



DES Carbcoin

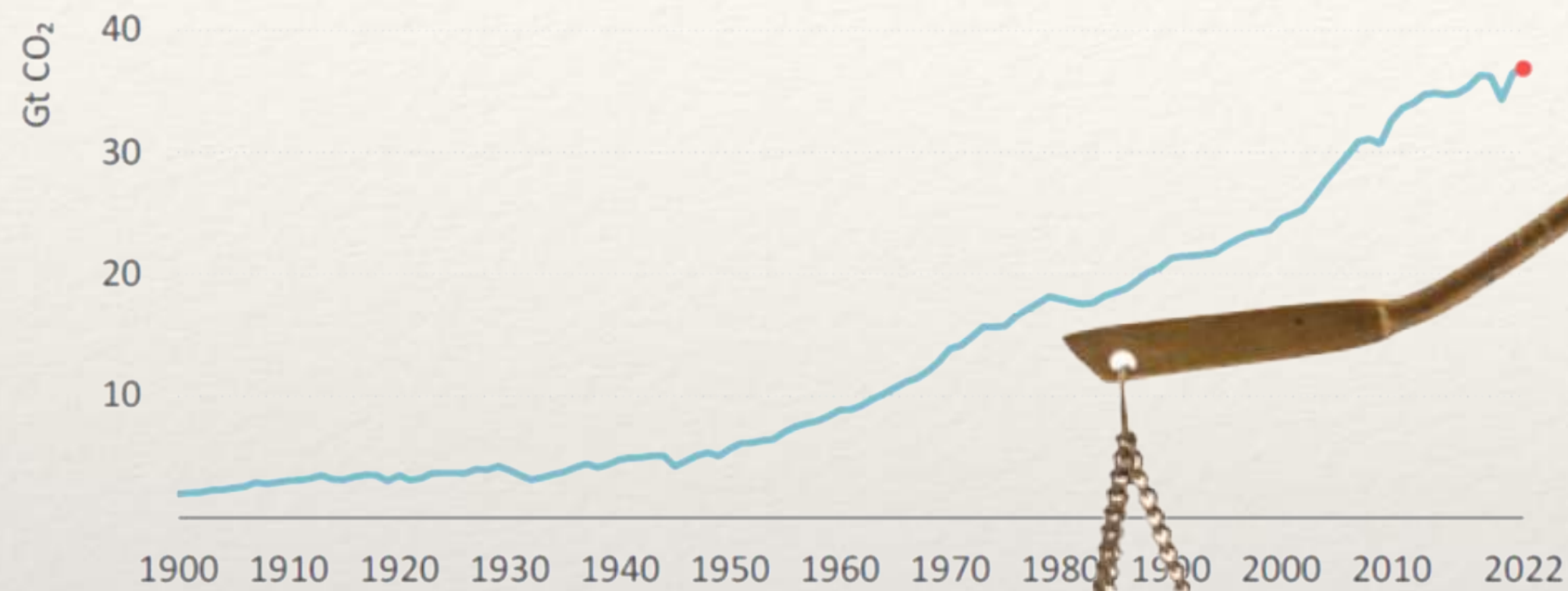
Decentralized Energy Storage Carbcoin

Carbcoin Turns Carbon into Gold
| Jiya Lin | Sep. 2023

How many carbon credits can neutrality?



Figure 1: Global CO₂ emissions from energy combustion and industrial processes and their annual change, 1900-2022



Global carbon dioxide emissions in 2022 near **368 billion tons**

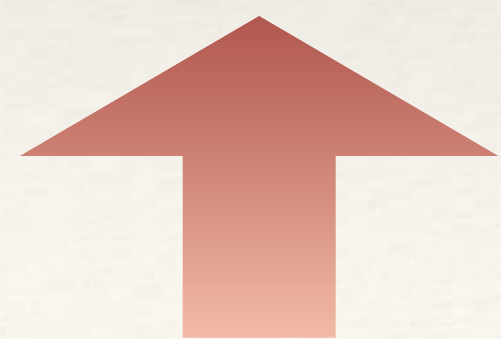
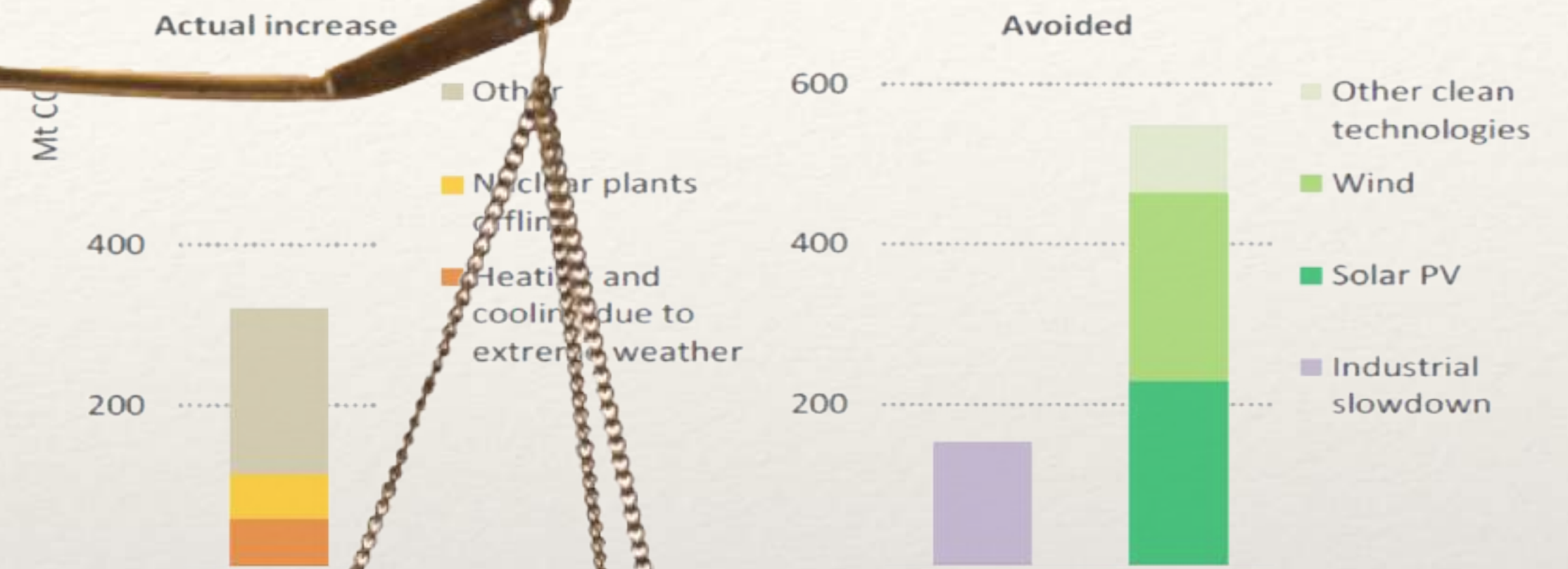


Figure 3: Change in global CO₂ emissions by driver, 2021-2022



Reduces carbon emissions
green energy reduces **0.6 billion**,
carbon sinks absorb **7.6 billion tons**.



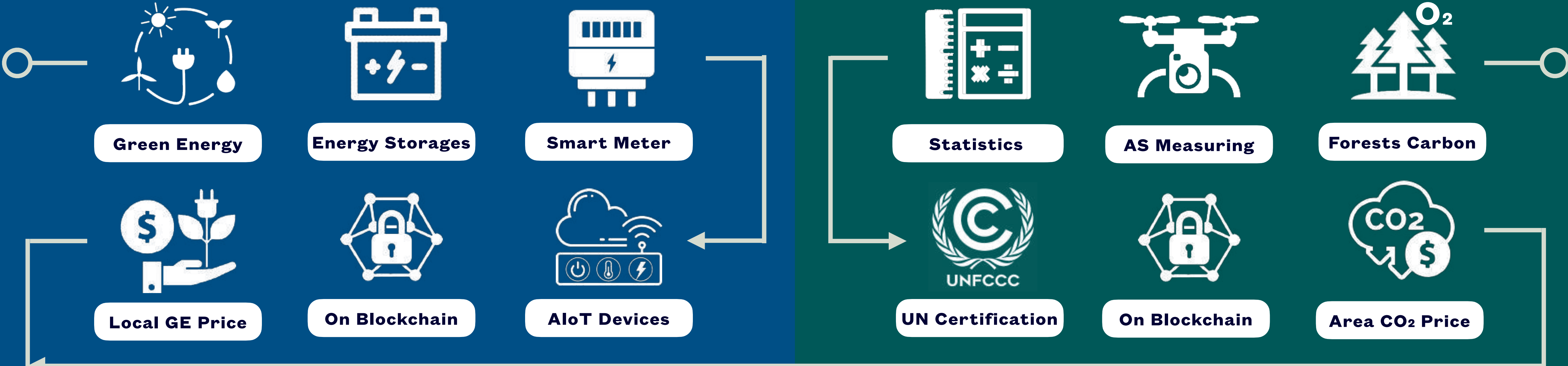
Carbon neutrality (ESG) is like accounting principles. We need to know the sum to balance income and expenses. Carbcoin = the carbon robot of scales by physical blockchain to verify and make sure of fair trading.

