

# Smart Contract Security Audit Report

### ELECTRIFYASIA

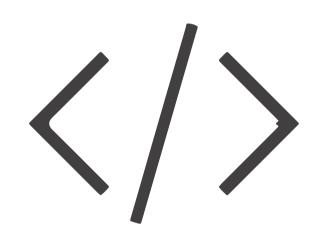
April 2023



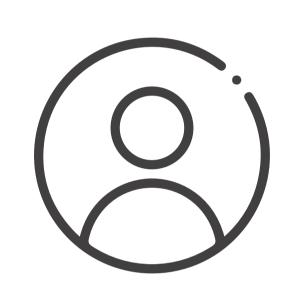
### Audit Details



### Audited project ELECTRIFYASIA

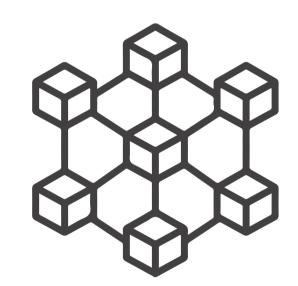


**Deployer address**0xbec9533a89c3b8058827da1b046018c70ff7a1f4



### Client contacts

ELECTRIFYASIA team



### Blockchain

Ethereum



### Website

https://electrify.asia/

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### Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the below disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

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### Procedure

#### Step 1 - In-Depth Manual Review

Manual line-by-line code reviews to ensure the logic behind each function is sound and safe from various attack vectors. This is the most important and lengthy portion of the audit process (as automated tools often cannot find the nuances that lead to exploits such as flash loan attacks).

#### Step 2 - Automated Testing

Simulation of a variety of interactions with your Smart Contract on a test blockchain leveraging a combination of automated test tools and manual testing to determine if any security vulnerabilities exist.

#### Step 3 – Leadership Review

The engineers assigned to the audit will schedule meetings with our leadership team to review the contracts, any comments or findings, and ask questions to further apply adversarial thinking to discuss less common attack vectors.

#### Step 4 - Resolution of Issues

Consulting with the team to provide our recommendations to ensure the code's security and optimize its gas efficiency, if possible. We assist project team's in resolving any outstanding issues or implementing our recommendations.

#### Step 5 - Published Audit Report

Boiling down results and findings into an easy-to-read report tailored to the project. Our audit reports highlight resolved issues and any risks that exist to the project or its users, along with any remaining suggested remediation measures. Diagrams are included at the end of each report to help users understand the interactions which occur within the project.

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# Background

#### HackSafe was commissioned by ELECTRIFYASIA to perform an audit of smart contracts:

• https://etherscan.io/token/0xd49ff13661451313ca1553fd6954bd1d9b6e02b9#code

#### The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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### Contract Details

### Token contract details for 06.04.2023

Type	: DEFI
Contract name	: ElecTokenSmartContract
Contract address	: 0xD49ff13661451313cA1553fd6954BD1d9b6E02b9
Total supply	: 749,999,945.27241852077513
Token Ticker	: ELEC
Decimals	: 18
Token Holders	: 127,481
Transactions count	: 188,632
Compiler version	: v0.4.19+commit.c4cbbb05
Contract deployer address	: 0xbec9533a89c3b8058827da1b046018c70ff7a1f4
Owner address	: 0X2471ec648db9eb3e63dbbe1396782b3c6f7a3787

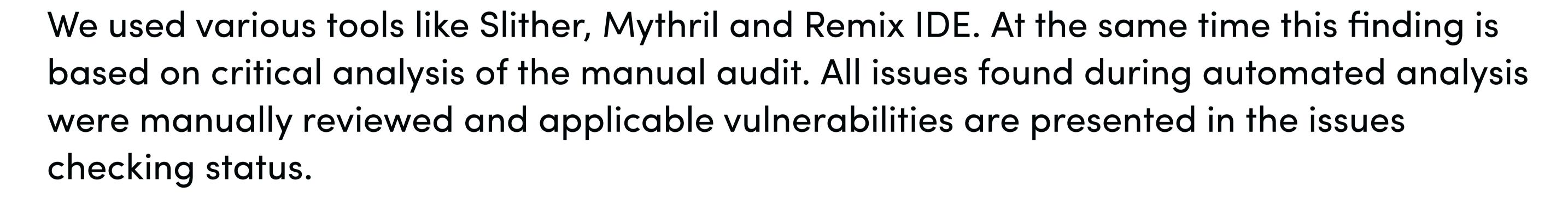
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# Audit Summary

According to the standard audit assessment, Customer`s solidity smart contracts are "Secure". This token contract does contain owner control, which do not make it fully decentralized as owner does have control over smart contract.

