RED Energy

Accelerating alternative energy generation by the consumer and Funding Research into Energy Devices

The RED Project

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Introduction

An increasing population and the industrialisation of emerging economies continues to have a huge impact on global energy demands and the environment. Over the next few decades the population will rise, technology will evolve and energy consumption will increase massively due to the growing amount of devices we use and all of this will have a great effect on our planet and society.

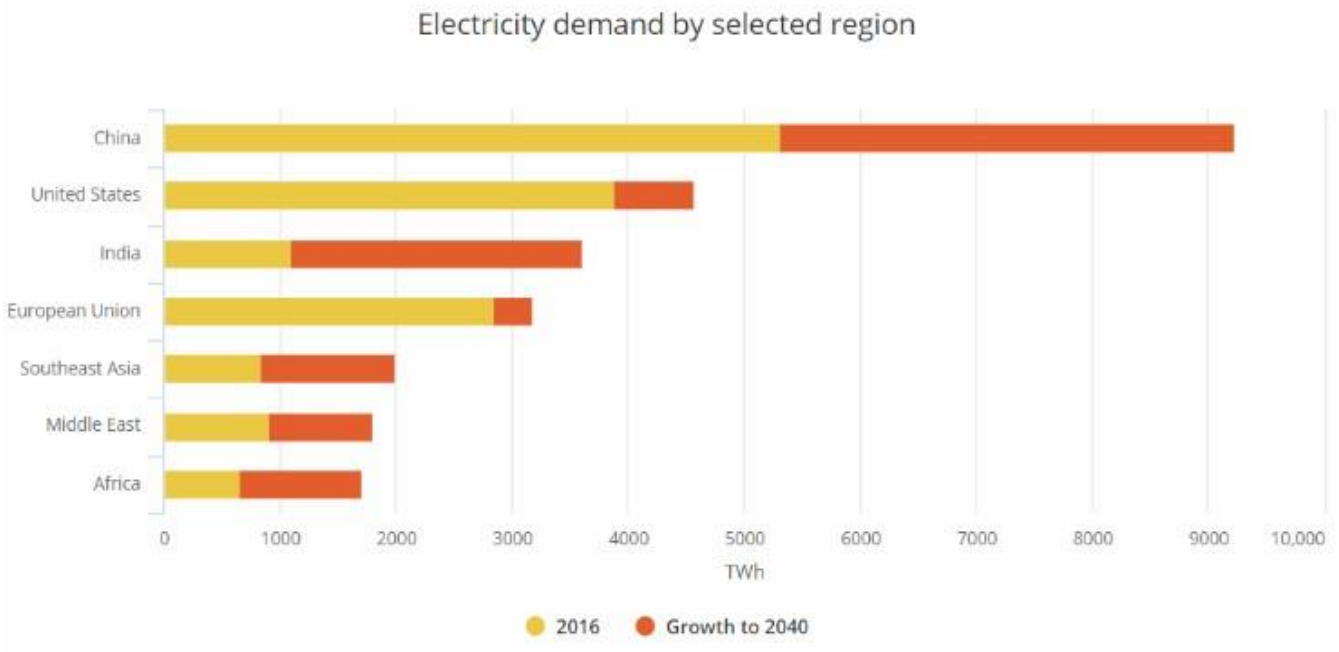
Energy suppliers are forecast to move towards greener alternative energy sources (China being the forerunner) and this is great news for the environment, but it will have little effect on the consumer at cost level.

We believe that this cycle can be disrupted by reducing energy demand at the consumer level by consumers generating their own energy/electricity using current and proposed alternative energy devices.

The FRED project (Funding Research into Energy Devices) is aimed at bringing the possibilities and greater use of alternative and new energy saving and generation devices to the mainstream.

The energy problem

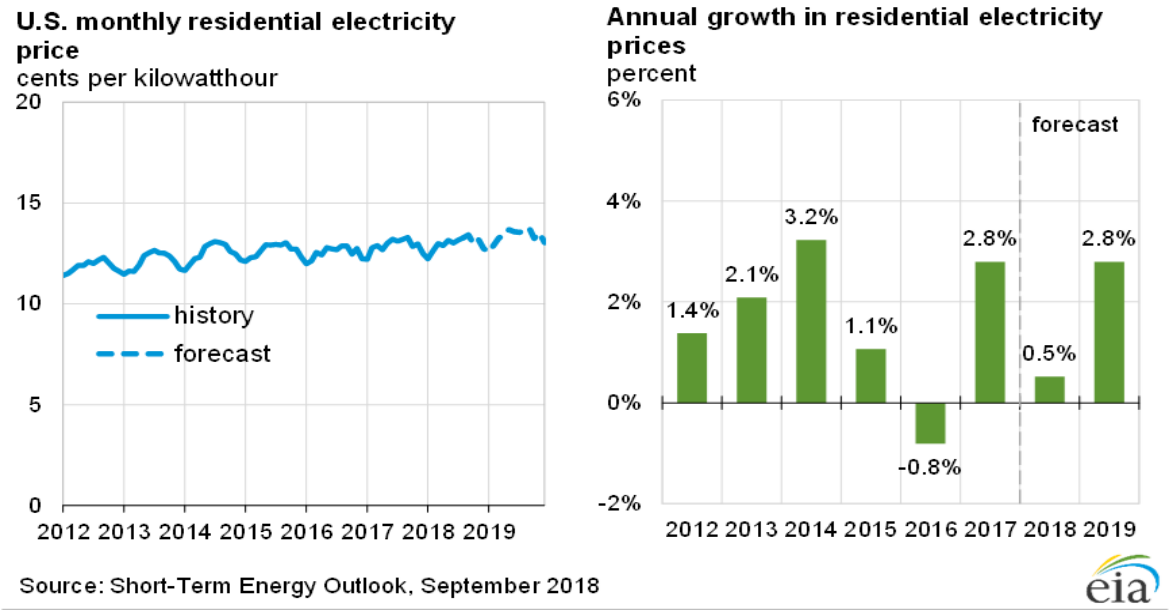
Energy usage is expected to grow by 30% by 2040 mainly due to industrial and population growth in emerging economies (iea.org, 2017) with electricity being the largest consumer growth area. This will contribute trillions of dollars to the energy corporates but will increase prices for consumers due to supply and demand. The effects will be felt by all of us but those most vulnerable such as low-income earners and the elderly will be unable to meet the growing energy costs causing them to fall into what is termed “fuel poverty”.



