



OPTONIUM COIN

WHITEPAPER

1. CONTENTS

S.No.	Description	Page
1	Contents	2
2	Summary	3
3	The Benefit of Using Optonium Coin	4
4	Who We Are?	5
5	Vision & Mission A. Solar Energy B. Wind Energy	5-6
6	Our Project	6
7	Blockchain	7
8	Key Milestones Accomplished	8
9	Market Strategy	8
10	Technical Analysis	9
11	Optonium Coin Distributions	10
12	System Architecture Overview	10
13	Coin Sale Details	11
14	Your Contribution	11
15	Disclaimer	11

2. *Summary*

Ecosystem sustainable solutions for enterprise-wide energy operations and efficiency management.

The world is lagging behind the renewable energy adoption. Current renewable energy share is 24%, however, due to a drop in investment level this year, it became complicated to reach 100% renewable target. Due to drop in subsidies and more and more renewable energy being developed to compete at a market price banks started increasing demand on a higher level of own capital and debt ratio. It moved from 20:80 to close to 50:50 ratios for newly developing renewable energy projects. Equity capital became a limited source of financing contributing to a plunge in investment due to smaller leverages.

2017 level of investment into renewable energy has reached a level of 242 Billion USD representing a 23% decrease over the previous year. Despite the lack of capital, renewable energy financing market is still closed. Only big institutional players have access to energy investments.

OPTONIUM COIN solves the current problems of access to capital for the renewable energy developers and provides access to investments in profitable projects directly for the final consumers, any type of investors and energy market makers. This is done using the fast and transparent way through smart contracts on the Blockchain. By employing technology OPTONIUM COIN solves the following energy market insufficiency: global access to capital for green energy projects and green energy investments and trading as well as speed and transparency.

Renewable energy developers can sell upfront part of the energy to be produced in the future. To make it fast, global and transparent, this energy is tokenized and each power purchase agreement becomes a smart contract. This ensures liquidity. On the other side, final consumers, investors, and energy market makers can buy energy with a discount and reduce the cost of the consumed energy or make a profit from price differences between the price paid and the market price at a certain point in time when the energy is produced. OPTONIUM COIN is connected to the energy infrastructure and energy exchange markets in order to record data on the Blockchain, enable energy trading and selling energy directly to the market, if there is not enough demand on the platform.

Once the volumes of renewable energy with the help of OPTONIUM COIN increases, the platform will become the next generation utility, using Blockchain, smart contract solutions and bringing full transparency to the energy market. It will be based on the core principles of decarbonization, democratization, and decentralization.

3. *The Benefit of Optonium coin*

- (1) The increase of the produced renewable energy volumes and bigger return on equity ratio
People can reinvest more funds in the renewable energy production.
- (2) Based on Optonium Coin business model, we will decrease the pollution by CO2 emitted to the atmosphere that has a negative impact.
- (3) Optonium Coin solution allows to record exactly how much and what type of energy was produced and what amount of CO2 emission cut. It guarantees that you buy exactly green energy and brings transparency in the market, which is currently missing.

Today	Tomorrow with OPTONIUM COIN
Closed energy market	Open market for energy trading
Local investments	Global investments in renewable energy
Intermediary fees	No middle men and thus higher ROE
Top-down investment distribution	P2P energy trading
No transparency	Fully transparent green energy production and accounting

4. *Who We Are?*

The United States currently relies heavily on coal, oil, and natural gas for its **energy**. Fossil fuels are non-**renewable**, that is, they draw on finite resources that will eventually dwindle, becoming too expensive or too environmentally damaging to retrieve & this the Problem world wide

The **Renewable** Electricity Futures Study found that an 80 percent renewable **future** is feasible with currently available technologies, including wind turbines, solar photovoltaic's, concentrating solar power, bio power, geothermal, and hydropower & such things are enough to push us into Renewable Energy.

5. *Vision & Mission*

The human race, in its never ending struggle to improve its standard of living, has invariably depended on colossal amounts of electric power to fuel our evolution. A present day estimate by National Geographic determined that we use 320 billion kilowatt-hours of energy every day. Today, most of this enormous requirement is addressed by burning fossil fuels. So far, fossil fuels have catered to our energy needs very efficiently, but they are also non-renewable and rapidly depleting. These fuel sources have also contributed greatly to greenhouse gas emissions and pollution. The time has come to find suitable and better replacements for fossil fuels. Scientists are constantly researching newer and greener sources of energy that have limited impact on the environment and reduce their contribution to global warming, which is believed to be caused by the release of carbon dioxide while burning fossil fuels.