Insecure Poor secured Secure Well-secured

You are here



We found 0 critical, 0 high, 0 medium and 0 low and some very low-level issues. These issues are not critical ones.

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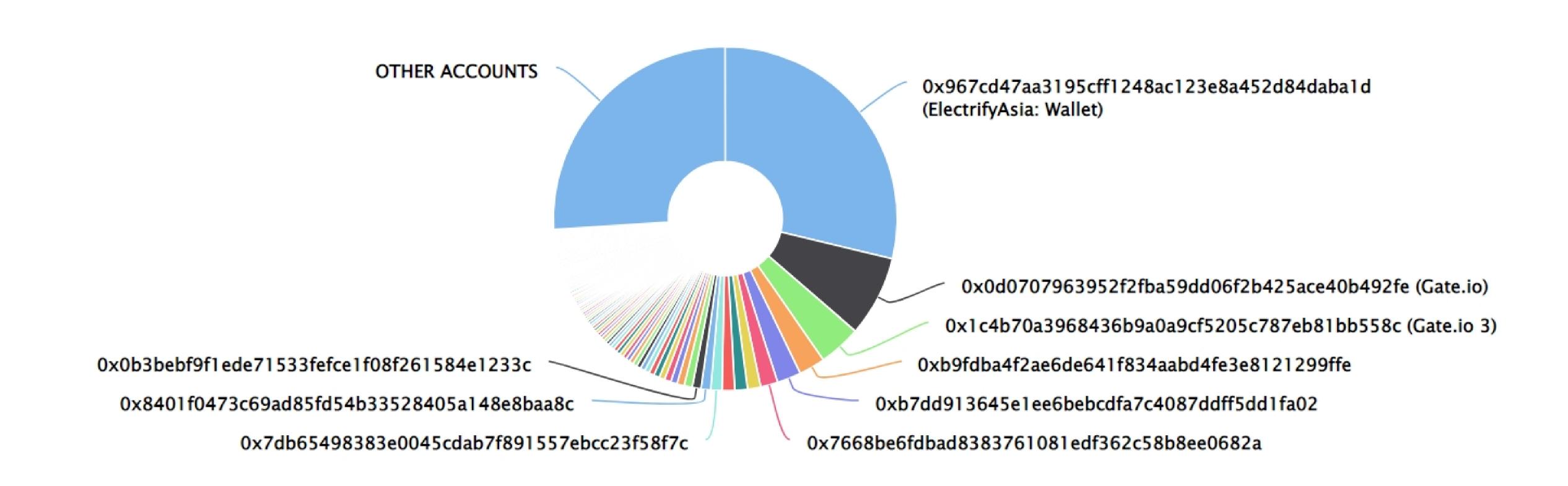
### **ELECTRIFYASIA Token Distribution**

The top 100 holders collectively own 73.99% (554,955,740.37 Tokens) of ElectrifyAsia

