

One block contains:

User ID

Initial Carbon Footprint

Challenge ID

Proof of Reduction

New Carbon Footprint

Carbon Credits assigned

## CarbonSmart Rewards Challenge Hub

[Register](#)[Challenges](#)[About](#)

# CARBONSMART REWARDS CHALLENGE HUB

REVOLUTIONIZING ENVIRONMENTAL ACTION THROUGH BLOCKCHAIN

[Learn More](#)

CARBON



## USER REGISTRATION

Users can register on the platform by providing their Ethereum address and personal details. This ensures the transparency and security of their environmental actions.



## PROOF SUBMISSION

To earn carbon credits, participants need to provide evidence of their efforts in reducing their carbon footprint. This can include utility bills, travel records, photos of eco-friendly practices, and receipts for sustainable product purchases.



## CARBON FOOTPRINT CALCULATION

Users complete a detailed questionnaire about their lifestyle choices, covering aspects like energy usage, transportation, waste management, diet, and more. The platform calculates their carbon footprint based on their responses, providing an insightful overview of their environmental impact.



## CHALLENGES AND REWARDS

EcoChallengeHub hosts a variety of challenges, each with specific carbon reduction targets. Users can explore challenges tailored to their preferences and join them. The challenges are categorized into easy, medium, and hard levels, each with different carbon reduction goals.



## BLOCKCHAIN BASED VALIDATION

The platform employs blockchain technology to ensure the authenticity of submitted proof. Other participants in the challenge validate the proofs, promoting trust and reducing the risk of fraudulent claims.



## CARBON CREDIT REWARDS

Upon successful validation, participants receive carbon credits based on their achieved reduction and challenge level. These credits are securely recorded on the blockchain and can be exchanged or sold to organizations seeking to offset their carbon emissions.



## ENVIRONMENTAL IMPACT TRACKING

Users can monitor their personal environmental impact over time. The platform provides insights into how their choices affect the environment and offers suggestions for further improvement.

## COMMUNITY ENGAGEMENT

CarbonSmart Rewards Challenge Hub fosters a sense of community by connecting like-minded individuals and organizations dedicated to environmental sustainability. Participants can share their achievements, collaborate on challenges, and collectively work towards a greener planet.

## BLOCKCHAIN-POWERED TRUST

CarbonSmart Rewards Challenge Hub utilizes blockchain technology to securely validate carbon reduction efforts, ensuring transparency and trust among participants, and enabling the secure exchange of carbon credits.

## ABOUT US

CarbonSmart Rewards Challenge Hub is an innovative platform that harnesses the power of blockchain technology to promote sustainable living, environmental awareness, and carbon reduction. It offers a comprehensive ecosystem for individuals and organizations to actively participate in reducing their carbon footprint, earn carbon credits, and contribute to a greener, more sustainable future. CarbonSmart Rewards Challenge Hub brings a gamified approach to environmental conservation. By participating in challenges and earning carbon credits, users are motivated to adopt sustainable practices and reduce their carbon footprint. The blockchain ensures transparency and security, making it a trusted platform for environmental action. Join CarbonSmart Rewards Challenge Hub and embark on a journey towards a more sustainable and eco-conscious lifestyle. Make a difference, reduce your carbon footprint, and earn rewards while contributing to a healthier planet.



# User Registration

Ethereum Address:

Name:

[Register](#)[Calculate Carbon Footprint](#)

## User Registration

Ethereum Address:

Name:

[Register](#)[Calculate Carbon Footprint](#)

User registered with transaction hash: 0xe33a7af48289098697bb1b1af9952e3fbe7ae55f65b6fbe50db8e8e4a89a4e3

## Lets Calculate your current Carbon Footprint

**Age?**

32

**Country?**

India

**How do you heat your home?**

Natural gas

**How do you cool your home?**

Air conditioning

**How energy-efficient is your home?**

Energy-efficient appliances and insulation

**How do you commute to work or school?**

Car (solo)

**How often do you fly for leisure or business?**

Frequently



What type of vehicle do you drive?

Electric vehicle

Do you follow a vegetarian or vegan diet?

Yes

How often do you buy products second-hand?

Always

How often do you buy products with minimal packaging?

Always

How often do you take long-haul vacations?

Frequently

How do you travel on vacation?

Air travel

How long are your showers on average?

Less than 5 minutes

How often do you water your lawn or garden?

Daily

Do you turn off lights and appliances when not in use?

Always

Do you use energy-efficient light bulbs?

Yes

Do you use a programmable thermostat for heating/cooling?

Yes

How often do you dispose of electronic devices properly (recycling)?

