The “EnergyDAO” project was created by solar energy specialists, blockchain developers, and web3 enthusiasts.

The characteristic features of a project are decentralization, self-deployment, and scalability.

The main mission of the project is to reduce the load on the existing energy system and stimulate the development of renewable energy sources

Objectives “EnergyDAO”

-To create a crowdfunding platform that will allow investing directly in renewable energy projects and support the development of new infrastructure.

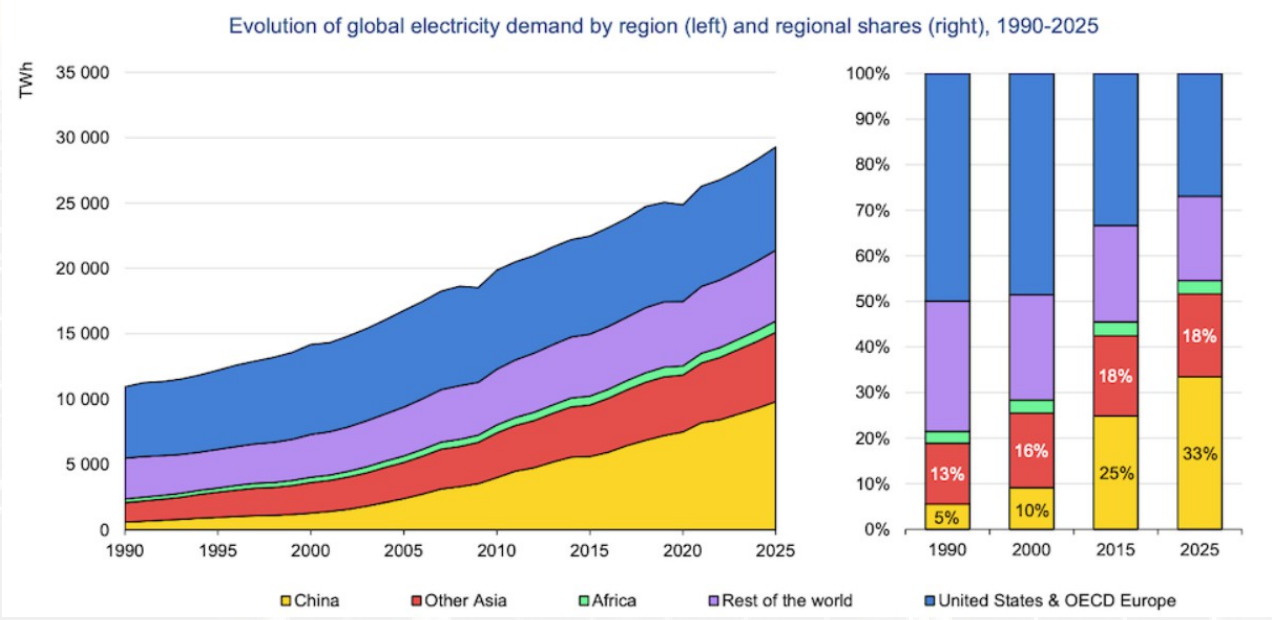
-Using blockchain technology to bring together electricity consumers, electricity producers, investors, distribution operators, and electricity regulators.

-Creating a decentralized, transparent, self-sufficient electricity market.

Existing problems of the industry

The world's energy consumption is increasing, and the amount of greenhouse gas emissions is growing

The growth trend of electricity consumption over the past twenty years, based on data from the International Energy Agency (IEA):



In 2000, global electricity consumption was 13,266 TeraWatt hours (TWh).

By 2010, global electricity consumption had increased to 19,364 TWh.

In 2020, global electricity consumption was 23,447 Twh.

Carbon Brief analysis of the IEA figures shows that it expects global electricity generation to rise by 2,493TWh between 2022 and 2025.

The IEA expects the growth in renewable generation to cover the vast majority of this total, growing by 2,450TWh.
This is equivalent to 98% of the overall increase in global demand.

Proof-of-Works Electricity Consumption.

One of the major pushbacks to the adoption of Proof-of-Works is its impact on the environment.

According to the Cambridge Bitcoin Electricity Consumption Index, the annualized energy consumption of the Bitcoin network is close to 200 terawatt-hours (TWh). This is almost equal to the amount a sizable country like Ukraine consumes.