Token Total Supply: 749,999,945.27 Token | Total Token Holders: 127,481

#### ElectrifyAsia Top 100 Token Holders

Source: Etherscan.io



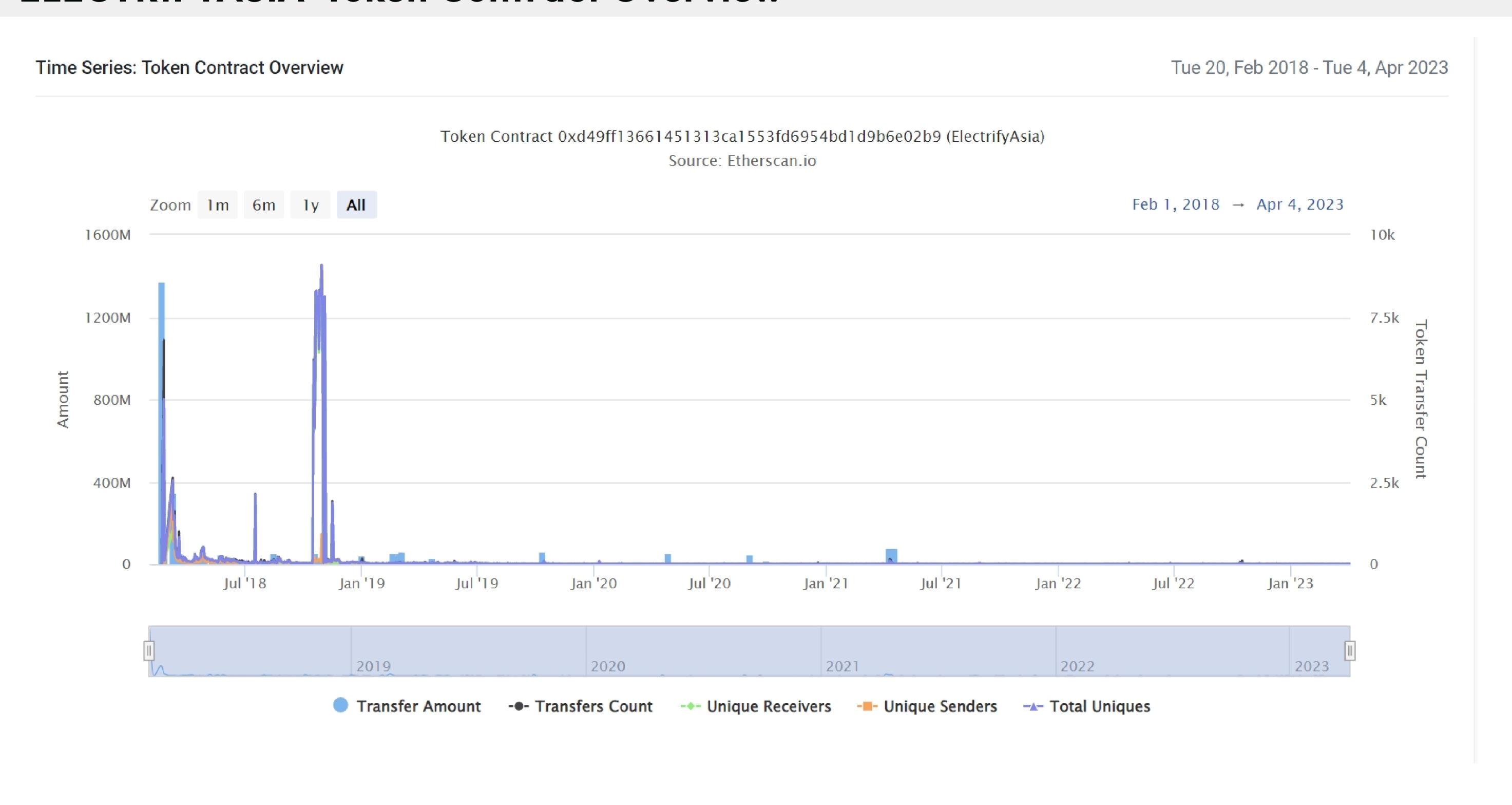
### **ELECTRIFYASIA Token Top 20 Token Holders**

(A total of 554,955,740.37 tokens held by the top 100 accounts from the total supply of 749,999,945.27 token)