The FRED Project

The rising cost of energy problem

In the U.S. electricity price increases have averaged 1.65% over the last 6 years, this is the equivalent of a worker earning $30,000 per year in 2012 getting an average annual pay rise of $550 over the same period.

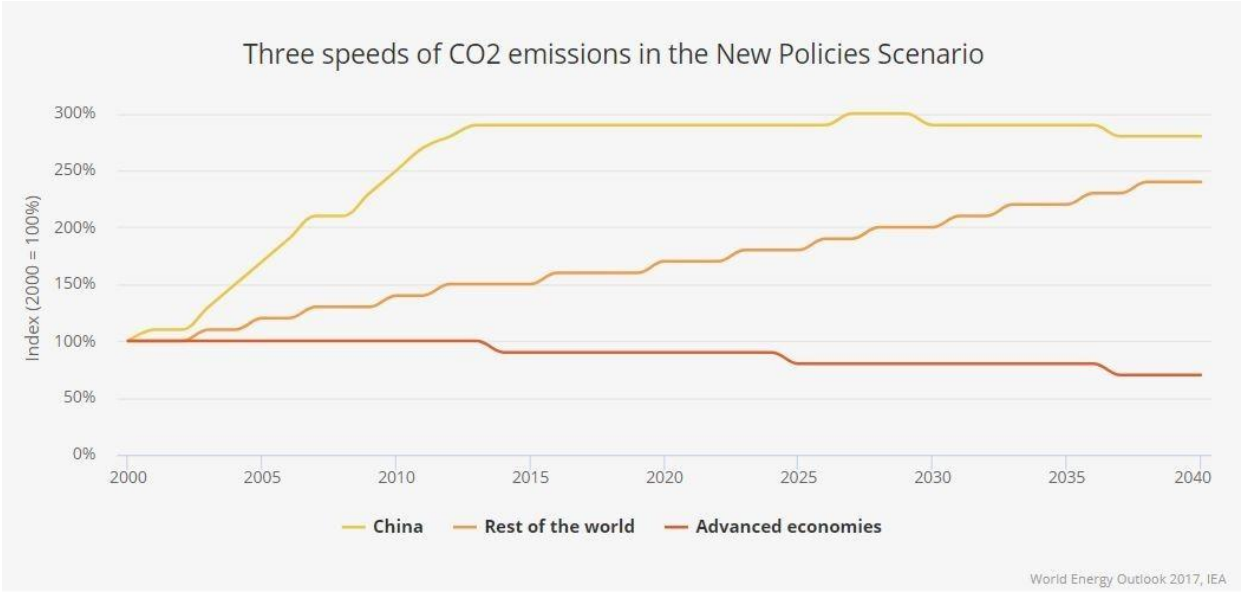


We are moving into a new era of energy usage where electricity will become the main energy source for consumers. In many developed nations, government policies and initiatives are pushing for cleaner transportation in electric vehicles and it is estimated that the global electric car fleet will rise from 2 million today to 280 million by 2040 (iea.org, 2017).

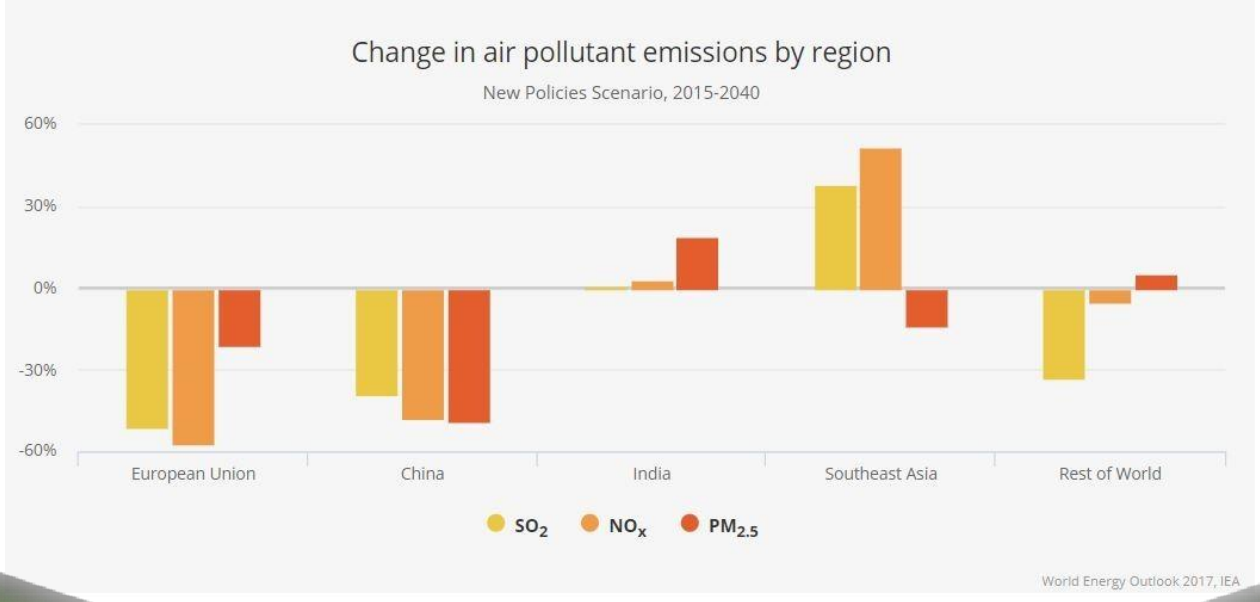
The steady growth in adoption of electric vehicles alone will create a huge demand for electricity and we fully expect electricity costs to rise more significantly due to the increasing demand. Another aspect to consider is the loss of government revenues on petrol and diesel (ier.org, 2017) which will likely be replaced with road tolls and a new electricity tax (Government study, 2013).

