



CredShields

Smart Contract Audit

October 31, 2025 • CONFIDENTIAL

Description

This document details the process and result of the Smart Contract audit performed by CredShields Technologies PTE. LTD. on behalf of EcoYield between October 31st, 2025, and October 31st, 2025. A retest was performed on October 31st, 2025.

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Prepared for
EcoYield

Table of Contents

| | |
|---|-----------|
| Table of Contents | 2 |
| 1. Executive Summary ----- | 3 |
| State of Security | 4 |
| 2. The Methodology ----- | 5 |
| 2.1 Preparation Phase | 5 |
| 2.1.1 Scope | 5 |
| 2.1.2 Documentation | 5 |
| 2.1.3 Audit Goals | 6 |
| 2.2 Retesting Phase | 6 |
| 2.3 Vulnerability classification and severity | 6 |
| 2.4 CredShields staff | 8 |
| 3. Findings Summary ----- | 9 |
| 3.1 Findings Overview | 9 |
| 3.1.1 Vulnerability Summary | 9 |
| 4. Remediation Status ----- | 10 |
| 5. Bug Reports ----- | 11 |
| Bug ID#I001[Fixed] | 11 |
| Missing NatSpec Comments | 11 |
| 6. The Disclosure ----- | 12 |

1. Executive Summary -----

EcoYield engaged CredShields to perform a smart contract audit from October 31st, 2025, to October 31st, 2025. During this timeframe, 1 vulnerabilities were identified. A retest was performed on October 31st, 2025, and all the bugs have been addressed.

During the audit, 0 vulnerabilities were found with a severity rating of either High or Critical. These vulnerabilities represent the greatest immediate risk to "EcoYield" and should be prioritized for remediation; fortunately, none were found.

The table below shows the in-scope assets and a breakdown of findings by severity per asset. Section 2.3 contains more information on how severity is calculated.

| Assets in Scope | Critical | High | Medium | Low | Info | Gas | Σ |
|-----------------|----------|----------|----------|----------|----------|----------|----------|
| EcoYield Token | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

Table: Vulnerabilities Per Asset in Scope

The CredShields team conducted the security audit to focus on identifying vulnerabilities in EcoYield Token's scope during the testing window while abiding by the policies set forth by EcoYield's team.



State of Security

To maintain a robust security posture, it is essential to continuously review and improve upon current security processes. Utilizing CredShields' continuous audit feature allows both EcoYield's internal security and development teams to not only identify specific vulnerabilities but also gain a deeper understanding of the current security threat landscape.

To ensure that vulnerabilities are not introduced when new features are added, or code is refactored, we recommend conducting regular security assessments. Additionally, by analyzing the root cause of resolved vulnerabilities, the internal teams at EcoYield can implement both manual and automated procedures to eliminate entire classes of vulnerabilities in the future. By taking a proactive approach, EcoYield can future-proof its security posture and protect its assets.

2. The Methodology -----

EcoYield engaged CredShields to perform the EcoYield Token audit. The following sections cover how the engagement was put together and executed.

2.1 Preparation Phase

The CredShields team meticulously reviewed all provided documents and comments in the smart contract code to gain a thorough understanding of the contract's features and functionalities. They meticulously examined all functions and created a mind map to systematically identify potential security vulnerabilities, prioritizing those that were more critical and business-sensitive for the refactored code. To confirm their findings, the team deployed a self-hosted version of the smart contract and performed verifications and validations during the audit phase.

A testing window from October 31st, 2025, to October 31st, 2025, was agreed upon during the preparation phase.

2.1.1 Scope

During the preparation phase, the following scope for the engagement was agreed upon:

IN SCOPE ASSETS

Audited:

[https://github.com/ecoyield-io/contracts/blob/609c44e0067f26bf6651158a9fd438152fea4b
/src/EcoYieldToken.sol](https://github.com/ecoyield-io/contracts/blob/609c44e0067f26bf6651158a9fd438152fea4b/src/EcoYieldToken.sol)

Retested:

[https://github.com/ecoyield-io/contracts/blob/5ba625233f09b7f5a1f21124f3e9a458047e47b8
/src/EcoYieldToken.sol](https://github.com/ecoyield-io/contracts/blob/5ba625233f09b7f5a1f21124f3e9a458047e47b8/src/EcoYieldToken.sol)

2.1.2 Documentation

Documentation was not required as the code was self-sufficient for understanding the project.

2.1.3 Audit Goals

CredShields employs a combination of in-house tools and thorough manual review processes to deliver comprehensive smart contract security audits. The majority of the audit involves manual inspection of the contract's source code, guided by OWASP's Smart Contract Security Weakness Enumeration (SCWE) framework and an extended, self-developed checklist built from industry best practices. The team focuses on deeply understanding the contract's core logic, designing targeted test cases, and assessing business logic for potential vulnerabilities across OWASP's identified weakness classes.

CredShields aligns its auditing methodology with the [OWASP Smart Contract Security](#) projects, including the Smart Contract Security Verification Standard (SCSVS), the Smart Contract Weakness Enumeration (SCWE), and the Smart Contract Secure Testing Guide (SCSTG). These frameworks, actively contributed to and co-developed by the CredShields team, aim to bring consistency, clarity, and depth to smart contract security assessments. By adhering to these OWASP standards, we ensure that each audit is performed against a transparent, community-driven, and technically robust baseline. This approach enables us to deliver structured, high-quality audits that address both common and complex smart contract vulnerabilities systematically.