The Product-Online (Monetizing carbon credit)



+ Positive carbon reduction (lower CO2)

- Passive carbon reduction (absorb CO2)



Carbcoin solves trust and price questions



The laws of Carbcoin, just like the three laws of robots, solve problems that cannot be solved by traditional economics, systems, and blockchain.

1. Keeps in the law of conservation of matter
2. Electricity Standard = Carbon Pricing = Gold Standard
3. Pure machine certificate, low human intervention



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Carbcoin can be applied in the following industries as carbon pricing and DES monitoring infrastructure, generate multiple profits and reduce carbon emissions.

Factory: Energy saving and carbon inventory.

Farms: Carbon credits sequestration measurement

Cities: Public Facilities and DES Plants

Households: Backup Power and Carbon Credit



Ecosystem Demo of Carbcoin Operation



Now the problems we face are carbon and energy



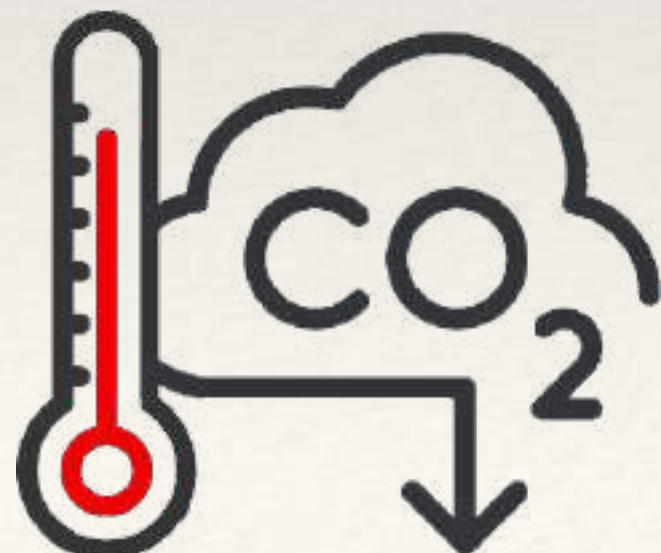
Challenge: After Kyoto Protocol, Paris Agreement is to limit global warming to 1.5°C, along with COP26 to reach net-zero by 2050, but lacking the global carbon trading hub.

The major hassle

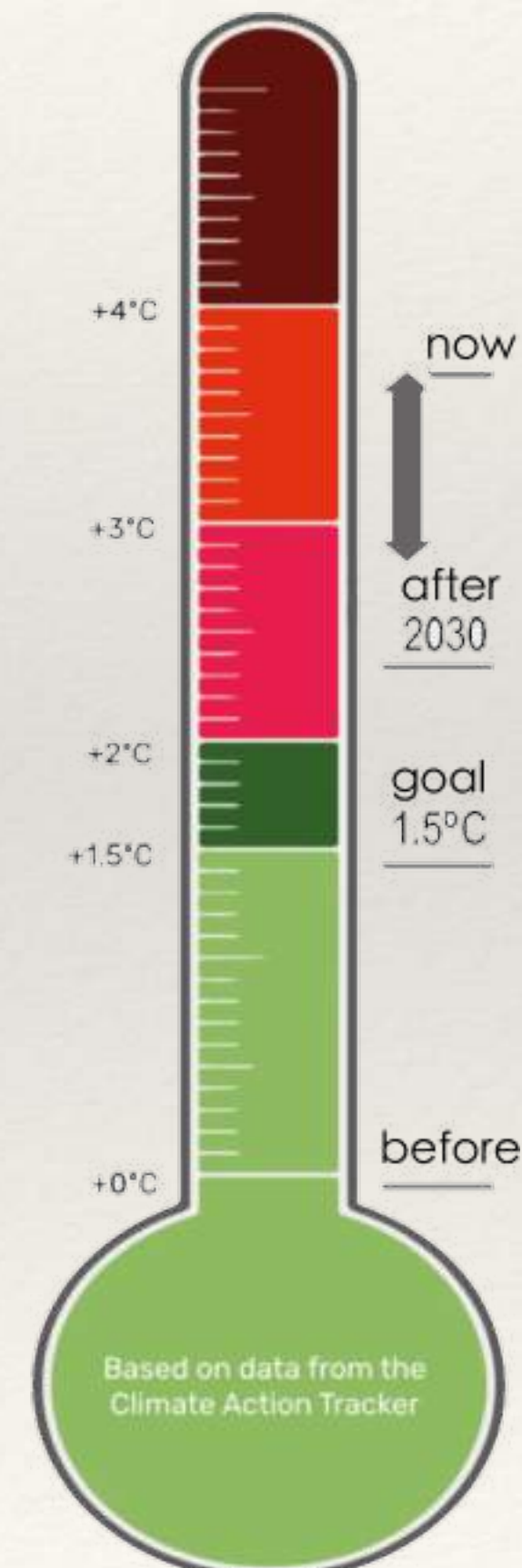


1 Power Outage
Blackout

2 Energy Shortage
Fossil Fuel concerns



3 Global Warming
CO2 emissions



Tackle the challenges

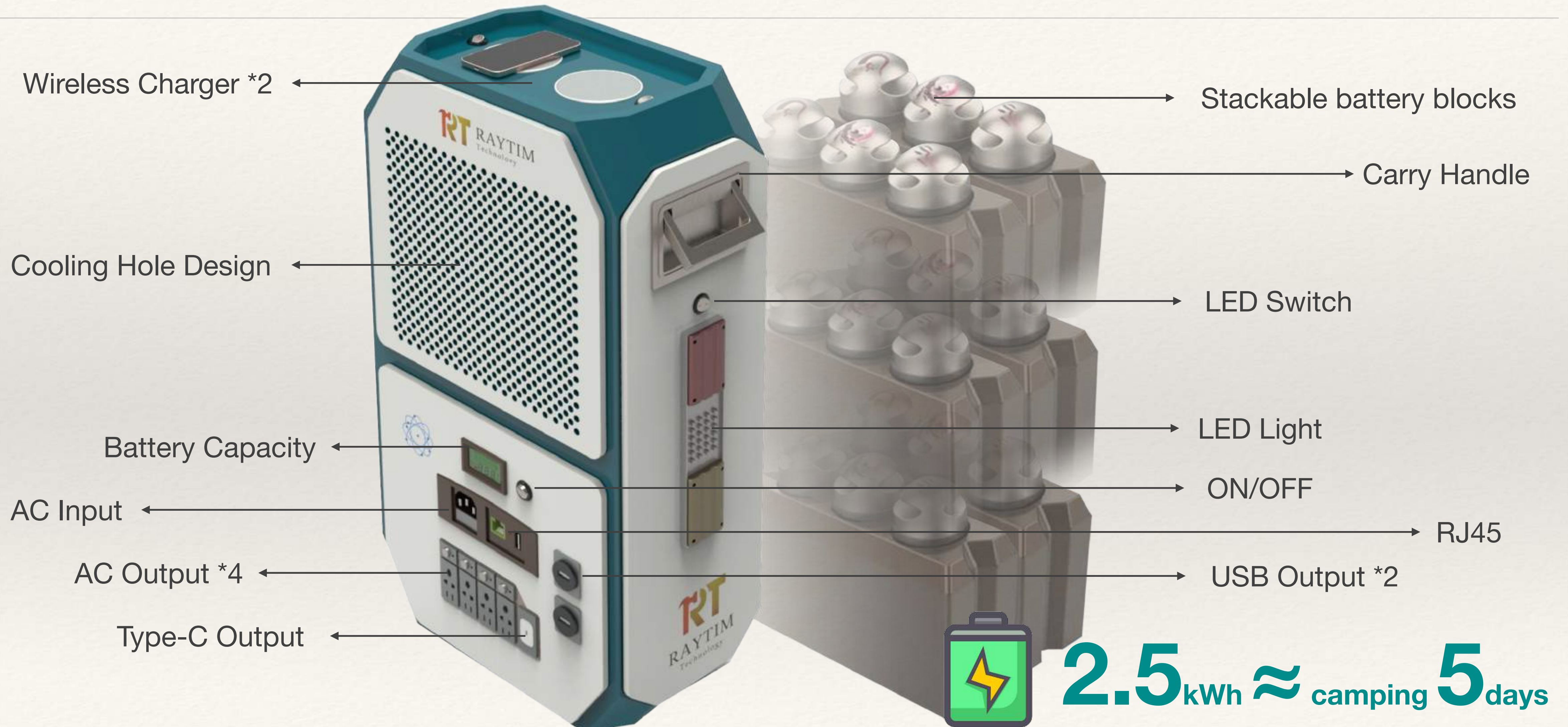


Carbcoin helps deliver carbon trading system to keep the Paris Agreement targets alive along with its distributed green energy system, measuring carbon credit based on real market toward to the decentralized energy future.