The environmental problem

Further cause for concern is the environmental impact this increased demand will have, and although the future forecast is for greener and cleaner electricity generation at supplier level, the industrialisation of developing nations will negate much of the effort by advanced economies to reduce global CO2 emission levels.

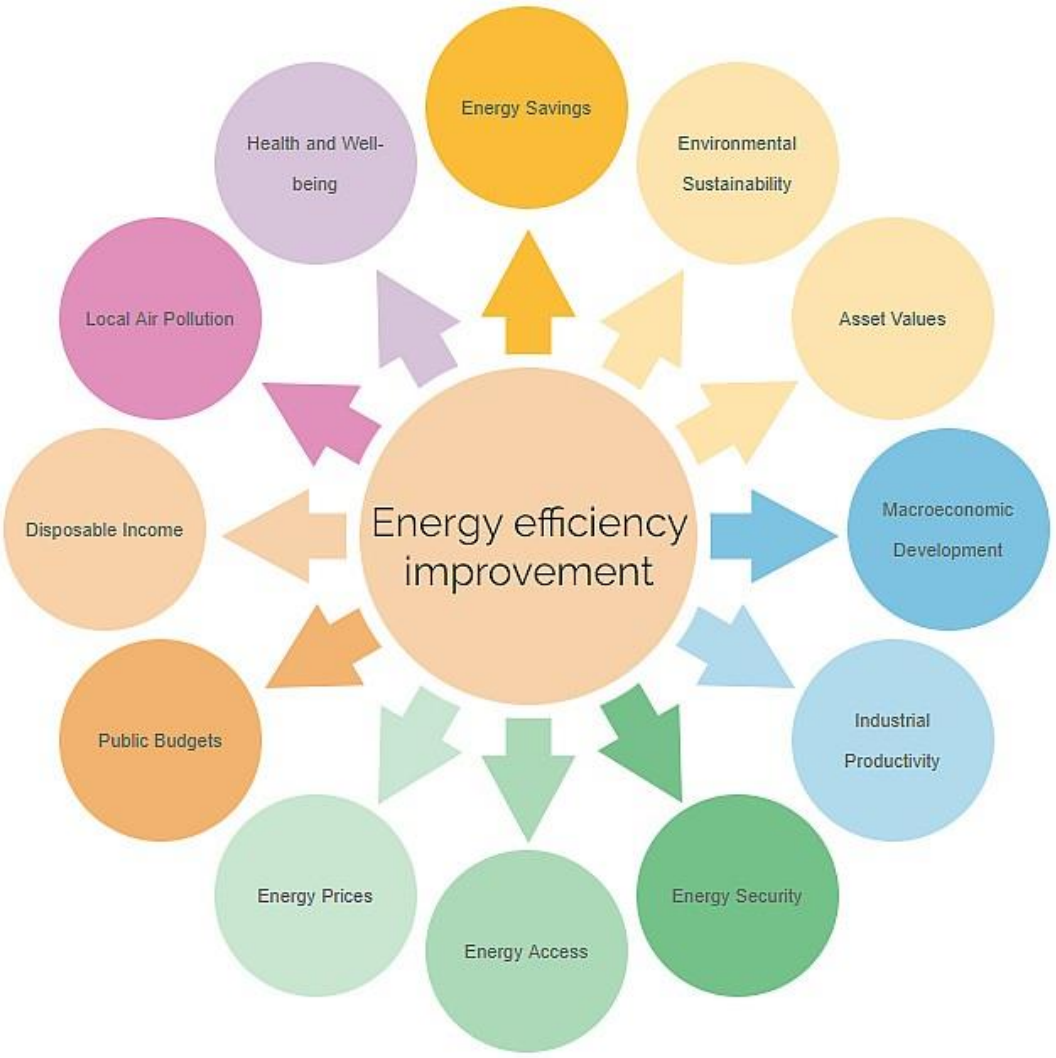


Consumers having access to affordable alternative energy generation devices would massively reduce global CO2 emission levels and the associated climate risks. Additionally, the consumer generating their own electricity will be at an advantage when prices begin to rise due to demand and would lessen the risks of falling into fuel poverty.



