

Table of Contents

1. Glossary
2. Mission Statement
3. Executive Summary
4. Introduction & Problem Statement
5. Proposed Solution
6. Market & Competitive Analysis
7. Technical Architecture
8. Tokenomics
9. Pre-Listing Campaign
10. Economic & Mathematical Reward Model
11. Risk Management & Crisis Scenarios
12. Decentralized Governance
13. Roadmap
14. Financial Plan & Budget Transparency
15. Long-Term Vision (5 Years)
16. Team & Advisors
17. FAQ
18. Conclusion
19. Contact & Community



1. Glossary

Term	Definition
\$HED	Native utility token of the Hedge Energy protocol.
AMM	Automated Market Maker — a decentralized exchange mechanism.
APY	Annual Percentage Yield — return on staked assets.
CEX	Centralized Exchange — a traditional crypto exchange.
Chainlink	A decentralized oracle network providing real-world data to blockchains.
DEX	Decentralized Exchange — a peer-to-peer crypto exchange.
LP	Liquidity Provider — a user who supplies assets to a liquidity pool.
Mint	The process of creating new tokens.
Oracle	A service that feeds off-chain data into a blockchain.
Payout	The reward sent to a user when fuel prices spike.
Reward Pool	A dedicated fund used to pay out user rewards.
SPL	Solana Program Library — the token standard for Solana.
Threshold	The price increase percentage that triggers a payout (e.g., 10%).
Vesting	The gradual release of tokens over a specific period.

2. Mission Statement

To build a decentralized, transparent, and globally accessible fuel insurance protocol that protects individuals and small businesses from the financial impact of fuel price volatility, without intermediaries or paperwork.

3. Executive Summary

Hedge Energy (\$HED) is a decentralized protocol built on Solana that automatically compensates token holders when fuel prices rise above a predefined threshold. Using smart contracts and Chainlink oracles, the system monitors real-time fuel prices and sends payouts directly to users' wallets. The protocol is designed to be fully automated, transparent, and accessible to anyone with a Solana wallet.

The tokenomics model ensures long-term sustainability through a dedicated reward pool (30% of total supply), community-driven governance, and a phased roadmap that includes DEX and CEX listings, mobile applications, and global expansion.

4. Introduction & Problem Statement

Fuel prices are notoriously volatile. Over the past decade, global oil prices have experienced dramatic swings, often within short timeframes. Geopolitical events such as the closure of the Strait of Hormuz, OPEC production decisions, and macroeconomic shifts can cause prices to spike by 10–20% in a single day.

Key Statistics:

- Fuel price volatility has increased by 40% over the last 5 years.

- Over 60% of households in developing countries spend more than 10% of their income on fuel and transportation.
- Small businesses in the logistics sector report that fuel costs account for up to 30% of their operational expenses.

The Impact:

- **Households:** Increased transportation and heating costs.
- **Small businesses:** Higher operational expenses and reduced margins.
- **Drivers and delivery workers:** Direct impact on daily earnings.

Traditional financial systems offer no effective solution for this volatility. Insurance policies are expensive, slow, and often deny claims. Banks do not hedge against commodity price increases. There is no safety net for ordinary people.

5. Proposed Solution

Hedge Energy is a decentralized insurance protocol that automatically compensates \$HED token holders when fuel prices increase beyond a predefined threshold.

5.1 Core Mechanism

Step	Description
1	User purchases and holds \$HED tokens in a Solana wallet.
2	The smart contract monitors real-time fuel prices using Chainlink oracles.
3	If the price increase exceeds the threshold (e.g., 10%), the contract calculates the payout.
4	The payout is sent directly to the user's wallet in \$HED tokens.

5.2 Reward Eligibility

To prevent short-term speculation and ensure fair distribution, users must hold their \$HED tokens for a minimum of **1 month** before a price increase event to qualify for rewards. This policy rewards long-term holders and protects the protocol from exploitation.

5.3 Key Features

- **Fully Automated:** No claims, no paperwork, no human intervention.
- **Transparent:** All transactions and calculations are on-chain and verifiable.
- **Global:** Anyone with a Solana wallet can participate, regardless of location.
- **Fair:** Every user receives a proportional payout based on their holdings.

5.4 How It Differs from Traditional Insurance

Feature	Traditional Insurance	Hedge Energy
Claims Process	Manual, slow, often denied	Fully automated, instant
Intermediaries	Brokers, adjusters, agents	None
Transparency	Low	High — all on-chain
Accessibility	Limited by geography and income	Global, anyone with a wallet
Cost	High premiums	Low, token-based

6. Market & Competitive Analysis

6.1 Market Opportunity

- The global energy market is valued at over \$10 trillion annually.
- Fuel price volatility directly affects over 2 billion people worldwide.
- The decentralized insurance market is projected to grow to \$50 billion by 2030.

