# HVACToken — Whitepaper

📘 Version 1.0 — July 2025

## 1. Introduction

HVACToken is a blockchain-based solution to incentivize energy efficiency in heating, ventilation, and air conditioning (HVAC) systems.   
It rewards all participants of the ecosystem — engineers, installers, manufacturers, and end-users — for actual reductions in energy consumption, validated through IoT and blockchain technology.

## 2. Token Model

• Total Supply: 1,000,000,000 HVAC tokens (fixed)  
• Issuance: 1 HVAC = 10 kWh saved  
• Halving every 100M tokens  
• Data-based issuance via IoT → stored in blockchain → verified → token minted

## 3. Energy Efficiency Standards

The baseline for energy saving calculations is based on the lower threshold of ISO 50001 standards for efficiency:  
- Boilers: 92% efficiency baseline  
- Air Conditioners: SEER 5.5 baseline  
- Ventilation: 75% recovery efficiency

## 4. Token Distribution

• Engineers: one-time reward for high-efficiency system design  
• Installers: one-time reward for verified installation  
• End Users: continuous seasonal token issuance (green mining)

## 5. Platform Features

• Smart calculation of heating/cooling demand  
• Project registration and efficiency tag  
• AI-assisted system configuration and suggestions  
• IoT integration for real-time energy tracking

## 6. Token Utility

• Mutual settlements in ecosystem  
• Advertising & catalog features  
• Manufacturer rewards  
• Future goal: direct payment for energy with HVAC tokens

## 7. Mission and Sustainability Goals

HVACToken promotes sustainability, CO2 reduction, and accelerated ROI for energy-efficient systems by creating a real economic value for energy saving.

## 8. Roadmap Summary

• Q3 2025 — Team formation, pitch deck, whitepaper  
• Q4 2025 — MVP, smart contracts, pilot integrations  
• Q1 2026 — Public launch and token listing  
• 2026+ — Energy payment features and ecosystem expansion