Reducing energy consumption problem

According to research by the International Energy Agency (IEA) there is a wider perspective of energy efficiency which goes “beyond the traditional measures of reduced energy demand and lower greenhouse gas (GHG) emissions”. This wider perspective reveals the potential of energy efficiency “to support economic growth, enhance social development, advance environmental sustainability, ensure energy-system security and help build prosperity” (iea.org, 2018).



In essence, what the report highlights is that by educating consumers in energy efficiency there are many benefits apart from reducing costs, increasing disposable income and lowering harmful emissions. The impact and benefits are felt not only by the consumer but across society as a whole.

We also believe it is society that must make the decision to change their energy consumption habits and move towards generating their own electricity using current and new alternative energy generation devices.

The United States and many European countries have already begun initiatives to educate consumers in reducing their energy consumption. One initiative is the introduction of smart meters which provide the consumer with real-time energy usage causing consumers to be aware of their energy consumption and cost, which in turn enables them to be more energy efficient.

It could be argued smart meters mainly benefit the supplier in terms of energy savings and peak load transfers, but the creation of these smart grids will also enable a more efficient use of alternative energy and will provide the opportunity to sell consumer-produced electricity back to the grid.

Technologies in solar, wind and thermal energy generation have come a long way over the last decade and are constantly evolving, becoming more efficient and will be more attractive to consumers as ROI improves. Government subsidies have helped in consumer adoption of solar and wind energy generation, however many of these subsidies are coming to an end as they now threaten the status quo of energy domination by the large corporate energy suppliers.

The energy poverty problem

Energy poverty is a term used to define a lack of access to modern energy services.

There are an estimated 1.1 billion people today who do not have access to electricity and rely on the use of biomass, coal and kerosene for cooking which is linked to some 2.8 million premature deaths per year from household air pollution (iea.org, 2017).

It is hard to believe that so many people die due to not having access to what we all take for granted. This is due to living in remote locations or an emerging economy where the infrastructure is still developing and it is unlikely this will change anytime soon.

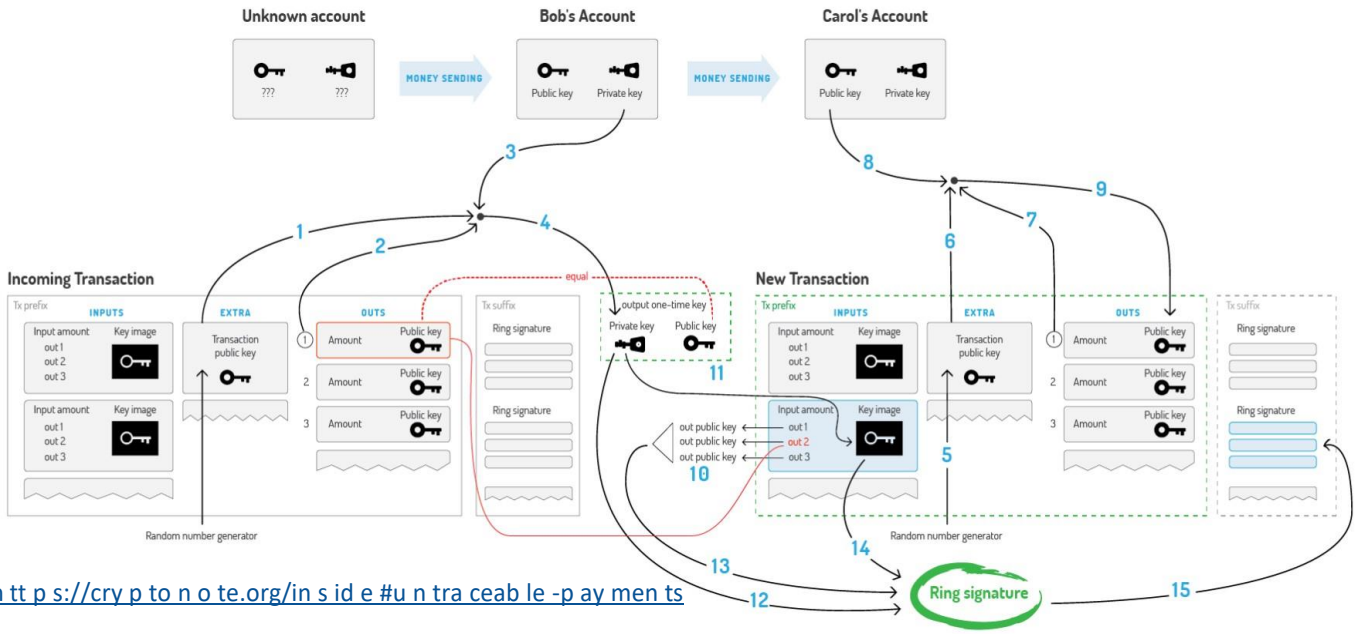
The development of new alternative energy generation devices could provide those in remote locations with clean electricity and help reduce the risks associated with biomass, coal and kerosene usage.

Our Solutions
FREDEnergy (FRED)

To try and solve these problems we need to disrupt the cycle.
Blockchain and cryptocurrencies are disruptive technologies and provide our project with an ideal opportunity to gain traction and credibility within a short space of time.