- ✓ Q1. Carbon Credit Double counting
- ✓ Q2. Kyoto carryover credits
- ✓ Q3. Overall mitigation
- ✓ Q4. Adaptation share
- ✓ Q5. ESG



Product 1: Mobile Battery Block Storage





Product 2: Mobile Battery Storage





Product 3: Portable Energy Storage

SAY GOODBYE TO POWER OUTAGES



Huge Capacity **2151Wh**
Long Lasting Backup



Superior **Auto-grade Battery**
Safer/Durable/Reliable



Guard with **BMS&MCU**
With 12 Protection Layers



Massive Power **2000W**
Support high-load devices



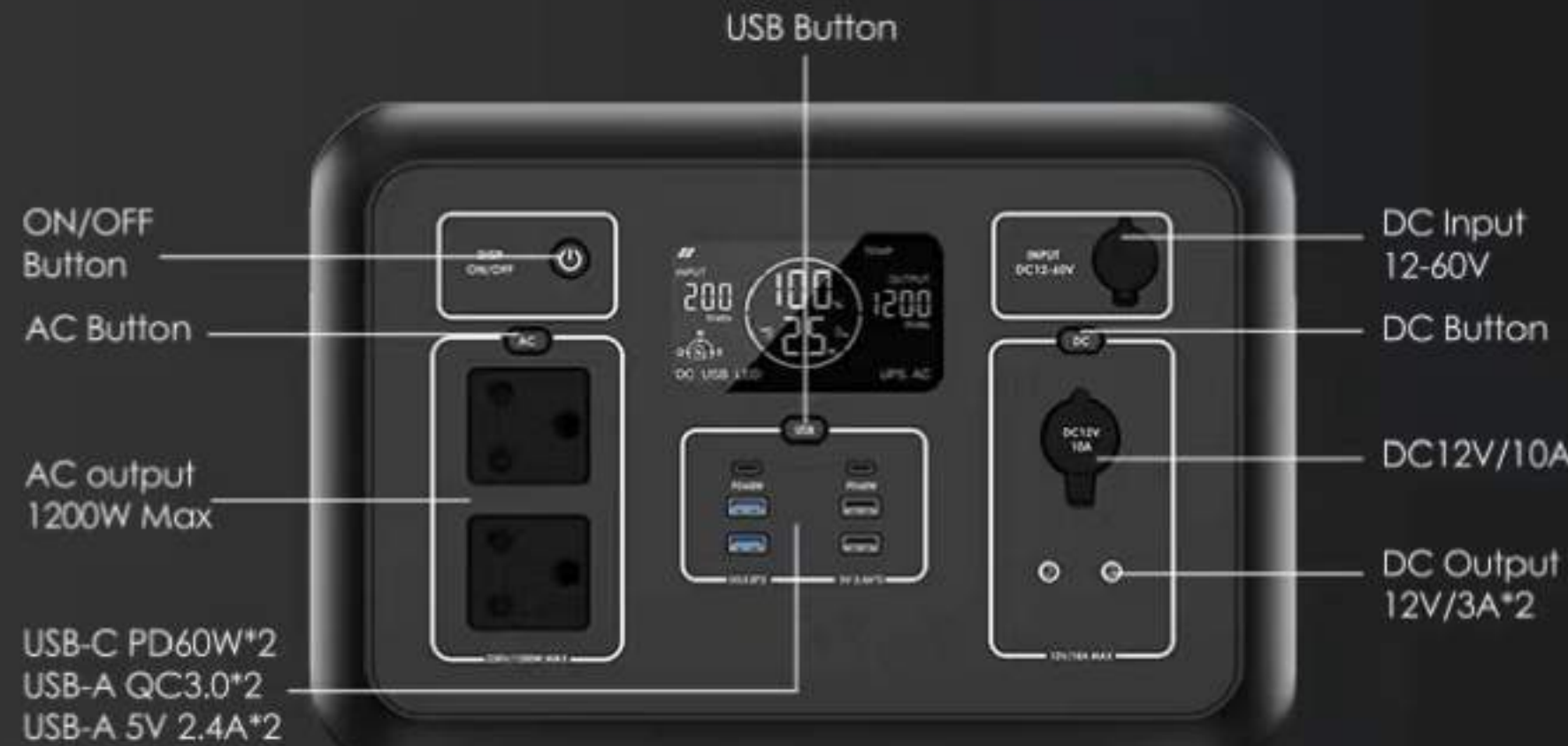
13 Versatile Outlets
Power up to 85% of devices



Optimum **Solar Efficiency**
Full solar recharging in 8 hours

3 WAYS TO RECHARGE

the recharging time frame refers as 0-100%



Q: Quick Charging Mode
1.5-2 Hours

N: Normal Charging Mode
4-5 Hours

S: Silent Charging Mode
7-8 Hours

AC Wall Socket

12V Car Charging
7-8 Hours

24V Car Charging
3.5-4.5 Hours

Car Cigarette Lighter Port

1*200W Solar Panel
7-8 Hours (in full sun)

Solar Charging

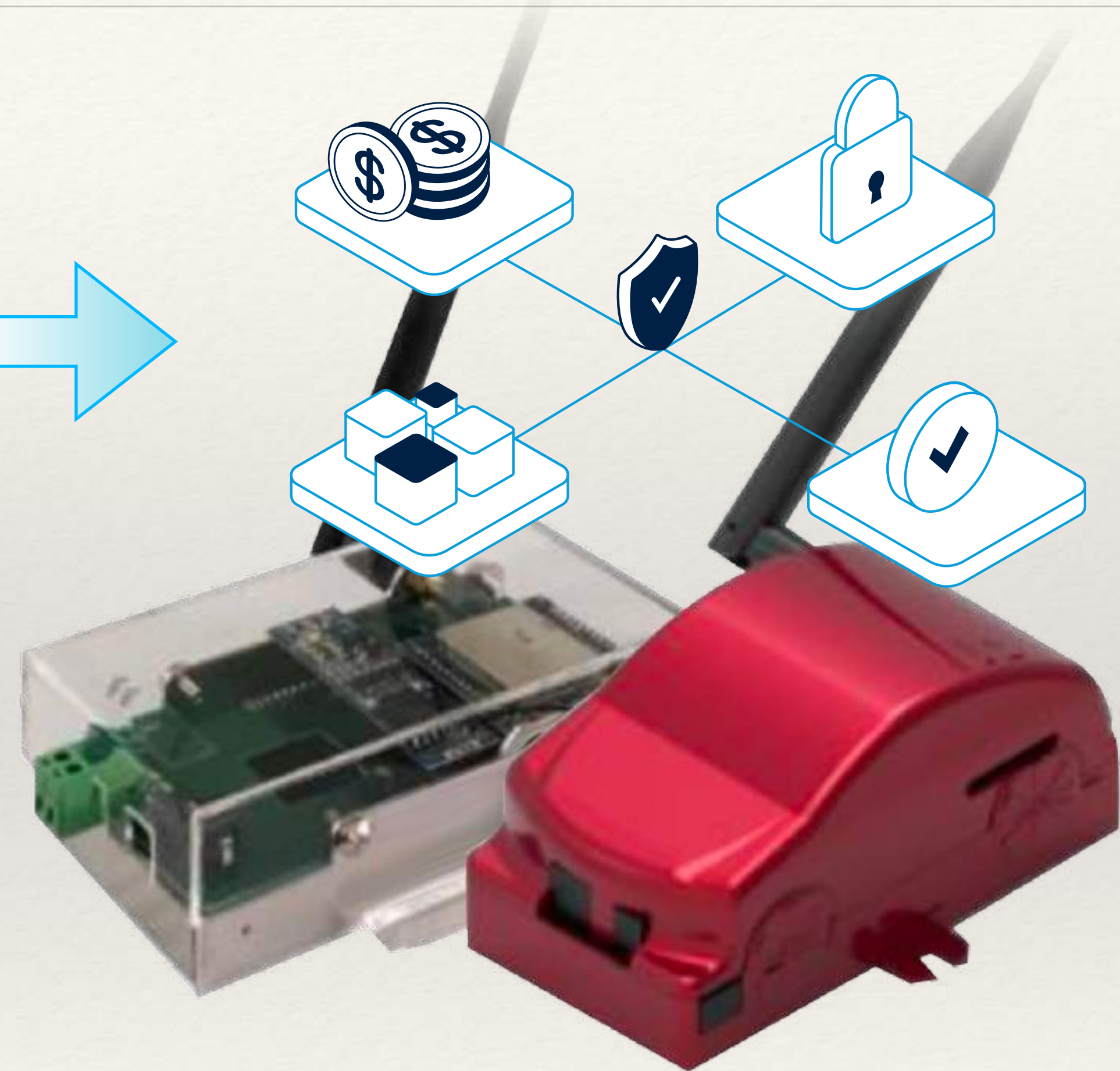
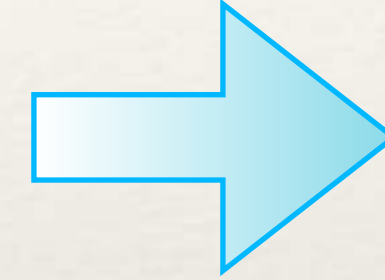