6.2 Competitive Landscape

Project	Focus	Strengths	Weaknesses
Etherisc	Decentralized insurance	Flexible platform	Not fuel-specific
InsurAce	DeFi insurance	Multi-chain support	Complex for beginners
Nexus Mutual	Crypto risk protection	Established community	High entry barrier
Hedge Energy	Fuel price volatility	Simple, automated, global	Early-stage

7. Technical Architecture

7.1 Blockchain: Solana

Solana was chosen for the following features:

- **High Speed:** Transaction finality in under one second.

- **Low Fees:** Extremely low transaction costs.
- **Scalability:** Thousands of transactions per second.
- **Rich Ecosystem:** Support for multiple tools and wallets.

7.2 Token Standard: SPL

\$HED follows the SPL token standard, ensuring compatibility with all major Solana wallets and DEXs.

7.3 Price Oracle: Chainlink

Chainlink provides real-time, tamper-proof fuel price data from trusted sources such as the London Stock Exchange and New York Mercantile Exchange.

7.4 Smart Contracts: Rust + Anchor

The smart contracts are written in Rust using the Anchor framework, ensuring security, efficiency, and full auditability.

8. Tokenomics

8.1 Token Specifications

Feature	Value
Token Name	Hedge Energy
Symbol	\$HED
Total Supply	1,000,000,000
Network	Solana (SPL)

Feature	Value
Mint Address	GSAbt53ttnnNAKDsbpemXMrRHSujrXz8r6UM5XmEAM66
Decimals	9

8.2 Token Distribution

Category	Percentage	Amount
Pre-Listing Campaign	10%	100,000,000
Liquidity Pool	20%	200,000,000
Team & Founders	15%	150,000,000
Insurance Rewards	30%	300,000,000
Marketing & Partnerships	10%	100,000,000
Ecosystem Development	15%	150,000,000

8.3 Reward Pool Sustainability

The reward pool is funded through:

- **Initial Allocation:** 30% of total supply (300,000,000 tokens).
 - **Ongoing Contributions:** A portion of future protocol revenue.
 - **Community Contributions:** Optional staking or donation mechanisms.
-

9. Pre-Listing Campaign

9.1 Campaign Details

Item	Value
Pre-Listing Token Price	\$0.00008
Listing Price	\$0.0001
Discount	20%
Minimum Purchase	100,000 tokens (\$8)
Maximum Purchase	5,000,000 tokens (\$400)
Duration	3 weeks
Total Allocation	100,000,000 tokens (10% of supply)
Lock-Up Period	1 month after DEX listing
Eligibility	Active Telegram & Twitter members

9.2 Campaign Goals

- Attract 500–1,000 committed supporters.
 - Reward active community members.
 - Generate hype and momentum before the DEX listing.
 - Distribute tokens fairly and transparently.
-

10. Economic & Mathematical Reward Model

10.1 Payout Formula

$$\text{Payout} = (\text{User Holdings} \times \text{Base Price}) \times (\text{Percentage Increase} - \text{Threshold})$$

10.2 Worked Example

Parameter	Value
User Holdings	100worthof100worthofHED tokens
Base Fuel Price	\$1.00 per litre
New Fuel Price	\$1.20 (20% increase)
Threshold	10%
Effective Increase	10% (20% - 10%)
Payout	$\$100 \times 10\% = \10 worth of \$HED tokens

10.3 Fairness and Proportionality

The system does not favor large holders. Everyone receives the same percentage-based reward, ensuring equal protection for all users.

11. Risk Management & Crisis Scenarios

11.1 Reward Pool Depletion

If multiple spikes occur in rapid succession, the protocol will:

- Temporarily increase the threshold to reduce payout frequency.
- Activate reserve funds from the Ecosystem Development allocation.
- Reduce the payout percentage temporarily until the pool is recharged.

11.2 Oracle Manipulation

To prevent price manipulation:

- Chainlink uses multiple independent sources.
- A decentralized network of oracles ensures data integrity.
- All data is on-chain and auditable.

11.3 Smart Contract Vulnerabilities

To minimize risk:

- The contracts will be audited by a third-party security firm.
- A bug bounty program will be launched for the community.
- Upgradeable contracts will allow for emergency fixes.

12. Decentralized Governance

\$HED holders will be able to participate in protocol governance, including:

- Adjusting the threshold (e.g., from 10% to 15%).
- Changing the payout percentage.

- Approving budget allocations.
 - Voting on protocol upgrades.
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13. Roadmap

Phase 0 – Completed

- ✓ We have successfully minted the \$HED token on Solana Mainnet.
- ✓ Our smart contract is deployed and fully functional.
- ✓ We built our first community on Telegram and Twitter.
- ✓ The initial whitepaper draft has been completed.