Solar energy and energy from wind are just a few of the promising alternatives for a cleaner and greener future.

(a) **Solar Energy:**

Almost everything in this world ultimately derives its energy from the sun. Instead of obtaining the sun's energy from indirect sources like fossil fuels, researchers and organizations worldwide are looking to directly tap this unlimited source of energy.

The earth receives about 174 billion megawatts of power at the upper atmosphere as a result of solar radiation. About 30% of the incident solar radiation is reflected back,

while the remaining, which amounts to 3.85×10^{24} Joules every year, is absorbed by the atmosphere, oceans and landmasses. The amount of solar energy that is available to us during an hour is more than the total amount of energy consumed worldwide in an entire year. But this is a diffused, rather than concentrated, form of energy and the greatest challenge lies in harnessing it.

Heat and light radiation from the sun can be harnessed through the use of semiconductor solar panels. The energy solar radiation excites electrons on these panels and leads to the production of electrical energy.

(b) Wind Energy:

Wind farms are constructed to harness mechanical energy from the wind and convert it into electrical energy. These wind farms are then connected to electrical power transmission networks for the distribution of power. On average, only 20 to 40 percent of the total energy capacity of a wind farm can be utilized.

The limiting factor in harnessing energy from wind is that wind speed is variable and in most cases the energy from wind can only be effectively harnessed with very high wind speed and consistent heavy winds. These generally occur at higher altitudes.

In 2016, the worldwide wind power generation capacity stood at 121.2 GW. On an average, wind power currently accounts for only 1.5% of the global power generation capacity. However, this sector has grown two-fold within the three-year period of 2016–2017. & this sector has growing day by day with lots of opportunity

6. *Our Project*

It has been documented that popular crypto currencies such as Bitcoin and Ethereum combined use more energy than Iceland, Syria and Jordan. The good news though, is that this is driving crypto-miners to use clean energy, lowering costs, helping the planet and even generating profit.

Mining is the process by which new crypto coins are created. Unlike traditional money that is printed and distributed by the government, crypto currency doesn't have a 'central government' per se.

Instead, 'miners' use software to solve mathematical equations (known as hashes) which verify transactions. As an incentive, each miner receives a small amount of crypto currency in exchange; a service that could be described as competitive bookkeeping.

The mining process itself is both computationally and energy intensive, especially as the millions of processors worldwide need to be cooled, using even more power. Sebastiaan Deetman, an environmental researcher from Leiden University calculated that if the Bitcoin network continues expanding at this rate, it could draw over 14 Giga-watts of electricity by 2020. This is the same total power generation capacity as Denmark.

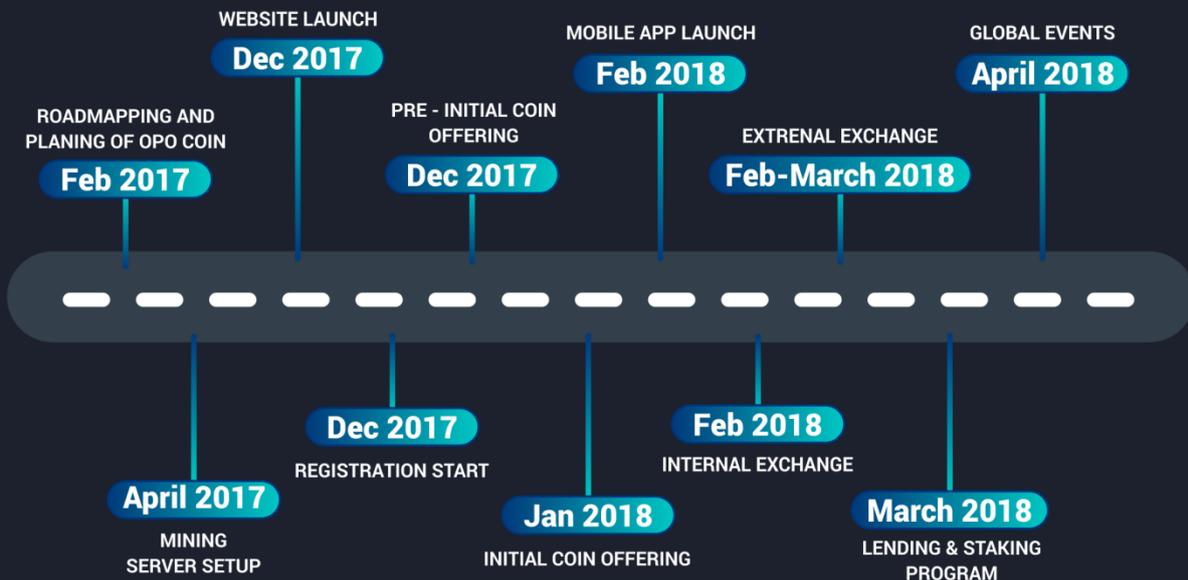
Whilst it's much harder to profit from mining on your home computer than it used to be, clean energy might just bring some of the smaller players back in the game. Below are some innovative examples of crypto-mining, harnessing the power of Mother Nature.