Product 4: Blockchain Node Transmitter



Carbcoin Industrial PC



Wireless Data Transmitter



Product 5: AOI Carbon Sink Drone

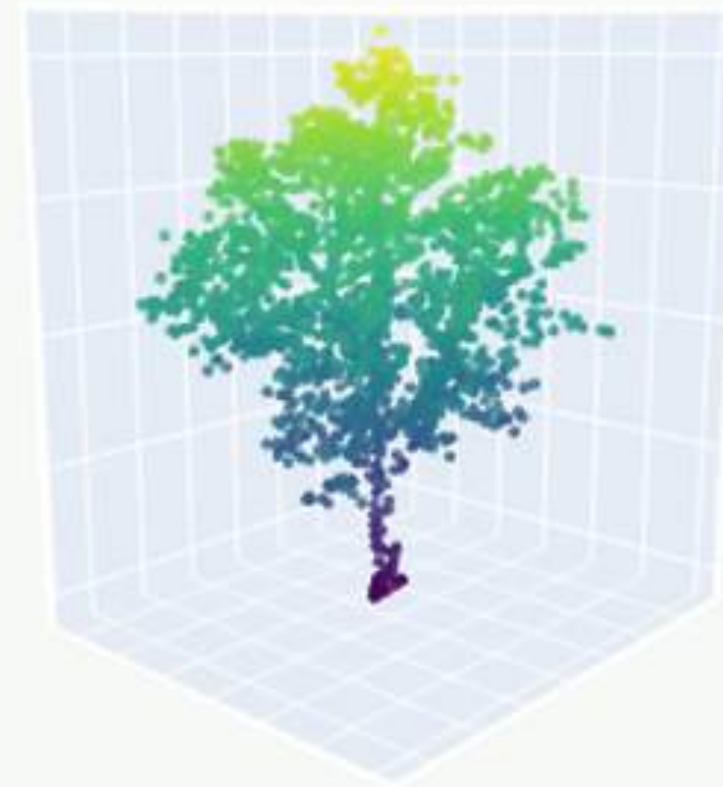
How does it work ?



1: Select your forest



2: AOI drone analyze high-resolution image



3: We measure CO2 sequestration

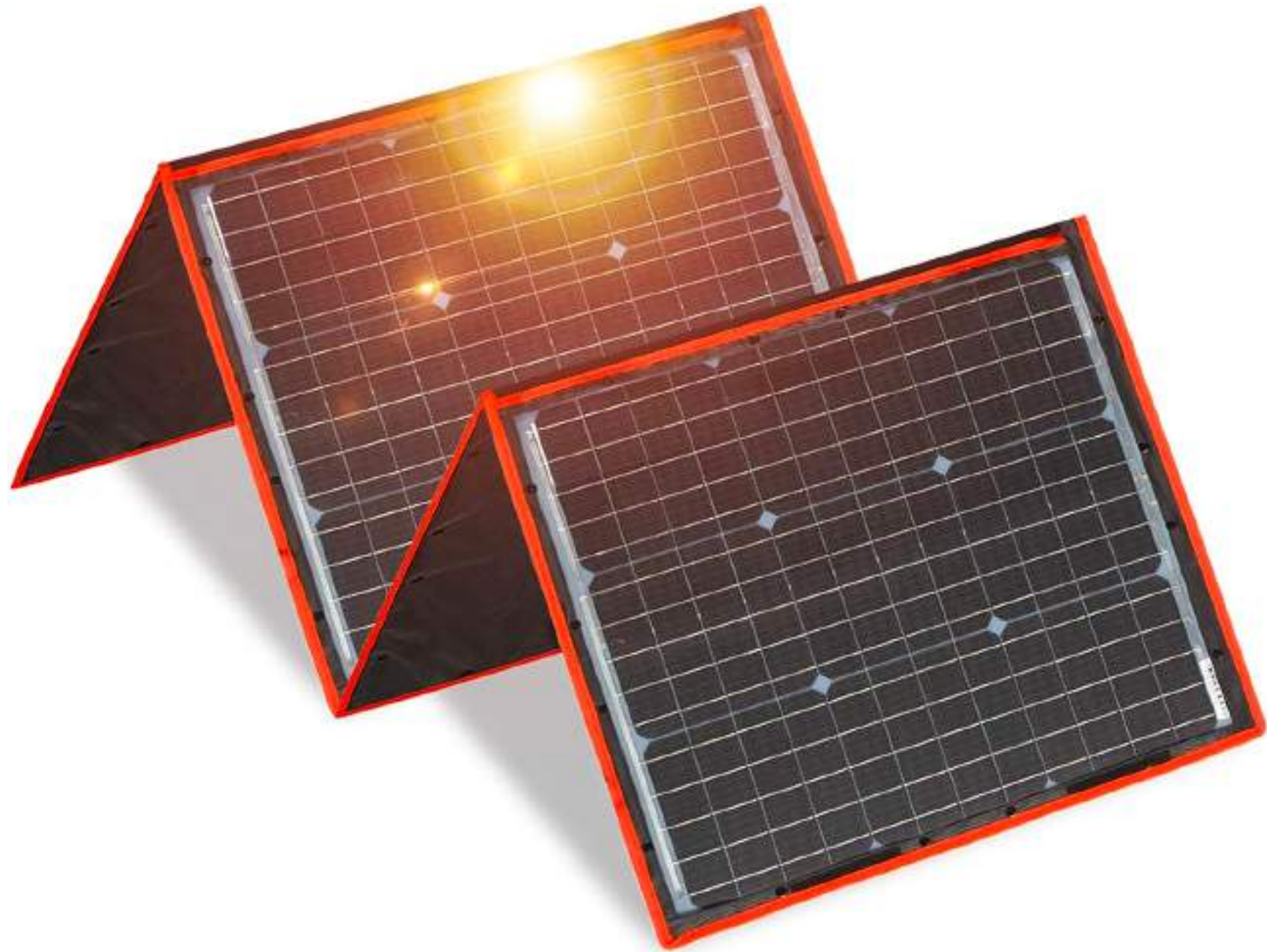


4: Using 3D vision rebuilding CO2 Sequestration Measurements, actuarial and verification on the blockchain.



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Product 6: Foldable Solar Panel



- The cables are 9.84ft, to be long enough to position the panel to catch the best sun and to connect to a device that is not very portable.
- The solar panel has the best charging efficiency at a 90-degree angle to the sunlight.



Product 7: Carbon Data Trading App













Product 8: Solar Cooling & Heating Mat

Heating and Cooling Principle

Using new materials to achieve cooling or heating through the principle of water circulation.
Hydro power separation, safety and Eco-friendly