The energy consumption of Bitcoin mining also leads to the release of carbon emissions into the atmosphere, contributing to global warming and climate change. Estimates suggest that Bitcoin mining generates between 22 and 22.9 million metric tons of carbon dioxide emissions annually.

Low rates of renewable energy development (RE)

One of the main barriers to the development of renewable energy is the high initial cost of installation and construction.

Although the cost of renewable energy technologies has been decreasing in recent years, they can still be too expensive for many individuals and organizations, especially in developing countries.

Creating and maintaining the infrastructure needed for renewable energy, such as solar panels, wind turbines, and energy storage systems, can be challenging and expensive.

How does “EnergyDAO” solve these issues?

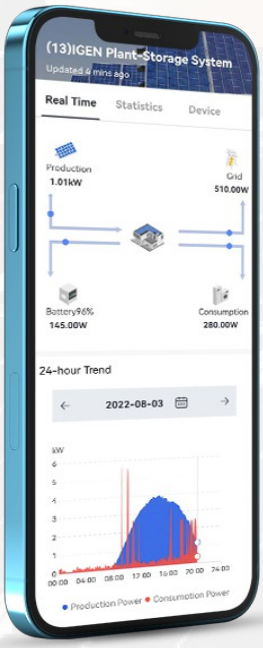
Our team has developed "EnergyDAO" a blockchain-based project that unites renewable energy producers, traditional energy providers, consumers, and distribution operators on a single platform.

The main elements of the platform include:

Peer-to-peer (P2P) energy trading

Blockchain is used to enable P2P energy trading, allowing individual consumers to buy and sell excess renewable energy from their solar panels or wind turbines directly with other consumers in their neighborhood.

This is achieved through smart contracts based on blockchain, which automatically manage the distribution and storage of energy in the network.



Energy tracking and certification

Blockchain is used to track the production, distribution, and consumption of renewable energy, which helps ensure that the energy is produced from renewable sources and reduces the risk of fraud.
This is achieved through bidirectional “Smart Meter” nodes that are connected to the blockchain through “EnergyDAO”, providing an immutable and transparent record of each step in the energy supply and consumption chain.

Crowdfunding in renewable energy

The platform is also used for crowdfunding in the renewable energy sector, allowing individuals to invest in renewable energy projects and receive a share of the profits. This is achieved through a smart contract that securely records investments and payments, providing transparency and accountability for investors.

"EnergyDAO" for enterprises.

The use of renewable energy sources can help reduce the cost of energy supply for a company.
In the long run, renewables can be a more profitable and predictable source of energy, as they do not require fuel costs and are therefore independent of oil and gas prices.
The use of renewable energy sources can reduce the negative impact on the environment, as these energy sources do not emit harmful emissions into the air and water.

The “EnergyDAO” project can significantly reduce or completely eliminate the negative image of Proof of Work

The project allows for large industrial facilities and businesses to be powered by "Green" electricity, but to understand the concept, let's calculate the economic effect of joining "EnergyDAO" using bitcoin mining as an example.
We will take the necessary data from open sources, such as the Cambridge Bitcoin Electricity Consumption Index.

For mining one bitcoin, 150 MWh is required.
This amount of energy can be generated by a power station with a capacity of 150 kW, which will produce approximately 160 MWh per year.
(Of course, the time for bitcoin mining can be reduced by simply increasing the power of the generating unit.)

"EnergyDAO" can offer two financing options for industrial mining:

Unlimited "EnergyDAO":
An industrial facility interested in "green" energy submits an application through the "EnergyDAO" portal.
The system finds available capacity in renewable energy sources and opens a crowdfunding campaign.
After raising the necessary funds and installing a smart meter, the facility is connected to the project.
With zero initial investment, the industrial facility receives electricity generated from renewable energy sources.
The origin of the energy can be tracked in real-time, and all information is recorded on the blockchain.
The consensus element ensures that the cost of electricity for such a consumer is always lower than the market price.