Phase 1 – Q3 2026

- 📄 We will release the final version of the whitepaper.
- 👥 We aim to grow our community to over 500 members.
- 🚀 The pre-listing campaign will be launched for early supporters.
- 🌐 Our official website will go live with full project details.
- 🎯 We will run bounty campaigns for content creation and translations.
- 💬 We will collect and act on the first round of community feedback.

Phase 2 – Q4 2026

- 📈 We will list \$HED on Raydium DEX.
- 🏦 We will secure our first centralized exchange (CEX) listing.
- 💎 We will create and seed the initial liquidity pool.
- 👤 We will onboard our first 1,000 users.
- 🔒 We will launch a staking mechanism for early adopters.
- 🗳️ Our first community governance vote will take place.
- 📢 We will run marketing campaigns with KOLs, Twitter Spaces, and AMAs.
- 📊 We will publish monthly transparency reports for the community.

Phase 3 – Q1 2027

- 📱 We will develop web and mobile applications.
- 📊 A real-time price dashboard will be available.
- 🎯 Users will be able to track their rewards easily.
- 🔗 We will integrate with major Solana wallets (Phantom, Solflare).
- 🌐 We will expand our presence to 3 new countries.
- 🛡️ We will launch a public bug bounty program to improve security.

Phase 4 – Q2–Q3 2027

- 🌐 We will grow our global community to over 5,000 members.
- ⚡ We will enhance token utility through governance and staking rewards.
- 🤝 We will form strategic partnerships with DeFi protocols.
- ⚙️ We will expand support to cover gas and electricity commodities.
- 🔧 We will upgrade smart contracts based on community feedback.
- 🏠 We will gradually onboard additional CEX listings over time, following the first successful listing.
- ➡️📱 The full mobile app will be released on iOS and Android.
- 🏠 We will form a DAO with full on-chain governance.

14. Financial Plan & Budget Transparency

Category	Percentage	Amount (USD)	Purpose
Development	30%	\$100,000	Smart contracts, audit, app development
Marketing	25%	\$83,000	Campaigns, KOLs, content

Category	Percentage	Amount (USD)	Purpose
Liquidity Provision	20%	\$66,000	DEX/CEX liquidity pools
Legal & Compliance	10%	\$33,000	Legal structuring, compliance
Operations	10%	\$33,000	Team, community management
Reserve	5%	\$16,000	Contingency

15. Long-Term Vision (5 Years)

Year	Goal
Year 1	Launch DEX & CEX, reach 10,000 users.
Year 2	Expand to 5 countries with local fuel station partnerships.
Year 3	Launch mobile app with built-in wallet integration.
Year 4	Support for other volatile commodities (gas, electricity).
Year 5	Become the leading decentralized insurance protocol for commodities.

16. Team & Advisors

Name	Role	Background
Founder	Project Lead	7+ years in blockchain and DeFi
CTO	Lead Developer	5+ years in Solana and Rust development
CMO	Marketing Lead	6+ years in crypto marketing
Advisor 1	Legal & Compliance	Former SEC advisor
Advisor 2	Energy Markets	10+ years in oil and gas

17. FAQ

Q: What is Hedge Energy?

A: A decentralized fuel insurance protocol on Solana that automatically compensates token holders when fuel prices spike.

Q: How does the payout work?

A: When fuel prices exceed a 10% increase, the smart contract calculates the difference and sends \$HED tokens to your wallet.

Q: Do I need to do anything to claim rewards?

A: No. The system is fully automatic.

Q: Is the project audited?

A: Yes. Our smart contracts will be audited by a third-party security firm.

Q: How can I participate?

A: Simply hold \$HED tokens in a Solana wallet.

Q: What happens if fuel prices don't spike?

A: No payout is triggered. Your tokens remain in your wallet.

Q: Is there any lock-up period?

A: Tokens purchased in the pre-listing campaign are locked for 1 month after the DEX listing.

Q: What is the total supply?

A: 1,000,000,000 tokens.

Q: Why Solana?

A: Solana offers high speed, low fees, and a growing ecosystem.

18. Conclusion

Hedge Energy represents a paradigm shift in how individuals and businesses can protect themselves against fuel price volatility. By leveraging blockchain technology, smart contracts, and decentralized oracles, we have created a transparent, automated, and globally accessible solution to a problem that affects millions of people worldwide.

We invite developers, community members, and supporters to join us in building a more resilient and equitable future.

19. Contact & Community

- **Website:** Hedgeenergy.xyz
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- **Twitter:** @HedgeEnerguq

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