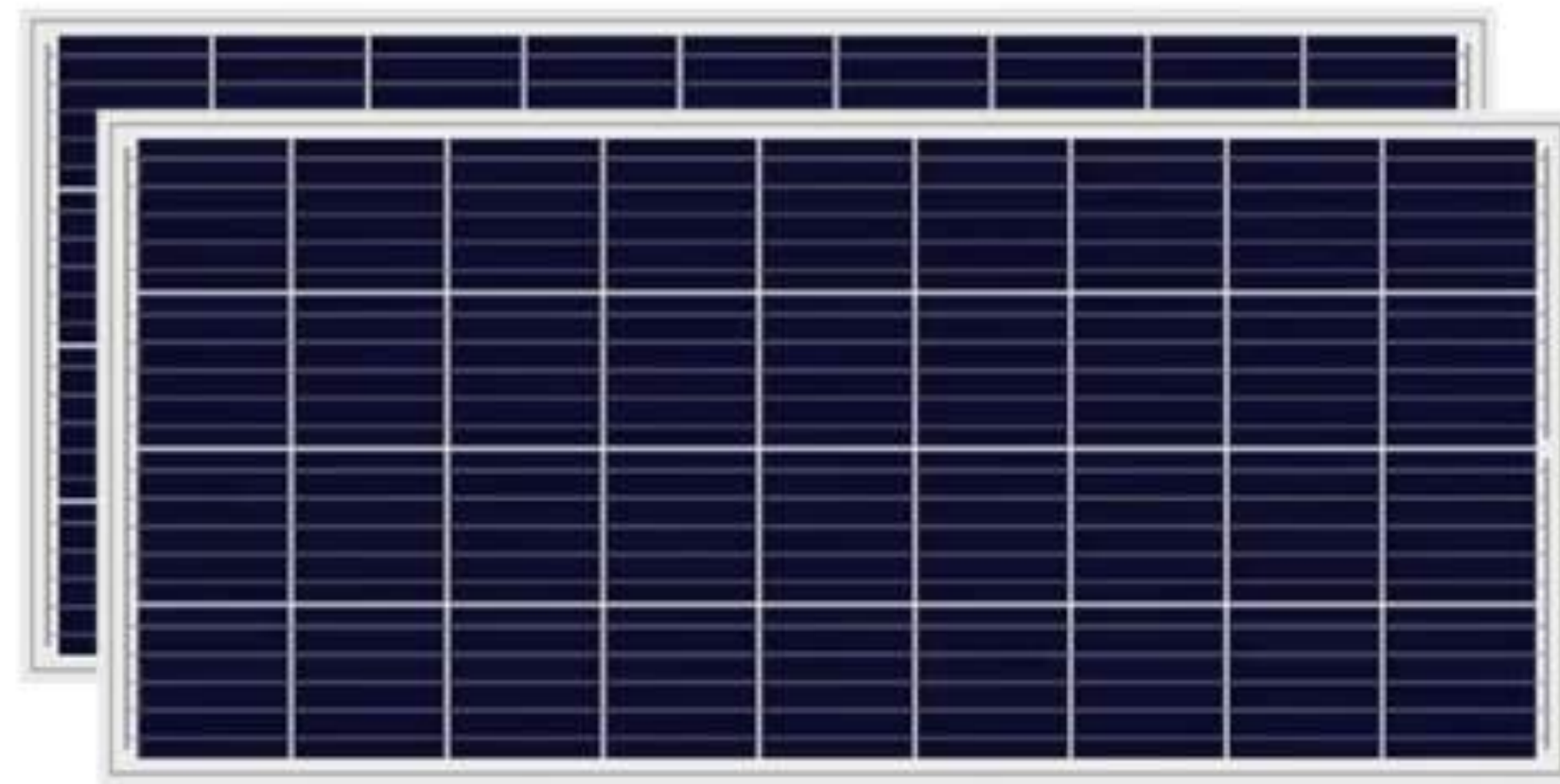


8 security protection & Smart control

| | | | |
|---|---|---|--|
|  Internal circuit |  Waterproof protection |  Scheduled shutdown |  Overheating protection |
|  Overcooling protection |  Short circuit protection |  Anti-boil-dry protection |  Waterpipe pressure protection |



Demo Carbcoin Platform



SOURCES LISTED ON THE PLATFORM,



100% True data from devices



2 layers lock the anti-theft structure



Green power standard currency trade

Proof of Concept (AEON Mall, Malaysia)



AEON MALL Nilai solar rooftop and DES POB , at Malaysia Negeri Sembilan.



Proof of Business (100 Factories Energy Saving, Taiwan)



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Carbcoin can benefit you with green energy and carbon credits.

A ton of carbon is between \$40~100 USD.
case of carbon credit = \$5,000 USD/Y

Taiwan 1 Watt is sold for \$0.2 USD.
case of green energy = \$5,856 USD/Y

To summarize, you can earn \$10,800 USD/Y

GREEN ENERGY WAY
TO VALUE CARBON CREDITS.

Won the Nanjing Tech Final Contest Silver

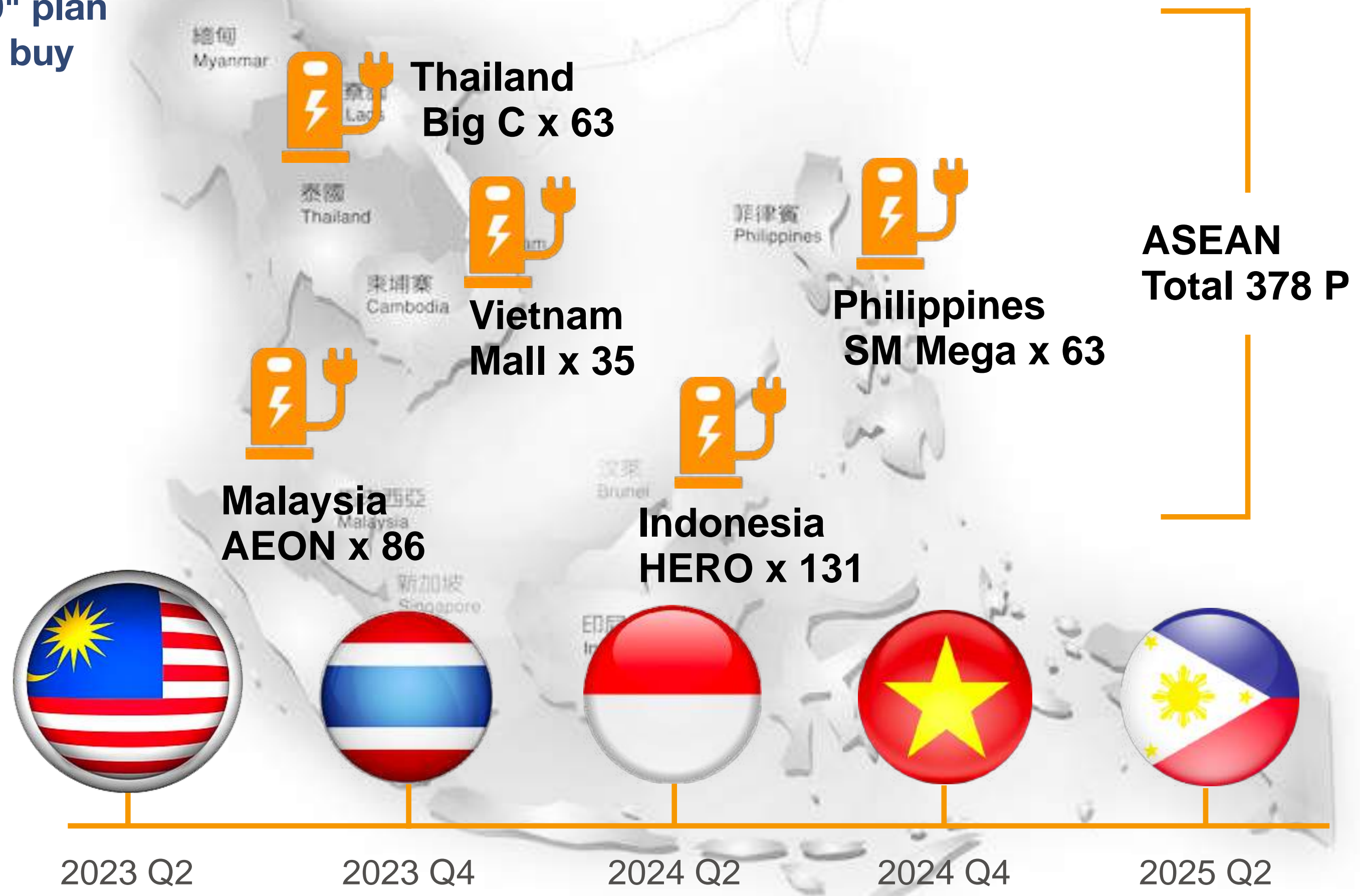


Based on COP27, Carbcoin plans to facilitate the coordination among ASEAN countries, **Malaysia is the 1st.**

Official: Malaysia Ministry of Finance TNB and DOA (Department of Agriculture)

Marketplace: The retail chain store "Net-Zero VISION 2050" plan

Policy: Malaysia launches a GET program, consumers can buy electricity from green electricity providers.

