









# RITA AI Smart Contract Auditor Renewable Energy Token

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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

Verify this report at: [https://raw.githubusercontent.com/RETOKENofficial/RITA/main/audit\\_0x10b9dd394467f2cfbc769e07e8](https://raw.githubusercontent.com/RETOKENofficial/RITA/main/audit_0x10b9dd394467f2cfbc769e07e8)