Rank	Address	Quantity (Token)	Percentage
1	ElectrifyAsia: Wallet 📮	215,639,862.2	28.7520%
2	Gate.io 🗗	56,978,985.544015608435119876	7.5972%
3	Gate.io 3 📮	30,000,000.00000001700312488	4.0000%
4	0xB9fdbA21299FfE	18,527,231.66132404	2.4703%
5	0xB7DD915dD1fA02 📮	17,034,000.5142235	2.2712%
6	0x7668BE8Ee0682a 📮	11,979,445.141092611	1.5973%
7	0x6C0E717f4DD965 📮	9,370,777.846141068	1.2494%
8	0x554fddd159250F 🕩	8,875,000	1.1833%
9	0x832c32Fd0f41Db 🕒	8,875,000	1.1833%
10	0x7dB65423F58f7c 🕩	8,062,435.25708308	1.0750%
11	0x8401f08e8baa8C 🕩	6,743,284.941156255498683753	0.8991%
12	0x0B3beb84e1233c 🕩	6,161,744.3566371504104421	0.8216%
13	IDEX C	5,783,311.636982738491441558	0.7711%
14	0x09AdE54DaFbC55	5,174,541.8752	0.6899%
15	0xdDE96F677Abd91 📮	4,545,292	0.6060%
16	0xa5A1d59F84CD31 📮	4,465,347	0.5954%
17	0x620DdCc9B89BFc 📮	4,000,000	0.5333%
18	0xB325014d816BF6 🕒	4,000,000	0.5333%
19	0x0060d0e5f721c2 📮	3,750,830.35	0.5001%
20	0x95ba6fD15E138F 🕒	3,438,517.66508	0.4585%

## ELECTRIFYASIA Token Distribution

#### **ELECTRIFYASIA** Token Contract Overview



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### Contract functions details

```
+[Lib] SafeMath
    -[Int] mul
    -[Int] div
    -[Int] sub
    -[Int] add
+ERC20Basic
    -[Pub] balanceOf
    -[Pub] transfer #
+ERC20 (ERC20Basic)
    -[Pub] allowance
    -[Pub] transferFrom #
    -[Pub] approve #
+BasicToken (ERC20Basic)
    -[Pub] transfer #
    -[Pub] balanceOf
+StandardToken (ERC20, BasicToken)
    -[Pub] transferFrom #
    -[Pub] approve #
    -[Pub] allowance
+Ownable
    -[Pub] Ownable
    -[Pub] transferOwnership #
     -modifiers: onlyOwner
+ElecTokenSmartContract (StandardToken, Ownable)
    -[Pub] ElecTokenSmartContract#
    -[Pub] transfer #
     -modifiers: onlyWhenTransferEnabled, validDestination
    -[Pub] transferFrom #
     -modifiers: onlyWhenTransferEnabled, validDestination
    -[Pub] burn #
     -modifiers: onlyWhenTransferEnabled
    -[Pub] emergencyERC20Drain #
     -modifiers: onlyOwner
($) = payable function
# = non-constant function
```

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# Issues Checking Status

No.	Title	Status
1.	Compiler error	Passed
2.	Missing Input Validation	Passed
3.	Race conditions and Reentrancy. Cross-function race conditions.	Passed
4.	Possible delays in data delivery	Passed
5.	Oracle calls.	Passed
6.	Timestamp dependence.	Passed
7.	Integer Overflow and Underflow	Passed
8.	DoS with Revert.	Passed
9.	DoS with block gas limit.	Passed
10.	Methods execution permissions.	Passed
11.	Economy model of the contract.	Passed
12.	Private use data leaks.	Passed
13.	Malicious Event log.	Passed
14.	Scoping and Declarations.	Passed
15.	Uninitialized storage pointers.	Passed
16.	Arithmetic accuracy.	Passed
<b>17.</b>	Design Logic.	Passed
18.	Safe Open Zeppelin contracts implementation and usage.	Passed
19.	Incorrect Naming State Variable	Passed
20.	Too old version	Passed

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# Severity Definitions

Risk Level	Description
Critical	Critical vulnerabilities are usually straightforward to exploit and can lead to assets loss or data manipulations.
High	High-level vulnerabilities are difficult to exploit; however, they also have a significant impact on smart contract execution, e.g., public access to crucial functions
Medium	Medium-level vulnerabilities are important to fix; however, they can't lead to assets loss or data manipulations.
Low	Low-level vulnerabilities are mostly related to outdated, unused, etc. code snippets that can't have a significant impact on execution.

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# Security Issues

- Critical Severity Issues
   No critical severity issue found.
- High Severity IssuesNo high severity issue found.
- Medium Severity Issues
   No Medium severity issues found.
- Low Severity IssuesNo low severity issue found.

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### Centralization

### Owner privileges (In the period when the owner is not renounced)

- ELECTRIFYASIA Contract:
  - Owner can transfer tokens.

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### Conclusion

Smart contract contains no medium severity issues! Liquidity pair contract's security is not checked due to out of scope.

HackSafe note: Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.

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