CHRG

A Decentralised EV Charging Protocol

The CHRG Team

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The Problem

- Arkansas r**anks last** overall in electric vehicle charging **infrastructure**

- Only about 200 charging stations over 38 counties

- Lack of EV adoption statewide

- No incentive for owners to allow public use of chargers

Our Vision

- Deploy a distributed network of public-use EV chargers

- Incentivise use of charging stations

- Help Arkansas become a global leader in transportation

- Create the first permissionless network and **community** of EV drivers, charger owners, charger hosts and manufacturers

The CHRG Network

- **Types of CHRG Network Participants**
  - **Drivers** - End users of the charging stations
  - **Owners -** Users who own and operate charging stations
  - **Hosts -** Users who provide a public place for charging stations to be operated
  - **Miners** - Users who opt to share traffic data
  - **Networkers -** Users who are issued carbon credits for their contribution to the network (EV Manufacturers, Electric Companies, Charger Manufacturers)
- **The CHRG Charging Node** - The initial chargers that the network will support, developed by the CHRG team to ensure a successful deployment
- **CHRG Wallet** - Intuitive mobile app containing the map, wallet, staking, validating
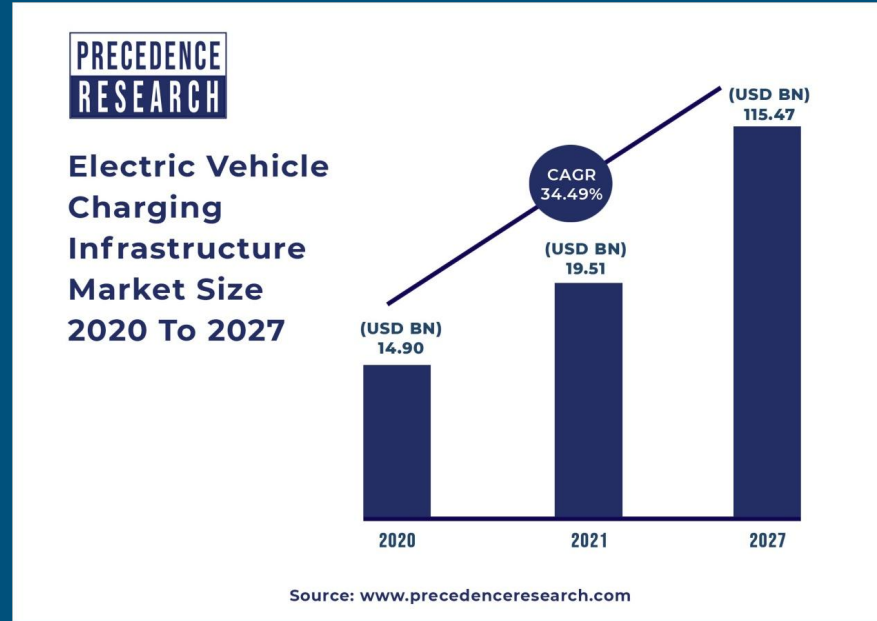
Products

The CHRG Charging Node

- Solar and grid powered
- QR Code and NFC
- Runs blockchain node

The CHRG Wallet

- Digital identity for private use
- Map of charging stations
- Mining mode

Worldwide EV Charging Market

- Overall EV infrastructure market size to grow **over 600%** over the next 5 years

- U.S. Departments of Transportation and Energy to **allocate $54.4 million** to EV charging and **infrastructure** in Arkansas (NEVI)

PRECEDENCE RESEARCH

Electric Vehicle Charging Infrastructure Market Size 2020 To 2027

CAGR 34.49%

(USD BN) 14.90

(USD BN) 19.51

(USD BN) 115.47

2020 2021 2027

Source: www.precedenceresearch.com

The Competition and Competitive Advantages

- **Competition**
  - Electric Vehicle Direct Currency (EVDC)
  -

- **Competitive Advantages**
  - Two-Token System
  - Proof-of-Stake Network Consensus
  - Enhanced network decentralisation
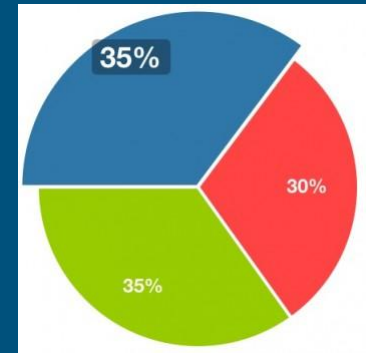 - Concentrated deployment region