Limited "EnergyDAO":
An industrial facility interested in "green" energy submits an application through the "EnergyDAO" portal, and the system opens a crowdfunding campaign.
After raising the necessary funds, a solar power plant with the required capacity is installed directly on the industrial facility's premises.
To participate in this type of financing, the consumer must make an initial down payment, which does not exceed 30% of the project's cost, and the rest of the funds are paid gradually as payment for the actual use of electricity.
A smart contract controls the circulation of funds.
The advantage for the consumer is that the solar power plant becomes their property, approximately after 6 years.
This type of financing from "EnergyDAO" can be called installment payments.

Who is funding all this?

"EnergyDAO" is a crowdfunding platform where people pool their money to finance renewable energy projects.

"EnergyDAO" crowdfunding allows partial ownership of assets, which lowers the entry barrier for small investors

Everyone can become an investor!

The smart contract allows investors to track their investments in real time and receive payments automatically

Blockchain provide a transparent and auditable record of investments and returns, which increase investor confidence and reduce the risk of fraud.

Investors can track their investments in real-time and verify that they are receiving the returns they are entitled to.

“EnergyDAO” offers two investment options

Unlimited "EnergyDAO"

Power: 10 Watt	**Power: 100 Watt**	**Power: 1000 Watt**
Price: 10 USDT	**Price: 100 USDT**	**Price: 1000 USDT**
Annual income: 8%	**Annual income: 9%**	**Annual income: 10%**
Validity period : 20 years	**Validity period : 20 years**	**Validity period : 20 years**
receipts every month	**receipts every month**	**receipts every month**

Invest and get 10% annually for 20 years!

Get income every month!

The ability to sell NFTs on the marketplace and return the invested funds

“Energy DAO” guarantees the redemption of oil and a return on investment
(after a year of ownership, redemption is unlocked)

In a year, all NFT holders will start receiving "EnDa Coin"
(the coins will be used on the “EnergyDAO” platform for management and voting).

Limited "EnergyDAO":

Power: 10 Watt	**Power: 100 Watt**	**Power: 1000 Watt**
Price: 10 USDT	**Price: 100 USDT**	**Price: 1000 USDT**
Income for 1 year: 26%	**Income for 1 year: 28%**	**Income for 1 year: 30%**
Income for 2 year: 21%	**Income for 2 year: 22%**	**Income for 2 year: 23%**
Income for 3 year: 18%	**Income for 3 year: 19%**	**Income for 3 year: 20%**
Income for 4 year: 17%	**Income for 4 year: 18%**	**Income for 4 year: 18%**
Income for 5 year: 16%	**Income for 5 year: 16%**	**Income for 5 year: 17%**
Income for 1 year: 15%	**Income for 6 year: 15%**	**Income for 6 year: 15%**
Validity period : 6 years	**Validity period : 6 years**	**Validity period : 6 years**
receipts every month	**receipts every month**	**receipts every month**

Invest and receive 30% annual return! (see financial plan)

Earn monthly income!

Ability to sell NFT on the marketplace and return the invested funds

In a year, all NFT holders will start receiving "EnDa Coin"
(coins will be used on the “EnergyDAO” platform for management and voting)

Prospects for project development

The solar energy industry is a growing market with significant growth potential. According to the International Energy Agency (IEA), solar energy is the fastest-growing source of electricity globally, with the potential to become the largest source of electricity by 2035.

"EnergyDAO" can democratize access to funding for renewable energy projects and increase the amount of capital available for investment.

Renewable energy crowdfunding can be a powerful tool for accelerating the transition to a clean energy future by enabling individuals to invest directly in renewable energy projects and support the development of new infrastructure.

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Roadmap for "EnergyDAO" project:

Launch of the “EnergyDAO” platform and smart contract - Q2 2023

Carving of “EnergyDAO” NFT - Q2 2023

Launch of Limited “EnergyDAO” crowdfunding - Q2 2023

Integration of blockchain-based monitoring network - Q3 2023

Development of “EnergyDAO” app - Q3 2023

Deployment of decentralized energy network based on blockchain - Q4 2023

Launch of Unlimited “EnergyDAO” crowdfunding - Q1 2024

Carving of “EnDA Coin” (tied to the value of kWh and equipment) - Q2 2024

Incentive program for electricity producers - Q2 2024

Distribution of tokens to NFT holders - Q2 2024

Token sale launch - Q3 2024