With this in mind we created our cryptocurrency FREDEnergy (FRED) which was forked from the highly developed TurtleCoin. We chose to fork code rather than develop a new blockchain core due to the time and resources it would require to develop. Additionally, we chose one of the most highly developed and maintained code bases. TurtleCoin has one of the largest and most talented communities of developers and are leading the way with new innovations in blockchain. By using the base code, we are able to follow their progress and apply tried and tested updates to our coin code.

Using CryptoNote technology at its core, FREDEnergy (FRED) has similar privacy features as Monero and ByteCoin where transactions are unlinkable and payments untraceable.



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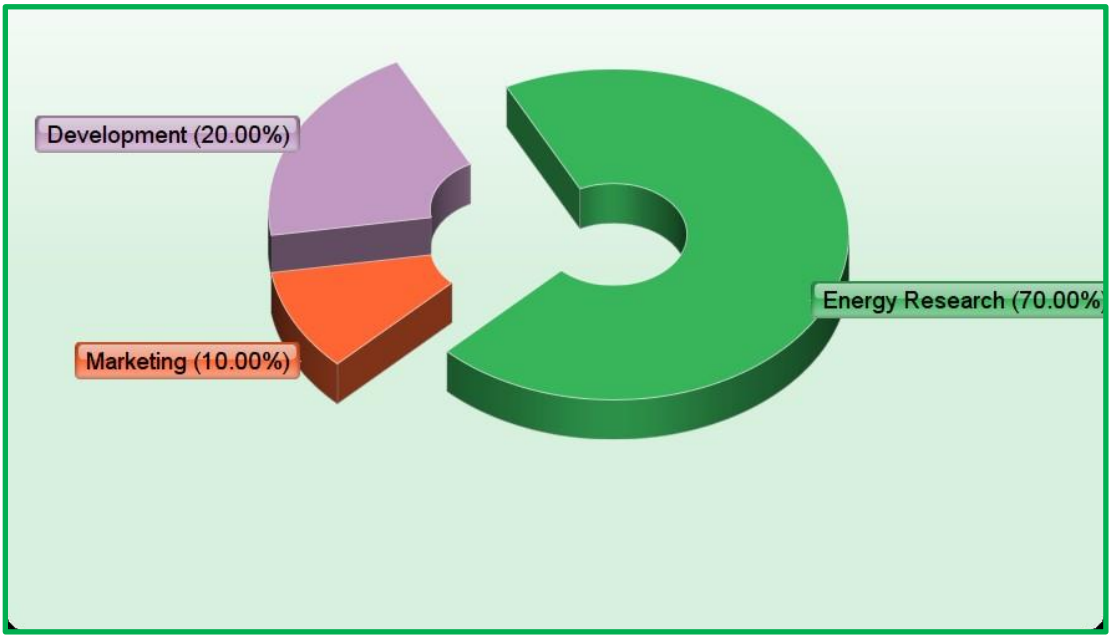
Specifications

Coin name : FREDEnergy	Ticker : FRED
Algorithm : CN-Lite V7	Emission rate : 20
Max Supply : 8,080,000,000	Pre-mine: 7% 565,000,000
Block Time: 120 Seconds	Current Reward: Approx. 6500 FRED

Pre-mine distribution

There was a pre-mine of 7% of the maximum supply of 8,080,000,000 coins. This amounts to 565,000,000 coins to be allocated as follows;



10 % Marketing – 56,000,000 20 % Website and directory development – 112,000,000

70 % Funding for energy device research – 395,500,000

There was also a small amount of coins mined during testing which have been used for airdrops and giveaways.

Pre-mined coins will be traded gradually and only when they have value towards the projects objectives. We will not dump our coin in any large amounts that could affect the price for other holders.

We aim to be as transparent as possible and a spreadsheet will be available from http://fredenergy.org detailing the current pre-mine holdings.

Exchanges

We are currently listed on the following exchanges with more to be added as we progress and secure listing fees. All listing fees so far have been funded by the founder of the project and will be recovered later in the project.

