

RITA AI Smart Contract Auditor

Renewable Energy Token

0x10b9dd394467f2cfbc769e07e88dc7e2c41b0965

Detailed Security Audit

Critical Functions Check

| Issue Description | Checking Status |
|--|-----------------|
| Compiler errors | Passed |
| Race conditions and Reentrancy, Cross-function race conditions | High Risk |
| Possible delays in data delivery | Passed |
| Oracle calls | Passed |
| Front running | Passed |
| Timestamp dependence | Low Risk |
| Integer Overflow and Underflow | Low Risk |
| Dos with Revert | Low Risk |
| Dos with block gas limit | Low Risk |
| Methods execution permissions | Low Risk |
| Economy model of the contract | High Risk |
| The impact of the exchange rate on the logic | Passed |
| Private user data leaks | Passed |
| Malicious Event log | Passed |
| Scoping and Declarations | Passed |
| Uninitialized storage pointers | Passed |
| Arithmetic accuracy | Low Risk |
| Design Logic | Passed |
| Cross-function race conditions | Passed |
| Safe Open Zeppelin contracts implementation and usage | Passed |
| Fallback function security | Low Risk |
| Unsafe delegatecall usage | Passed |
| Unrestricted public functions | Passed |
| Potential infinite loops | Low Risk |
| High gas consumption operations | Low Risk |
| Unsafe send/transfer usage | Low Risk |

Risky Functions Details

Function: reentrancy

Critical reentrancy vulnerability detected, risking multiple function calls during a single transaction

Function: timestamp

Potential timestamp dependence detected, risking manipulation of block timestamps for malicious behavior

Function: permissions

Potential insecure method execution permissions detected, risking unauthorized access

Function: economy

Critical economy model issue with fees (tax, liquidity, charity) detected, may lead to unexpected behavior or exploitation

Function: loops

Potential infinite loops detected, risking contract freezing or high gas costs

Function: gas

Potential high gas consumption operations detected, risking transaction failures or DoS attacks

Function: send/transfer

Potential unsafe send/transfer usage detected, risking reentrancy or fund loss



This audit was conducted and prepared by RITA AI