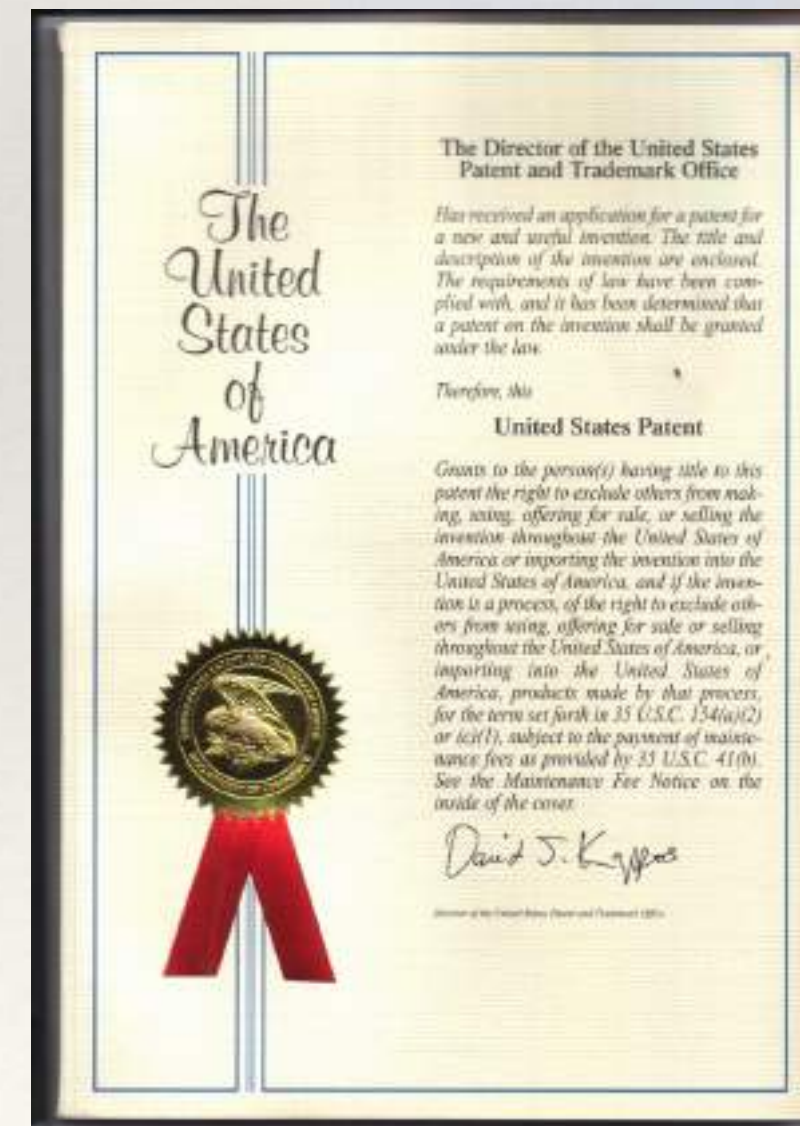


Authorized, Patents and MOUs



Carbcoin has applied US, China and Taiwan invention patent, to be the foundation of physical connected blockchain and distributed energy storage applications, ASAEN market is started from business partner AEON and signed MOU with Malaysia government related department.

Patent: Blockchain based carbon neutral transaction processing method and system for the same



Opportunity and Competition



More than **\$60 billion** booming carbon credit transactions, let alone the **\$160 billion** distributed energy storage marketplace which is **41%** at Asia-Pacific, meaning it's the best chance ever to develop green business along with ASEAN focus Carbcoin.

Market

How do we tackle the climate change challenge and COP26 net-zero by 2050 without a global carbon trading system to be carbon neutral. Carbcoin helps deliver carbon trading system to keep the Paris Agreement targets along with its DES, measuring carbon credit based on real market toward to the decentralized energy future.

Opponent

Before 2021, there are 64 carbon trading hub (ETS), no global ones. Main competitors are running it as ETF, the biggest one is KraneShares Global Carbon Strategy ETF (KRBN). As to DES market: Électricité de France (EDF) is the most aggressive one in the industry, focus on the business market.

Solution

Embracing energy generation and storage technologies in how consumers both produce and consume the electricity that powers new decentralized energy future. Carbcoin, its AIoT devices make it an expert-free platform, a secure, transparent and reliable trading hub for carbon credit.

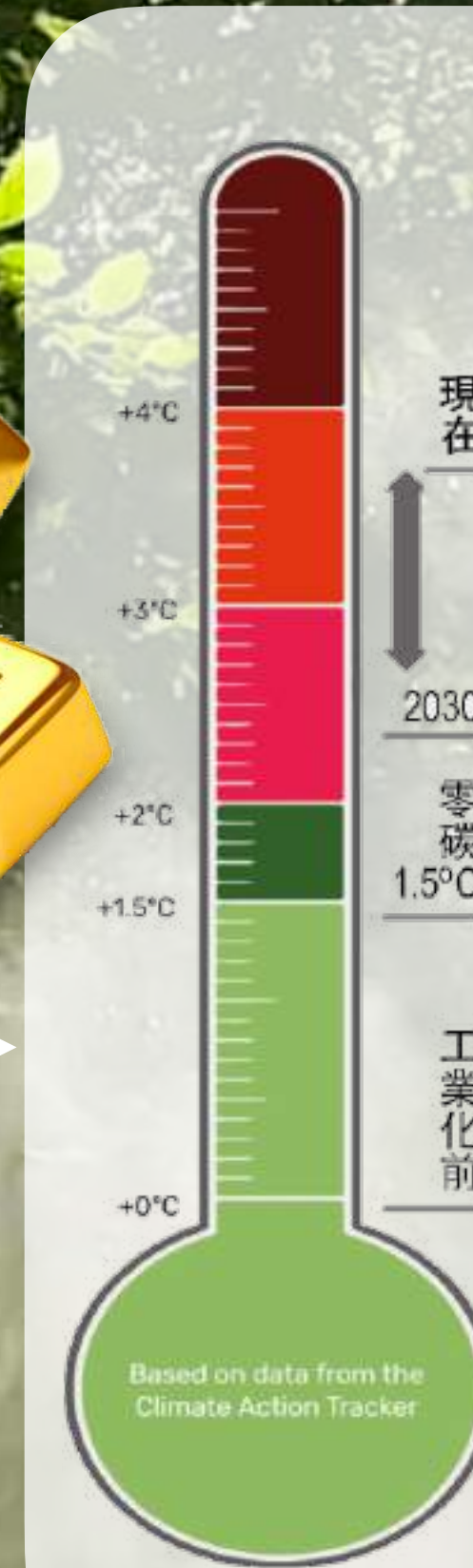
Future Prospect and Vision



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Turning Carbon into Gold



The vision of Carbcoin is to be a carbon neutral platform to either earn carbon credit or validate green energy, to leave the earth for our descendants in a better state than pre-industrial age. To have a life-changing impact on climate change by promoting green energy, a reliable way to measure and track companies' carbon footprint and then improve it by minimizing their CO2 emissions via using green energy or energy efficient products.



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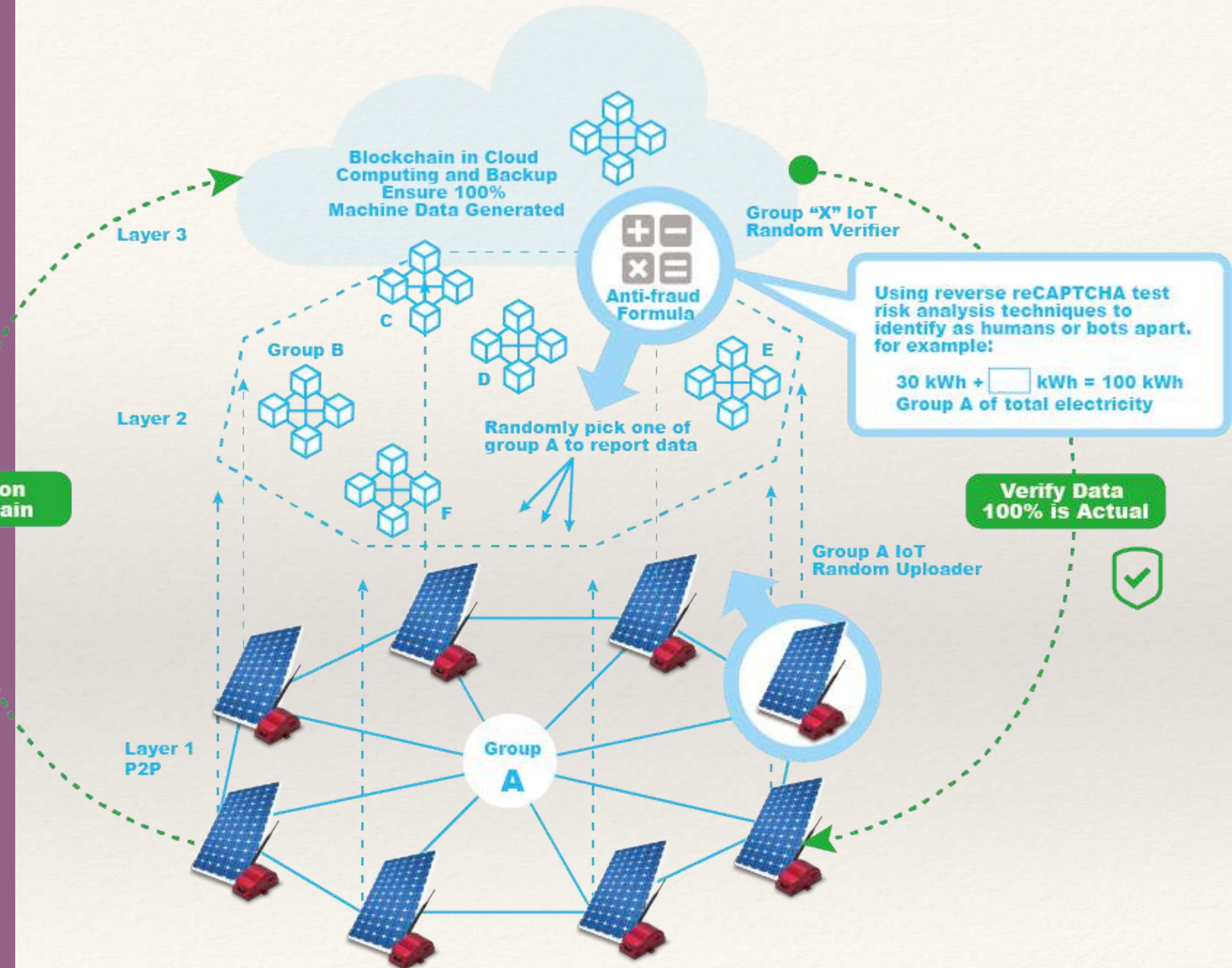