So we decided to make our own mining farms which will 100% depend on renewable energy so we will generate more profit & more energy if we farm more renewable energy than we need we will sell it to govt. Or private institution on commercial rate, as we all know today energy is most demandable in world.

7. Blockchain

The **OPTONIUM COIN** is electronic cash which is bit unmistakable money sort from the one that we use. You can pay or send money to anyone, wherever on the planet as this modernized cash and that too in appropriate around zero cost. It's the possible destiny of all the monetary trade which happens in the present time. Additionally, the most basic part is that the trade occurs in grinding of a minute & **DECENTRALISED** over Blockchain. Mathematically proven cryptography secures the network and empowers individuals to control their own finances with uncompromised security.

8. Key Milestones Accomplished



9. Market Strategy

Strategic Partnerships is a fast and strategic approach to reach the remote parts of USA, Asia, Africa, Middle East and Europe. Partnerships are the key elements for the same. Several such partnerships are already under development and include the following segments, namely

- Partnerships with different agencies in USA on first phase than we will expand to rest of the world by phase level
- Partnerships with lot of merchant from Crypto to trade & Mine to make it sustainable our OPTONIUM COIN in Crypto world
- Partnership with private & govt. Institution to consume our energy on commercial prices which we *produce*.

10. Technical Analysis

Science Applied

Coin Contract as a reason for OPTONIUM COIN

There will be 2000,000,000 COINs made altogether. (SHA 256)

Mifiable	1,600,000,000
No of Year in Mining	100 Annual
Per Year Mining Ratio	16,000,000
Per Month Mining	1333333.333
Per Day Mining	44444.44444
Per Hour Mining	1851.851852
Per Block Mining	154.3209877
Block Size	2 MB
POS Reward	1% Annual

11. *Optoniumcoin Distribution*



12. *System Architecture Overview*

Concerns Breakdown OPTONIUMCOIN Project consists of 3 layers of software responsible for different concerns, as shown below: The Bitcoin organize gives a medium to collaboration amongst organizations and clients Gatherings cooperate by sending exchanges to the OPTONIUMCOIN contract. All exchanges are approved by contract.

13. Coin Sale Details

OPTONIUMCOIN Association is issuing through the savvy contract framework .The OPTONIUMCOIN Establishment is an openly enlisted body in USA with legitimate duties and is liable to reviews. This will guarantee the straightforwardness of operations and the protected guardianship of the assets. The Establishment will procure a very respectable review organization keeping in mind the end goal to deal with all review issues. We are corporate individuals from the Crypto Relationship in USA, much like a large number of the other awesome Blockchain organizations and effective cryptographic forms of money.

14. Your Contribution

Go to: [https:// optonium.io](https://optonium.io)

Tap the catch that says "PARTICIPATE NOW."

TERMS AND CONDITION

The applicable terms & conditions will be the established in the

Website: <https://optonium.io>

15. Disclaimer

This offer of coin occasion is administered by federal law. By acquiring coins,

For More details please login to <https://optonium.io>