BiteBTC Digital Currency Exchange

TRADESATOSHI CRYPTOCURRENCY EXCHANGE

FINEXBOX

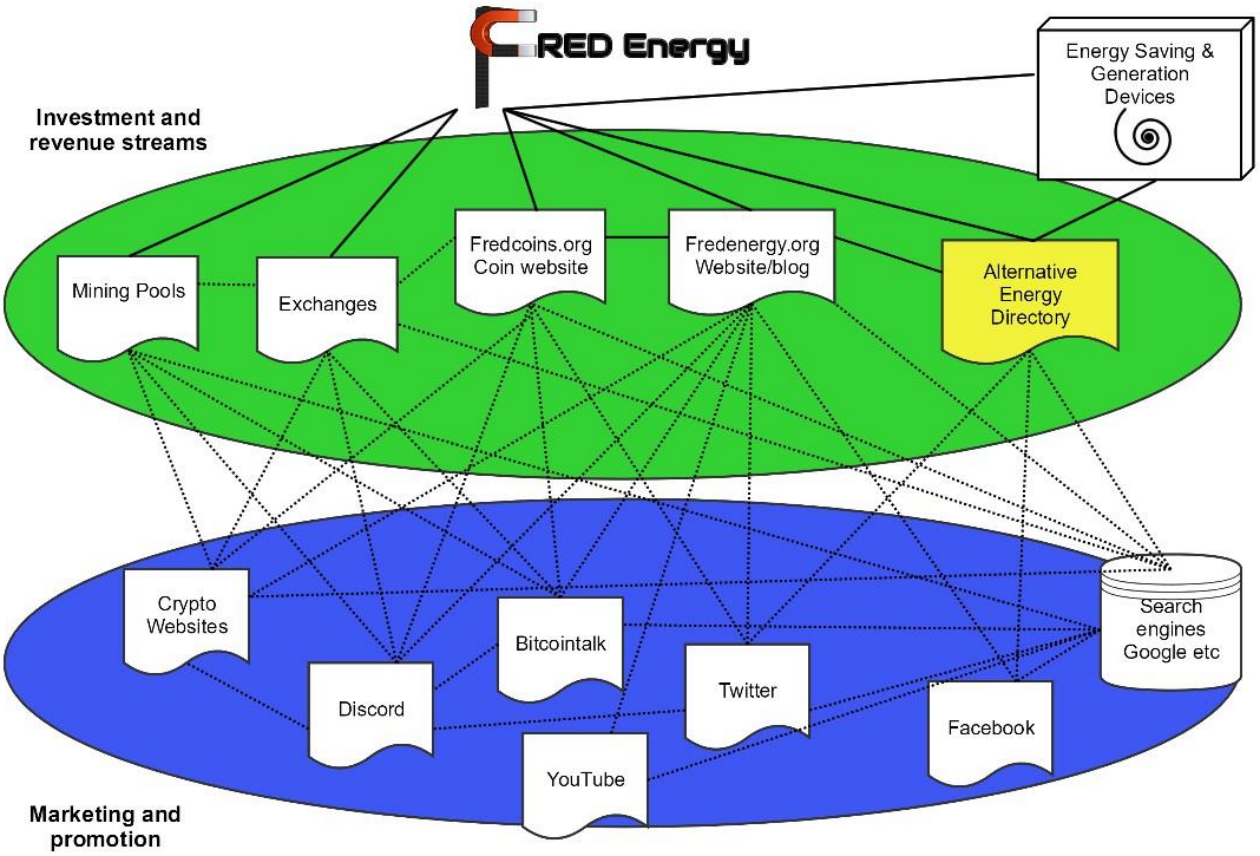
Our solutions continued

We understand cryptocurrency mining is not environmentally friendly and may make our project seem slightly hypocritical, however, we currently view it as the best platform to get our project started and help raise awareness and promote the benefits of consumer energy generation and bring new alternative energy devices to market.

Phase 1
Alternative energy directory

The development of an alternative energy directory that will feature alternative energy products from around the world listing manufacturers, suppliers, distributors and installers all brought together in one place with the possibility of payments being made in our cryptocurrency FRED.

Initial inclusion in the directory will be free to enable building a large database and is scheduled for going live in Q3 2019. As we progress we will work to create partnerships to generate revenue and promote the use of FRED as a payment method.



Part of our project also involves the development of a project blog that will feature the latest news from The FRED Project, ideas from alternative energy inventors, promote current alternative energy devices and provide the latest information and resources to enable consumers, inventors and investors to make informed decisions and raise the profile of our project.

Phase 2

Development of new energy devices

There are engineers, scientists and hobbyist inventors developing technologies that will one day totally release us from fossil fuel reliance. The main problem many of them face is the lack of resources or funds to fully realise their inventions. One of our objectives is to collaborate and create partnerships with these technology developers and provide funding for projects that could change the energy system we know today.

Due to their massive R&D budgets, the technology probably already exists within the global energy corporates, however, not in our lifetime nor our grandchildren's will this ever be released unless projects such as ours bring it to the mainstream first.

The future of energy saving and energy generation devices

We are firm believers in the possibilities of future energy generation devices based on theories using magnets and free electrons. There are many claiming to have invented a free or energy generating device and while some are clearly fake others are elaborate, well designed and based upon plausible theories. A point to consider is that an inventor will not be rewarded for a non functioning device so why would they spend so much time and resources developing something only for it to be a fake and a scam?

There are a couple of points to make before we continue into the mysterious world of magnetic energy generation;

- There are **open systems** which allow interactions between their internal elements and the environment and **closed systems** that are isolated from their environment.

- The **law of conservation of energy** states that the total energy of an isolated system remains constant; it is said to be *conserved* over time. This law means that energy can neither be created nor destroyed; it can only be transformed or transferred from one form to another **(closed system)**

- Magnetism (**open system**) is a quantum mechanical phenomenon that cannot be explained by classical physics (Bohr–van Leeuwen theorem)

- Many of the proposed magnetic energy generator designs are considered to be operating as **open systems** and therefore the **law of conservation of energy** does not apply

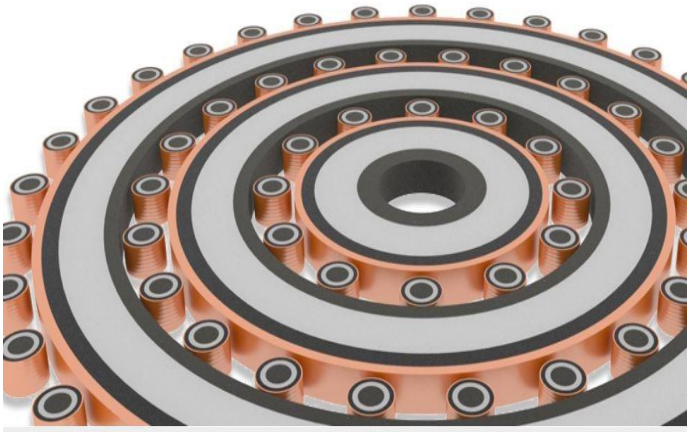
- Science is evolving, and new discoveries are made everyday that defy our current knowledge and understanding, an example is Quantum Theory Demonstrated : Observation Affects Reality

  "We have something much better to work for, a greater task to fulfil. We have to evolve means for obtaining energy from stores which are forever inexhaustible, to perfect methods which do not imply consumption and waste of any material whatever". Nikola Tesla

Examples of future energy generators

Our initial research identified several plausible devices and we have highlighted two which we believe to be real developments in the field of magnetic energy generation devices. The following devices have been developed over many years and are now nearing final development stages. Although we are not currently associated with the following projects, we are aiming to develop partnerships with these or similar projects and be associated with a new era of clean energy generation.