THANK YOU

CONTACT US : CARBCOINIO@GMAIL.COM

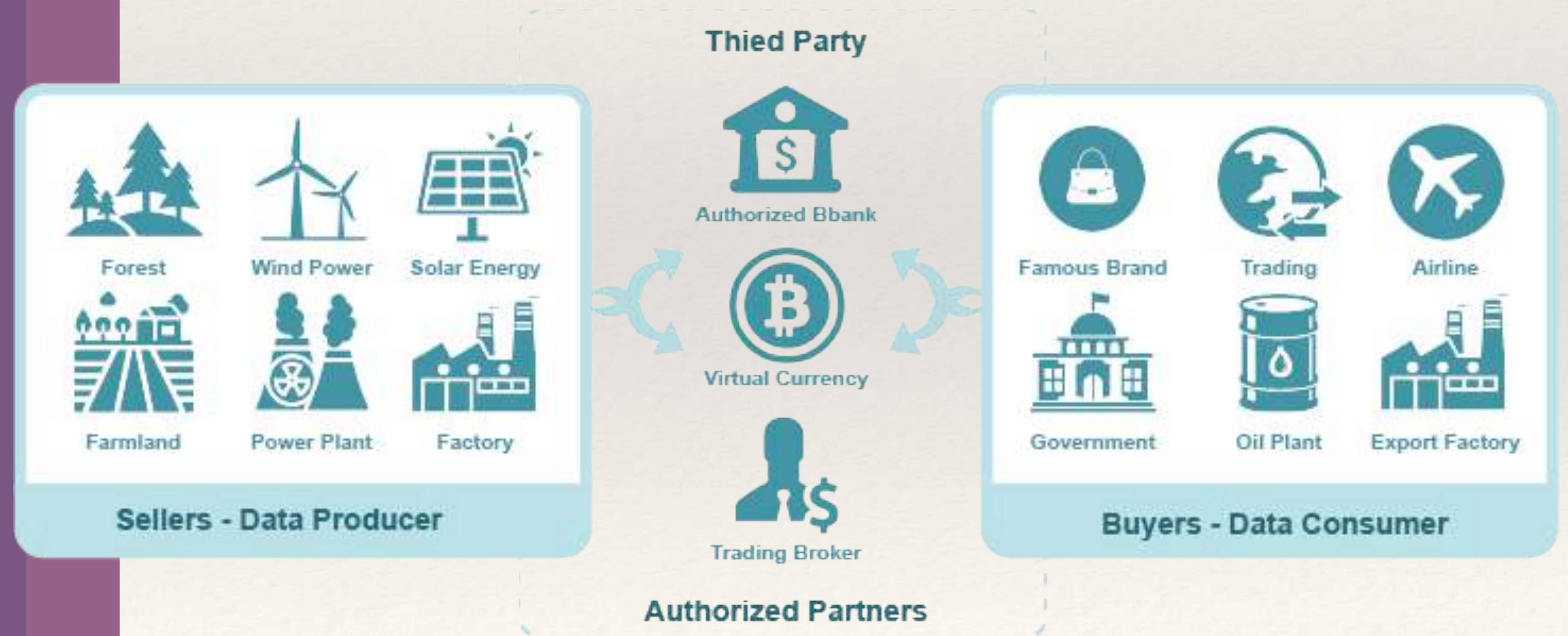
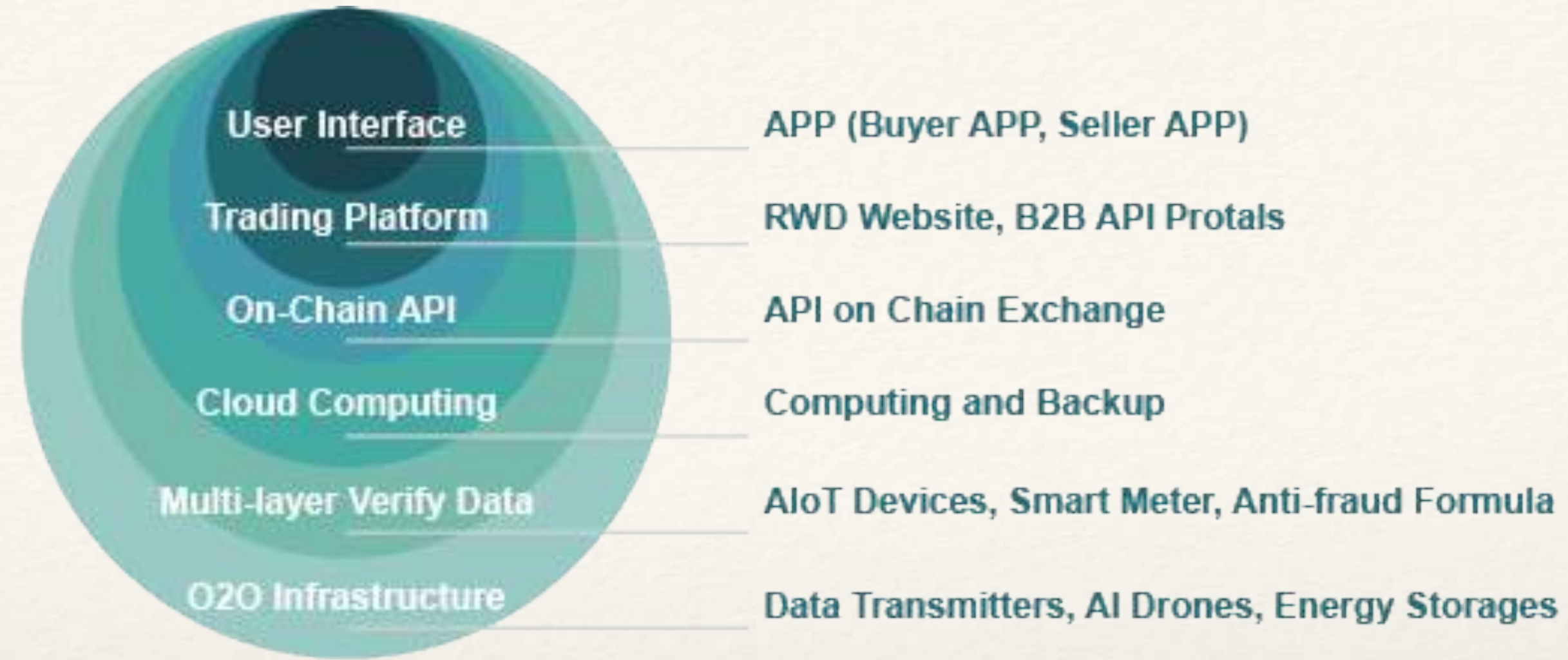
How Carbcoin verified by physical blockchain

Putting on Blockchain





The way Carbcoin works with industries





Opportunities and industries of Carbcoin

Carbcoin can generate many emerging industries, for example:

1. Factory energy-saving service and carbon inventory.
2. Farm carbon rights, carbon sinks, carbon sequestration, and smart agriculture.
3. Solar & Green Appliances: Air Conditioners, Water Generators, Solar Lighting.
4. A transmission relay station connected to Starlink or 5G signals.
5. Smart city or smart building.
6. Small green energy plants provide backup services for people's livelihood.
7. Green energy charging piles and vehicles (cars/boats/drones)

