Cosmoflux Smart Contract

Overview

Cosmoflux (CSX) is a TRC-20 token on the TRON blockchain, designed as an energy token for content creation on the Pollify platform.
It features an automatic burn mechanism that reduces token supply when media content is created.

Token Details

Total Supply: 1,000,000,000 CSX
Blockchain: TRON (TRC-20)
Purpose: Content creation energy token with auto-burn mechanics

Smart Contract Functions

1. Auto-Burn Function
   - Triggers a system-controlled burn when media content is generated.
   - Ensures scarcity and sustainable tokenomics.

2. Scheduled Burn (Governance-Controlled)
   - Allows scheduled burns based on financial milestones.
   - Executed via governance decisions.

3. Governance Proposal Mechanism
   - Enables users to propose updates to Cosmofluxs economic model.
   - Supports future introduction of complementary utility tokens.

Security & Compliance

- Ownable: Admin-controlled contract with limited permissions.
- Transparent: Burn mechanisms are executed on-chain.
- Audit-Ready: Follows OpenZeppelin best practices.

Smart Contract Code

```solidity
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.0;

import "@openzeppelin/contracts/token/TRC20/ITRC20.sol";
```

```
import "@openzeppelin/contracts/access/Ownable.sol";

contract Cosmoflux is ITRC20, Ownable {
    uint256 private constant TOTAL_SUPPLY = 1_000_000_000 * (10 ** 18);

    constructor() ITRC20("Cosmoflux", "CSX") {
        _mint(msg.sender, TOTAL_SUPPLY); // All tokens minted at deployment
    }

    event Burn(address indexed burner, uint256 amount);
    event AutoBurn(address indexed system, uint256 amount);
    event GovernanceProposalCreated(address indexed proposer, string proposalDetails);

    function autoBurn(uint256 amount) external onlyOwner {
        require(balanceOf(address(this)) >= amount, "Insufficient CSX for auto-burn");
        _burn(address(this), amount);
        emit AutoBurn(address(this), amount);
    }

    function scheduledBurn(uint256 amount) external onlyOwner {
        require(balanceOf(address(this)) >= amount, "Insufficient CSX for scheduled burn");
        _burn(address(this), amount);
    }

    function proposeNewUtilityToken(string memory proposalDetails) external {
        emit GovernanceProposalCreated(msg.sender, proposalDetails);
    }
}
```

Conclusion

Cosmoflux supports a sustainable, blockchain-driven creative ecosystem by acting as an energy token with controlled burning mechanics.
Its governance mechanisms ensure long-term adaptability within the Pollify platform.