Always

How often do you upgrade your electronic devices?

Annually

Do you use energy-efficient appliances?

Yes

ECO Hotel

Have you insulated your home for energy efficiency?

Yes

Do you use public transportation for local travel?

Always

How many miles do you drive per day for local trips?

None

How much food do you throw away?

Minimal waste

Do you buy food in bulk to reduce packaging?

Always

Do you use renewable energy sources (e.g., solar panels)?

Yes

Do you actively reduce water and electricity usage in your home?

Yes

**Do you recycle paper products?**

Always

**Do you print double-sided and avoid excessive printing?**

Always

**Do you actively reduce single-use plastics (e.g., shopping bags, water bottles)?**

Always

**Do you use reusable containers and bags for groceries and takeout?**

Always

**Do you participate in carbon offset programs (e.g., tree planting)?**

Always

**Do you support organizations that promote sustainability and carbon reduction?**

Always

**How many miles do you drive per year?**

None



Always

Do you participate in carbon offset programs (e.g., tree planting)?

Always

Do you support organizations that promote sustainability and carbon reduction?

Always

How many miles do you drive per year?

None

Do you carpool or use rideshare services for commuting?

Always

Do you actively support eco-friendly and sustainable brands and products?

Always

Do you participate in local environmental initiatives or clean-up efforts?

Always

Calculate Carbon Footprint

## Lets Calculate your current Carbon Footprint

Your Carbon Footprint is 4 metric tons of CO2e. Added to block hash:  
8f4c0f3a9a9f0a6a9f0a6a9f0a6a9f0a6a9f0a6a9f0a6a9f0a6a9f0a6a9f0a6a

## View Challenges

Age?

**ANSWER**

## **Country?**

[View Details](#)

How do you heat your home?

#### Natural gas

**How do you cool your home?**

#### Air conditioning

#### How energy-efficient is your home?

#### **Energy-efficient appliances and insulation**

How do you commute to work or school?

### Car (solo)

# CarbonSmart Rewards Challenges



*2 month Challenge*

**Reduce your  
carbon  
footprint by  
10%**

**50 Carbon  
Credits**



*4 months Challenge*

**Reduce your  
carbon  
footprint by  
40%**

**100 Carbon  
Credits**



*12 month Challenge*

**Reduce your  
carbon  
footprint by  
70%**

**200 Carbon  
Credits**

# Credits

## **Register for Challenge**

EASY



## *4 month challenge*

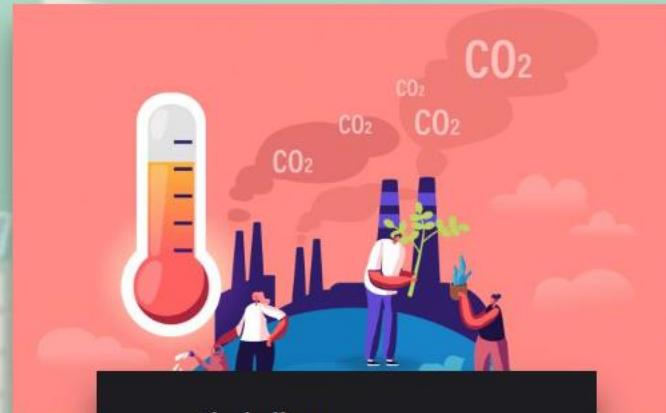
# Reduce your carbon footprint by **25%**