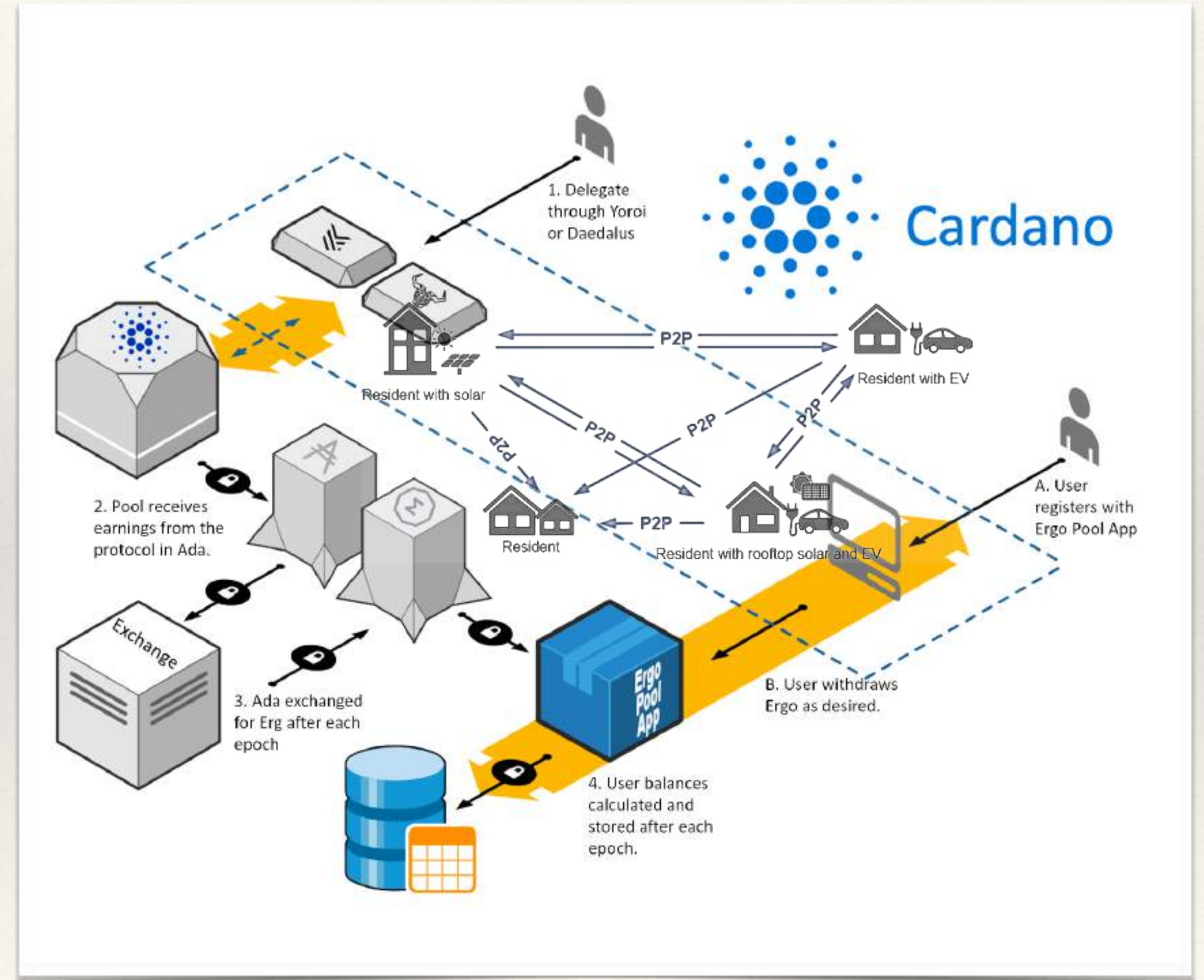




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Carbcoin blockchain technology

Carbcoin adopts Cardano, the third-generation public blockchain technology. Its native virtual currency is ADA. Cardano adopts the Ouroboros algorithm, which is characterized by being divided into two independent layers: the settlement layer (CSL) is used to verify and record the transfer of ADA, and The Compute Layer (CCL) supports smart contract functionality for developers to create and execute applications. The two-tiered design is designed to optimize application scalability and more efficient transactions.





A ton of carbon be cashed in?

The simple formula of Carbcoin is based on the law of immortality of matter and the electric standard system: Each kilowatt-hour of electricity will generate 0.56 kilograms of carbon dioxide. The basic starting price is the price of green electricity per kilowatt-hour in various places. The global carbon price will reach US\$50–100 per metric ton in 2030.

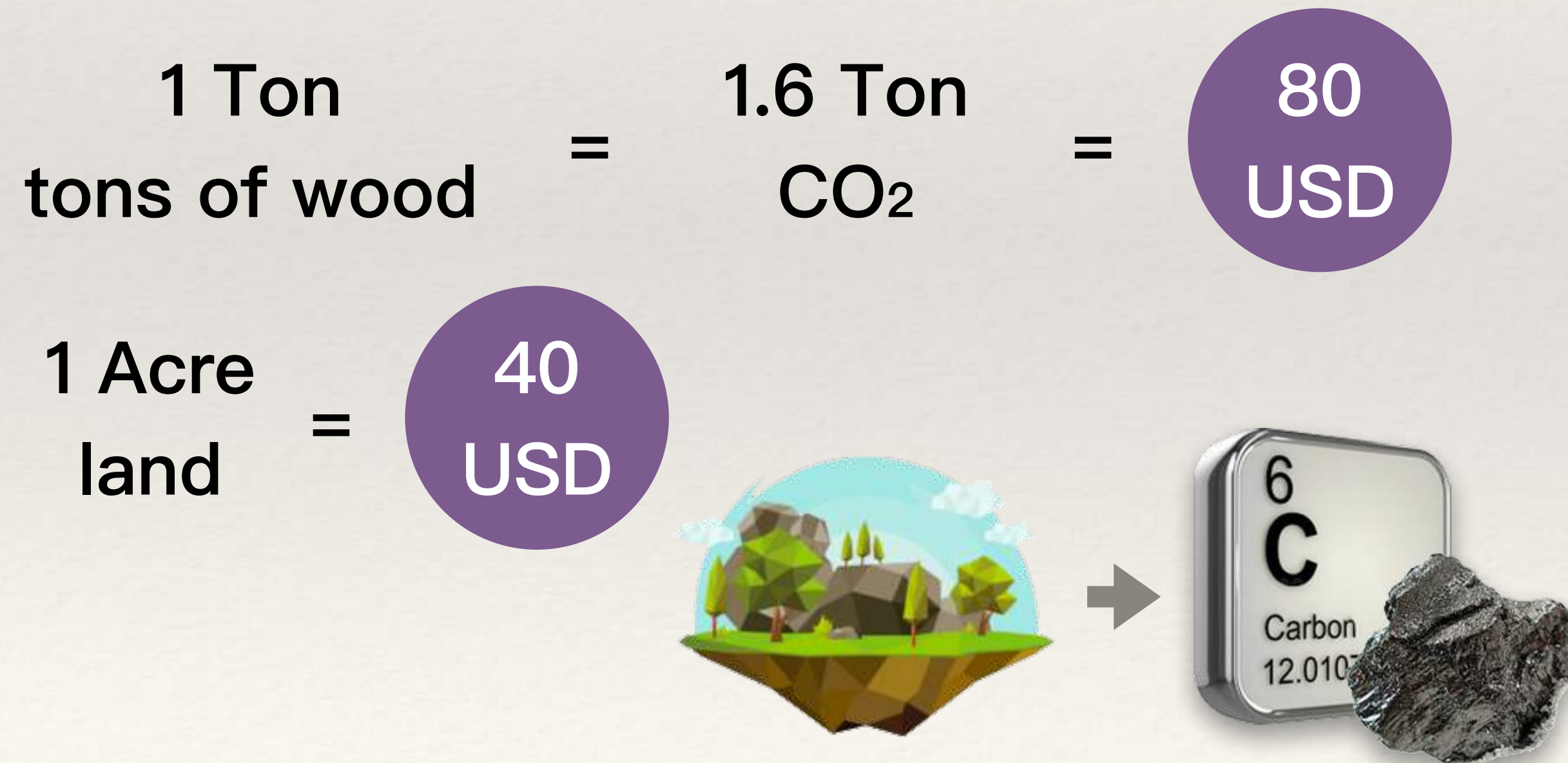
$$1 \text{ Ton carbon} = 1,000 \text{ kWh electricity} = 1,786 \text{ Kg CO}_2 = 50 \text{ USD}$$





Farms and forests worth how much Carbon credits?

According to the forest carbon storage formula, each metric ton increase in forest biomass requires 1.6 metric tons of carbon dioxide and releases 1.2 metric tons of oxygen. Carbon prices are US\$50~100 per metric ton, and another US\$7~40 per acre of land carbon sequestration can earn.





How much earn for installing solar roofs?

Calculated based on 10 solar panels on the roof, each can generate 4 kWh of sunshine for 200 days. There are two types of benefits throughout the year. One is the energy-saving electricity price or the sale of green energy to the central energy plant. The second is the sale of carbon credits, with carbon prices ranging from US\$50~100 per metric ton.

8,000 kWh
electricity

=

4,480Kg
CO₂

=

224
USD

8,000 kWh
electricity

=

1,600
USD





Factories energy-saving and earn carbon credits

"Carbon storage is the golden passbook of the future."

Elon Musk, the founder of Tesla, is the winner of making good use of carbon credits trading. Tesla only turned a profit in 2020. When the electric vehicle business was still losing money, one of the sources of income was that its founder Musk took the lead in laying out carbon credits:

Tesla's 2020 surplus is only more than US\$600 million, and the carbon credits trade profit is US\$1.5 billion, and the return rate is 2.5 times.