The Spatial Effect Generator



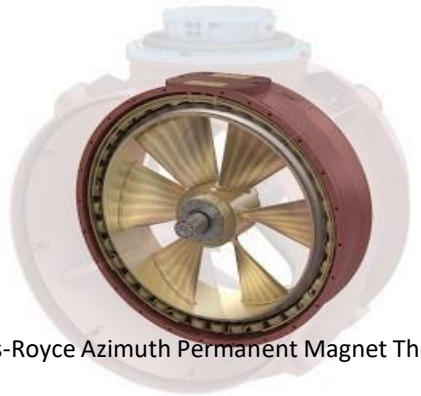
The Spatial Effect Generator - (SEGMagnetics, 2018)

Following on from the work of Professor John Searl, the Spatial Effect Generator utilises magnetic waveform energy and requires no fuel to operate other than free-floating electrons, which are abundant in nature.

Current developments include a 15KWh system capable of powering the average household.

The research company developing this device is SEG Magnetics and as of writing we have since learned they are having a Token ICO aimed to provide funding for the further development of this device which they claim will eventually go on sale for around $31,000. Although this seems expensive, they claim it will generate electricity 24/7 365 days a year with a lifespan of 99 years and will eventually generate an estimated $360 a day revenue by selling back to the supplier (UEC, 2018).

To provide further proof of the capabilities and possibilities of magnet driven devices, commercial applications such as the Azimuth Permanent Magnet Thruster developed by Rolls-Royce is using similar technology and concepts.



Rolls-Royce Azimuth Permanent Magnet Thruster

The Magnetic Energy Generator

Another Electromagnetic Generator has been developed which is claiming to be a 10kW perpetual motion energy generation device using permanent magnets and bifilar coils.

The developers of this energy generating device are currently taking pre-orders and state they will soon be available to the public at $15,000 USD through official distributers. The device is reported to produce between 10-30kWh of electricity and has the following technical specifications.

Total capacity	13050 W
Control system consumption	50W
Motor consumption	Idle – 200W, full load – 3KW
Generated voltage	900 AC
Generated frequency	400Hz
Generated current:	11.2A
Effective voltage output	110V / 1 phase / 100A 220-230V / 1 phase / 50A 220-230V / 3 phase / 16A 380-440V / 3 phase / 16A
Effective power output	10KW
Effective frequency output	50/60Hz
Motor rotation	1500 rpm
Dimensions	750x715x528
Weight	80 kg
Noise generation	60dB
Operation temperature range	-40°C ~ 70°C
Recommended retail price	**$15,000**

https://infinitysav.com/

Infinity Sav is the company behind this and many other inventions and patents that aim to revolutionise renewable energy solutions. Both Infinity Sav and SEG Magnetics are just two examples of future innovators developing technologies that will release us from fossil fuel reliance and make energy affordable and available to all.

Although the energy devices mentioned may seem overpriced, a 10kW solar panel system would cost between $18,000 to $25,000 in the U.S. and would require approximately 65 square meters of roof space. The benefits of the proposed energy generation devices are that they are much smaller and can produce electricity 24/7 365 days a year, allowing the consumer to either store or sell back almost half of that generated.

Many of these theoretical and practical designs are classed as free energy generators, however they are not entirely free as many require some form of energy input to work. We have highlighted just two examples of proposed energy generation devices and the type of projects we would like to create partnerships with.

There are many similar designs and applications using permanent magnets to create energy and we firmly believe this area is where the next generation of green energy devices will be realised, our aim is to be part of the revolutionary change in alternative energy generation.

Where is the value for investors?

Our project has several possible revenue streams;