50 Carbon

# Credits

## **Register for Challenge**

MED



7 month challenge

# Reduce your carbon footprint by **50%**

100 Carbon

## Credits

## **Register for Challenge**

## HARD



## *16 month challenge*

# Reduce your carbon footprint by **85%**

200 Carbon



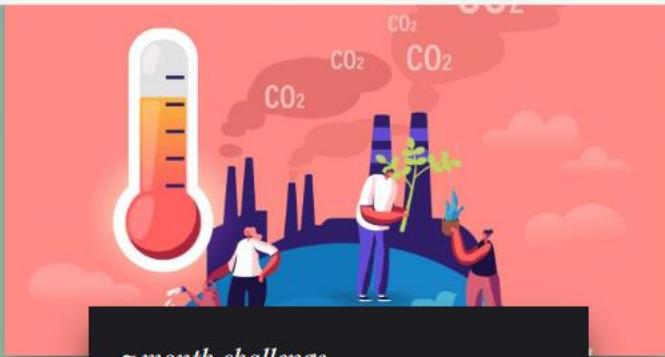
*4 month challenge*

**Reduce your  
carbon  
footprint by  
25%**

**50 Carbon  
Credits**

**Register for Challenge**

**EASY**



*7 month challenge*

**Reduce your  
carbon  
footprint by  
50%**

**100 Carbon  
Credits**

**Register for Challenge**

**MED**



*16 month challenge*

**Reduce your  
carbon  
footprint by  
85%**

**200 Carbon  
Credits**

**Register for Challenge**

**HARD**

# CarbonSmart Rewards Challenges



*2 month Challenge*

# Reduce your carbon footprint by **10%**

50 Carbon



## *4 months Challenge*

**Reduce your  
carbon  
footprint by  
40%**

# 100 Carbon



12 month Challenge

# Reduce your carbon footprint by **70%**

200 Carbon

## Proof of Reduction of Carbon Footprint

Submit various forms of evidence to support your claims. This can include data, photos, receipts, and other documents. For example: Utility bills showing reduced energy consumption. Travel records to demonstrate reduced mileage. Photos of sustainable practices like composting. Receipts from eco-friendly product purchases. Records of participation in carbon offset programs.

**Age?****Country?****How do you heat your home?****Choose a file:** 2023325943.pdf**How do you cool your home?****Choose a file:** No file chosen**How energy-efficient is your home?**

## Proof of Reduction of Carbon Footprint

Submit various forms of evidence to support your claims. This can include data, photos, receipts, and other documents. For example: Utility bills showing reduced energy consumption. Travel records to demonstrate reduced mileage. Photos of sustainable practices like composting. Receipts from eco-friendly product purchases. Records of participation in carbon offset programs.

**Proof of Reduction of Carbon Footprint Submitted Successfully for Validation**

**Once Validated, it will be accepted into the blockchain or rejected, based on which your block will be accepted or rejected and you will receive your rewards.**

**Current Carbon Footprint = 2 metric tons of CO<sub>2</sub>e Reduction = 2 metric tons of CO<sub>2</sub>e**

**Age?**

**Country?**

**How do you heat your home?**

Natural gas



**Choose a file:**

Choose File No file chosen

**How do you cool your home?**

**Choose a file:**

Choose File | No file chosen

**How often do you take long-haul vacations?**

Frequently



**Choose a file:**

Choose File | No file chosen

**How do you travel on vacation?**

Air travel



**Choose a file:**

Choose File | No file chosen

**How long are your showers on average?**

Less than 5 minutes



**Choose a file:**

Choose File | No file chosen

**How often do you water your lawn or garden?**

Daily



**Choose a file:**

Choose File | No file chosen

**Do you turn off lights and appliances when not in use?**

Always



**Choose a file:**

Choose File No file chosen

**How much food do you throw away?**

Minimal waste



**Choose a file:**

Choose File No file chosen

**Do you buy food in bulk to reduce packaging?**

Always



**Choose a file:**

Choose File No file chosen

**Do you use renewable energy sources (e.g., solar panels)?**

Yes



**Choose a file:**

Choose File No file chosen

**Do you actively reduce water and electricity usage in your home?**

Yes



**Choose a file:**

Choose File No file chosen

**Do you recycle paper products?**

Always



**Choose a file:**

Choose File No file chosen

**How many miles do you drive per year?**

None



**Choose a file:**

Choose File No file chosen

**Do you carpool or use rideshare services for commuting?**

Always



**Choose a file:**

Choose File No file chosen

**Do you actively support eco-friendly and sustainable brands and products?**

Always



**Choose a file:**

Choose File No file chosen

**Do you participate in local environmental initiatives or clean-up efforts?**

Always



**Choose a file:**

Choose File No file chosen

**Calculate Carbon Footprint**

# User Blockchain Wallet

Name: Ananya

**Wallet Current Carbon Credit Balance: 0 ETH**

Send

## Receive

## **Validate the Proof of Reduction of Carbon Footprint**

## Validate

**Reject**

32  
India

How do you heat your home?

## Other



How do you cool your home?

How do you cool your home?

Fans



### How energy-efficient is your home?

#### **Energy-efficient appliances and insulation**



127.0.0.1:5500/validate.html

A++  
A+  
A  
B  
C  
D

How do you commute to work or school?

Bicycle/walking

## Accept Block

Age: 32  
India

How do you heat your home?

### Other



How do you cool your home?

Fans



# User Blockchain Wallet

Name: Ananya

**Wallet Current Carbon Credit Balance: 200**

Send

## Receive

# Reject Block

Age: 32  
India

How do you heat your home?

## Other



How do you cool your home?

## Fans



## User Blockchain Wallet

Name: Ananya

**Wallet Current Carbon Credit Balance: 0 ETH**

Send

## Receive