2.2 Retesting Phase

EcoYield is actively partnering with CredShields to validate the remediations implemented towards the discovered vulnerabilities.

2.3 Vulnerability classification and severity

CredShields follows OWASP's Risk Rating Methodology to determine the risk associated with discovered vulnerabilities. This approach considers two factors - Likelihood and Impact - which are evaluated with three possible values - **Low**, **Medium**, and **High**, based on factors such as Threat agents, Vulnerability factors, and Technical and Business Impacts. The overall severity of the risk is calculated by combining the likelihood and impact estimates.

| Overall Risk Severity | | | | |
|-----------------------|--------|--|--|---|
| Impact | HIGH | ● Medium | ● High | ● Critical |
| | MEDIUM | ● Low | ● Medium | ● High |
| | LOW | ● None | ● Low | ● Medium |
| | | LOW | MEDIUM | HIGH |
| Likelihood | | | | |

Overall, the categories can be defined as described below -

1. Informational

We prioritize technical excellence and pay attention to detail in our coding practices. Our guidelines, standards, and best practices help ensure software stability and reliability. Informational vulnerabilities are opportunities for improvement and do not pose a direct risk to the contract. Code maintainers should use their own judgment on whether to address them.

2. Low

Low-risk vulnerabilities are those that either have a small impact or can't be exploited repeatedly or those the client considers insignificant based on their specific business circumstances.

3. Medium

Medium-severity vulnerabilities are those caused by weak or flawed logic in the code and can lead to exfiltration or modification of private user information. These vulnerabilities can harm the client's reputation under certain conditions and should be fixed within a specified timeframe.

4. High

High-severity vulnerabilities pose a significant risk to the Smart Contract and the organization. They can result in the loss of funds for some users, may or may not require specific conditions, and are more complex to exploit. These vulnerabilities can harm the client's reputation and should be fixed immediately.

5. Critical

Critical issues are directly exploitable bugs or security vulnerabilities that do not require specific conditions. They often result in the loss of funds and Ether from Smart Contracts or users and put sensitive user information at risk of compromise or modification. The client's reputation and financial stability will be severely impacted if these issues are not addressed immediately.

6. Gas

To address the risk and volatility of smart contracts and the use of gas as a method of payment, CredShields has introduced a "Gas" severity category. This category deals with optimizing code and refactoring to conserve gas.

2.4 CredShields staff

The following individual at CredShields managed this engagement and produced this report:

- Shashank, Co-founder CredShields shashank@CredShields.com

Please feel free to contact this individual with any questions or concerns you have about the engagement or this document.

3. Findings Summary -----

This chapter contains the results of the security assessment. Findings are sorted by their severity and grouped by asset and OWASP SCWE classification. Each asset section includes a summary highlighting the key risks and observations. The table in the executive summary presents the total number of identified security vulnerabilities per asset, categorized by risk severity based on the OWASP Smart Contract Security Weakness Enumeration framework.

3.1 Findings Overview

3.1.1 Vulnerability Summary

During the security assessment, 1 security vulnerabilities were identified in the asset.

| VULNERABILITY TITLE | SEVERITY | SCWE Vulnerability Type |
|--------------------------|---------------|---------------------------|
| Missing NatSpec Comments | Informational | Missing Best Practices |

Table: Findings in Smart Contracts

4. Remediation Status -----

EcoYield is actively partnering with CredShields from this engagement to validate the discovered vulnerabilities' remediations. A retest was performed on October 31st, 2025, and all the issues have been addressed.

Also, the table shows the remediation status of each finding.

| VULNERABILITY TITLE | SEVERITY | REMEDIATION STATUS |
|--------------------------|---------------|----------------------|
| Missing NatSpec Comments | Informational | Fixed [Oct 31, 2025] |

Table: Summary of findings and status of remediation

5. Bug Reports -----

Bug ID#I001[Fixed]

Missing NatSpec Comments

Vulnerability Type

Missing Best Practices

Severity

Informational

Description

Solidity contracts use a special form of comments to document code. This special form is named the Ethereum Natural Language Specification Format (NatSpec).

The document is divided into descriptions for developers and end-users, along with the title and the author.

Affected Code

- <https://github.com/ecoyield-io/contracts/blob/main/src/EcoYieldToken.sol>

Impacts

Without Natspec comments, it can be challenging for other developers to understand the code's intended behavior and purpose. This can lead to errors or bugs in the code, making it difficult to maintain and update the codebase. Additionally, it can make it harder for auditors to evaluate the code for security vulnerabilities, increasing the risk of potential exploits.

Remediation

Developers should review their codebase and add Natspec comments to all relevant functions, variables, and events. Natspec comments should include a description of the function or event, its parameters, and its return values.

Retest

This is fixed. NatSpec comments have been properly implemented.

6. The Disclosure -----

The Reports provided by CredShields are not an endorsement or condemnation of any specific project or team and do not guarantee the security of any specific project. The contents of this report are not intended to be used to make decisions about buying or selling tokens, products, services, or any other assets and should not be interpreted as such.

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