FRED

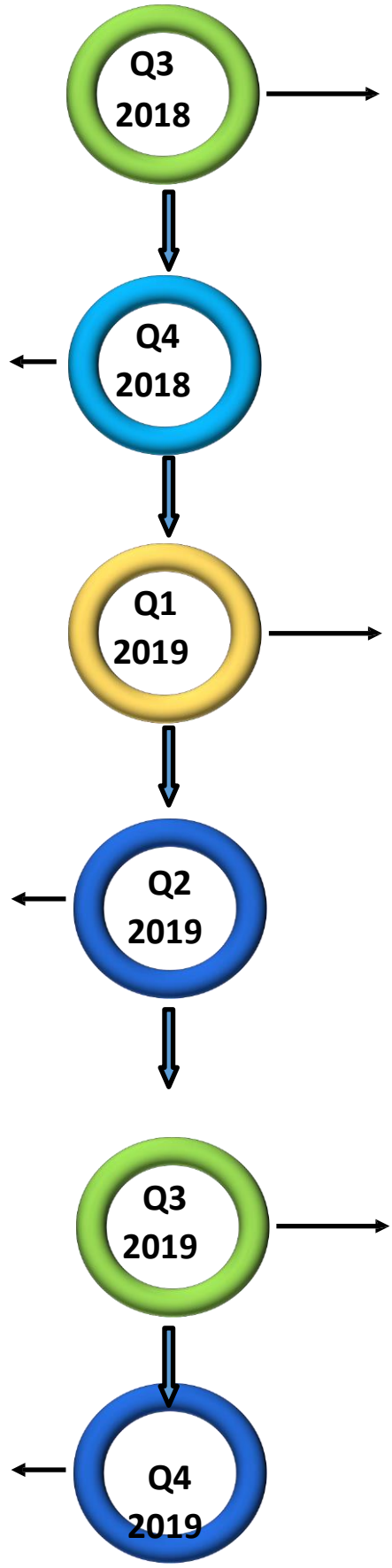
Partnering with inventors and providing funding towards their projects will raise our profile and give way to opportunities for shared investments into their products. We also aim to position ourselves at the heart of the new energy revolution by promoting acceptance of FRED as a payment method.

The Directory

The development of our global alternative energy directory will connect the supply chains of alternate and new energy devices and will feature suppliers, distributors and installers enabling a consumer to source an appropriate solution at the best price.

As the project progresses, our portfolio of websites and social media profiles will aim at increasing awareness of the project which in turn will generate interest and investor participation.

Roadmap



The FRED Project

Team community

We live in a world where large corporates control corrupt governments and where anything that threatens the status quo is quickly brought in line either by new laws or underhand tactics.

As mentioned earlier in our whitepaper, FRED is a privacy coin where users, transactions and payments are anonymous and untraceable, and we believe this should also be the case for the development team.

This may cause concern for some on a trust level as it raises the question “how can I trust something unknown?”. Whether you trust our team and project will be a personal choice, but we will aim to be as transparent as possible in an effort to build trust with our investors to the project.

The project vision is that of the founder Fredenrg, but the continued development of the project comes from community contributors some who are paid in our coin while others contribute for free. Paid or un-paid our contributors believe in the future possibilities of the project and come from many backgrounds with a wide range of academic levels, skills and experience in all aspects of blockchain, cryptocurrency and engineering projects.

The vast knowledge skills and experience of our contributors will enable us to be a leading project in a niche area where we are one of a very few projects of this kind. You will no doubt begin to see many more like us as we progress and the reality of our project hits home.

Our aims and objectives

Aim - To raise awareness and promote the benefits of alternative energy generation at the consumer level and explore the possibilities of new energy saving and generation devices whilst providing value for investors.

Objectives

To bring the possibilities of new energy generation devices and energy saving solutions to the general consumer by Funding Research into Energy Devices (FRED).

Validate and partner with energy device developers and to be associated with the early adoption of magnetic energy generation and energy saving devices.

Provide information and resources in the field of alternative and new energy devices to the consumer to generate a greater uptake.

Create a global directory connecting suppliers, distributors and installers of consumer grade alternative energy devices to include solar, wind, thermal and new energy saving and generation devices.

To have our cryptocurrency accepted as a payment method within the alternative energy sector.

The future of the FRED Project

We will continue to develop our project based on our aims and objectives and although our project could be considered eco-aware, charitable and ethical in nature we fully understand that investors require a return. As with any business, we will be constantly striving to create value for our investors wherever we see an opportunity that complements our aims and objectives.

Blockchain and cryptocurrencies are disruptive technologies and provide our project with an ideal opportunity to gain traction and credibility within a short space of time. We understand cryptocurrency mining is not environmentally friendly and consumes massive amounts of energy which may make our project seem slightly hypocritical.

Should we later face heavy criticism in this area or find ourselves not making the progress we had hoped due to availability of project funds, there is the possibility of moving to an ERC-20 token.

Although there are no immediate plans for this, existing FRED coin holders would be our priority and they would be compensated with above the equivalent market value of tokens. During this phase, an Initial Coin Offering (ICO) would also take place to raise the funding required to enable us to reach our goals.

Conclusion

We hope that our initial whitepaper clarifies our aims and objectives, answers any questions you might have regarding the project and what we hope to achieve. We also hope that you kept an open mind to the possible outcomes relating to future energy demands, future energy devices and the technology mentioned.

Disclaimer

Some of this work is partially based on the World Energy Outlook 2017 and Benefits of Energy efficiency developed by the International Energy Agency, © OECD/IEA 2018 but the resulting work has been prepared by The FRED Project and does not necessarily reflect the views of the International Energy Agency.

Investing in cryptocurrencies is extremely risky due to the volatility of markets, please do not invest more than you can afford to lose. Whilst we aim to be successful, there are no get rich quick schemes that ever succeed! We are not out to make a quick profit, we believe in steady growth towards our goals.

Website/ Blog - fredenergy.org

Mining FRED - fredcoins.org

Discord - https://discord.gg/uhAjg9w

Bitcointalk - https://bitcointalk.org/index.php?topic=5036632

Twitter - https://twitter.com/energy_fred Facebook

- https://www.facebook.com/fredproject/ YouTube -

https://youtu.be/F6hFBt2krxE

Reddit - https://www.reddit.com/user/fredenrg

Telegram - https://web.telegram.org/#/im?
p=@FredenergyAnnouncements

Contact – mailto:info@fredenergy.org

Version	Author	Date
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The FRED Project