metal Recovery Technology

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SINGAPORE, Oct. 08, 2025 (GLOBE NEWSWIRE) -- ESGL Holdings Limited (NASDAQ: ESGL), a leading carbon neutral, innovative enviro-tech company regenerating industrial waste into circular products, through its subsidiary Environmental Solutions Asia Pte Ltd ("ESA"), has filed a patent application (reference number 10202502909X) with the Intellectual Property Office of Singapore (IPOS), to protect its proprietary precious-metal recovery technology designed for treating acidic waste streams.

The provisional patent filing follows more than two years of focused R&D, leading to the successful commercialization of the technology through the recovery of precious metal concentrates from semiconductor acid waste. The proprietary process uses a combination of high-temperature treatment and advanced resin systems to achieve efficient recovery with a lower environmental impact. The concentrates are later refined into pure precious metals by partner refineries.

"This patent filing marks an important milestone in strengthening the protection of our technology," said Lawrence Law, Executive Director of ESGL. "By turning semiconductor waste into valuable precious metal concentrates, we've proven that innovation can go hand in hand with sustainability and economic value creation."

According to Market Research Future, the global precious metals e-waste recovery market was valued at US\$20.76 billion in 2024 and is expected to grow steadily through 2032, driven by demand from the electronics and semiconductor sectors. Asia Pacific is projected to lead this growth with strong manufacturing activity and expanding recycling infrastructure. This represents an addressable market opportunity for ESGL to participate in and integrate into the value chain of precious-metal recovery, particularly in high-value acid-based waste streams.

This milestone underscores ESGL's continued commitment to innovation, sustainability, and shareholder value creation. Building on this success, ESGL intends to further explore opportunities to apply its recovery technology across industrial sectors.

About ESGL Holdings Limited

ESGL Holdings Limited is a Singapore-based carbon-neutral enviro-tech company dedicated to transforming industrial waste into circular products. With a commitment to sustainable waste management solutions, ESGL is a leading player in the environmental solutions industry. ESGL conducts all its operations through its operating entity incorporated in Singapore, Environmental Solutions (Asia) Pte. Ltd. For more information, including the Company's filings with the SEC, please visit <https://esgl.asia>.

Forward-Looking Statements

Certain statements in this press release may be considered to contain certain "forward-looking statements" within the meaning of "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995. Forward-looking statements can be identified by words such as: "target," "believe," "expect," "will," "shall," "may," "anticipate," "estimate," "would," "positioned," "future," "forecast," "intend," "plan," "project" and other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on ESGL management's current beliefs, expectations, and assumptions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks, and changes in circumstances that are difficult to predict and many of which are outside of our control. Actual results and outcomes may differ materially from those indicated in the forward-looking statements. Therefore, you should not rely on any of these forward-looking statements.

A further list and description of risks and uncertainties can be found in documents filed with the Securities and Exchange Commission ("SEC") by ESGL and other documents that we may file or furnish with the SEC, which you are encouraged to read. Any forward-looking statement made by us in this press release is based only on information currently available to the Company and speaks only as of the date on which it is made. The Company undertakes no obligation to publicly update any forward-looking statement, whether written or oral, that may be made from time to time, whether as a result of new information, future developments, or otherwise, except as required by law.

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