Initial Token Distribution

Total Supply: 20,000,000

Data Sharing Rewards
20.0%

Team
5.0%
Bounty Incentives
5.0%

Token Distribution Pool
70.0%
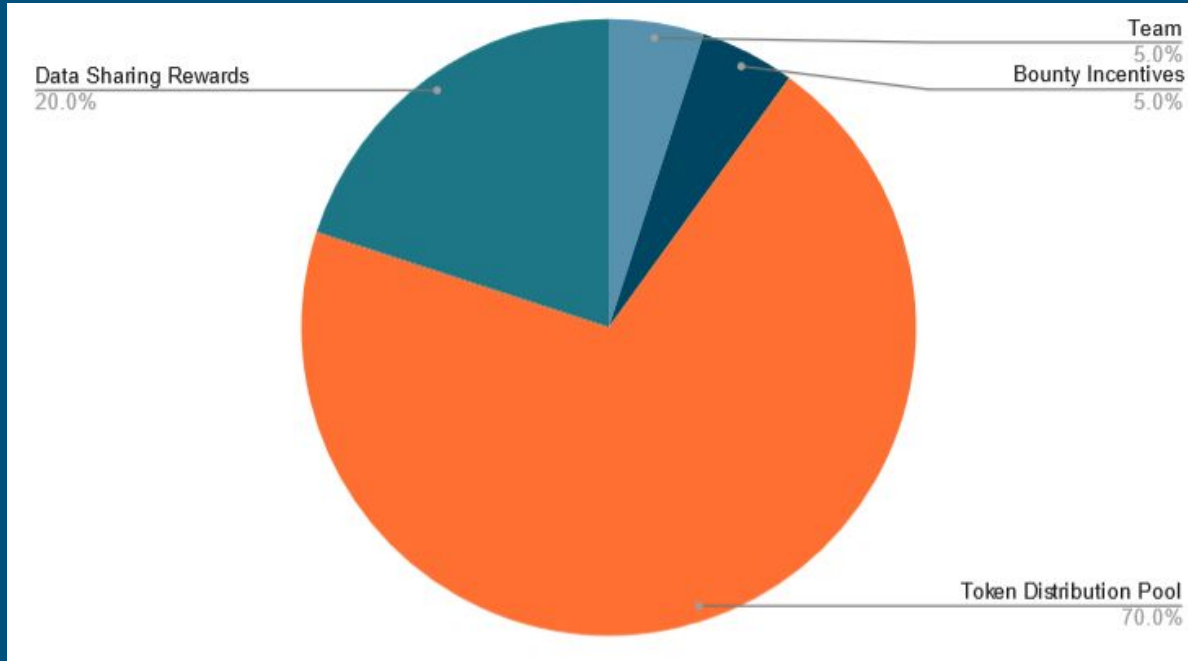
Token Distribution Pool

- 35% to Owners
- 30% to Hosts
- 35% to Miners

35%
30%
35%

Network Dynamics

Two Token System:

- **$CHRG** - Native token of the CHRG ecosystem - ICO price of $.25/$CHRG
- **$CCT** - (Carbon Credit Token) - Token used to pay for EV charging services, Stablecoin pegged at the cost of $10 USD

Burn-Mint Equilibrium: $CHRG is burned to mint $CCT and interact with chargers. $CCT can only be spent within the **CHRG** ecosystem and must be spent to allow for mint of new $CHRG tokens

Nodes: Software optimized to run on **SBC** (Single Board Computer) hardware. Housed inside the chargers and powered by small and efficient solar panels. Stores the entire history of the **CHRG** network and transactions

Validators: Located in the **CHRG** Wallet app. Validate $CCT transactions through **NFC/QR code** to verify use of node. Users can stake tokens for voting power in peer to peer transaction validation

Expenses and Forecasting

Blockchain and Mobile App Development	$20K - $30K	Phase 1 3 - 6 months
Charger Development	$200K	Phase 2 4-6 months
Testnet Incentive Expenses	$15K	Phase 3 2 to 4 months
Marketing and Promotion	$80K	Funding for social media campaigns and paid promotion
Payroll Expenses	$300K	Funding for one year of startup payroll

Token Price vs. Users
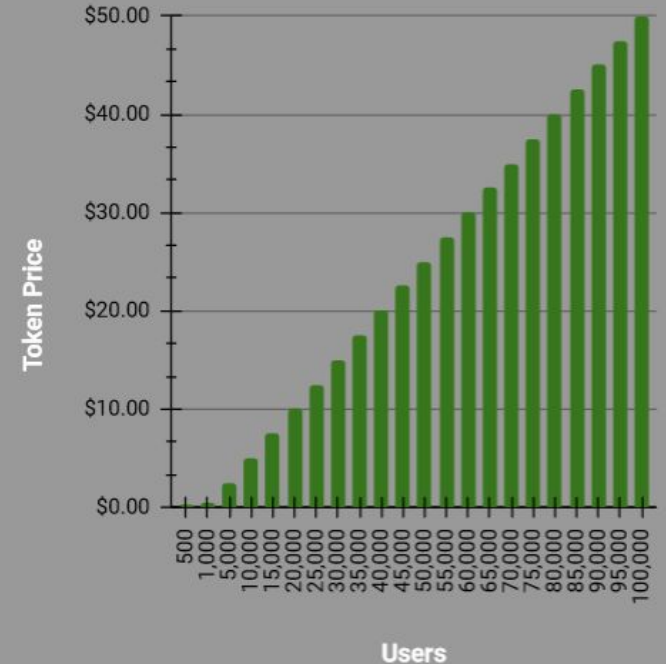
Thank You for Believing in Arkansas