



**Alpha Prospects**  
Innovative Energy Solutions

**INVESTMENT OPPORTUNITY - GLOBAL VIEW**

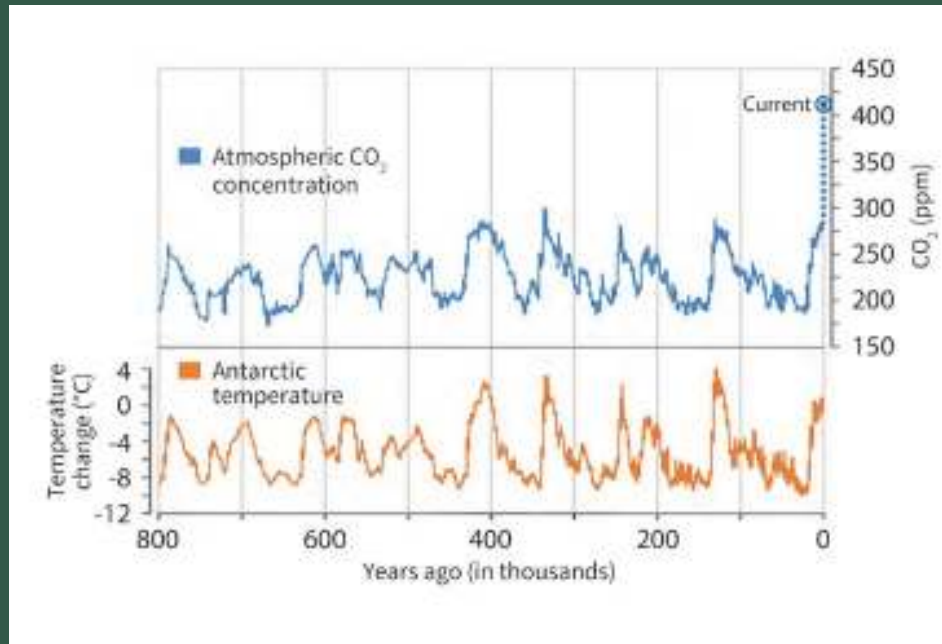
August 2024

# INTRODUCTION



- Alpha Prospects is a private investment management company registered in the United Kingdom.
- For a number of years it has been supporting inventor Malcolm Bendall and his Strike Foundation in the development of a rediscovered technology.
- The technology enables the reduction of CO<sub>2</sub> and other harmful emissions from engines while at the same time providing fuel savings of up to 50%.
- A second application is the recovery of waste heat energy and harmful emissions from the chimneys of industrial processes
- Alpha Prospects together with the Strike Foundation have established a number companies that have been set up to market the inventions.

# CO<sub>2</sub> EMISSIONS CAUSE GLOBAL WARMING



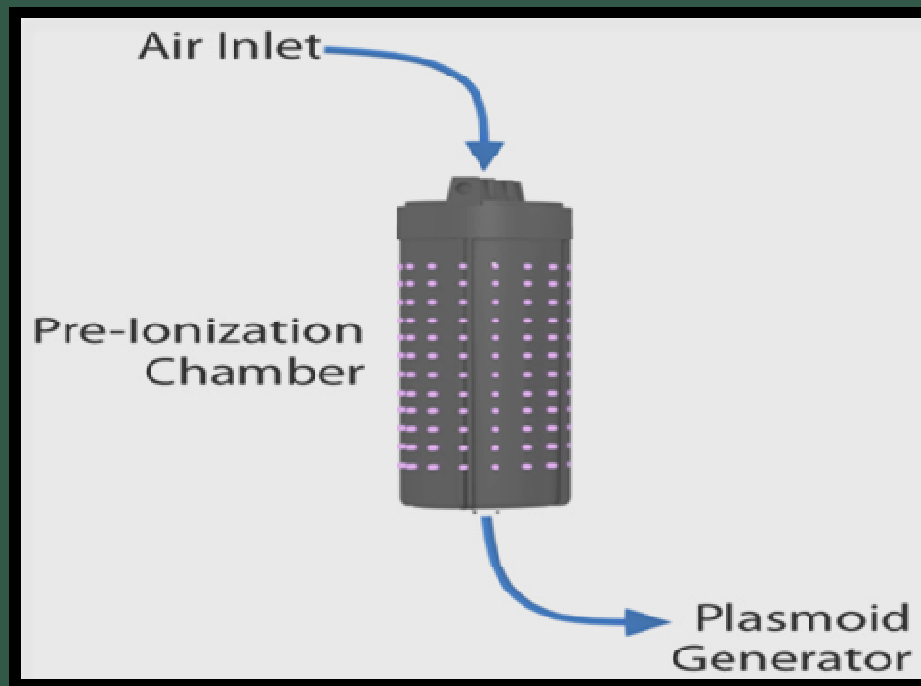
- The graph alongside shows that for the last 800,000 years the atmospheric concentration of CO<sub>2</sub> was below 300 ppm.
- It is now over 400ppm and climbing.
- There is a direct correlation between Antarctic temperature and the amount of CO<sub>2</sub> in the atmosphere.
- The world is facing the crisis of global warming caused by increasing CO<sub>2</sub> emissions. The consequences if we are unable to limit the rise in average temperature from pre industrial times to 1.5 degrees C will be catastrophic.

# SOLUTION



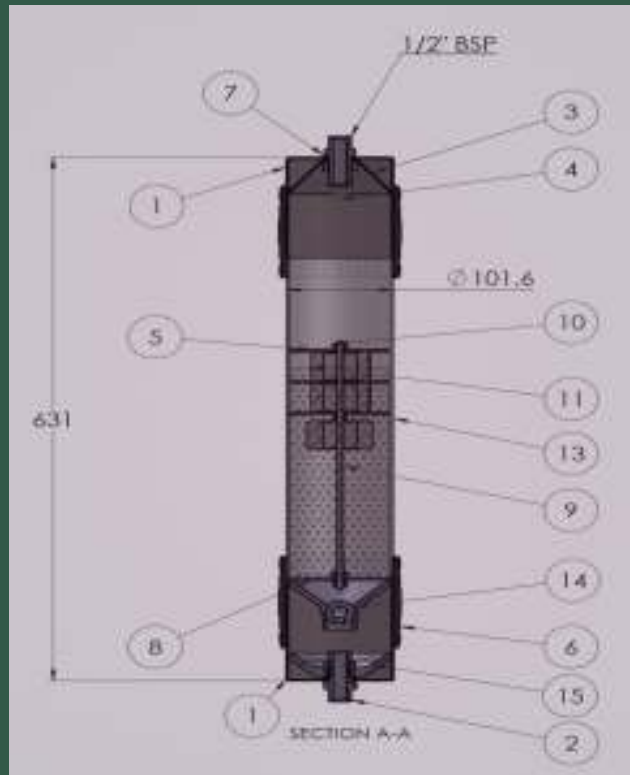
- A new technology has been developed by inventor Malcom Bendall. The device known as a MSAART Plasmoid Generator creates plasmoids, small balls of plasma contained in a magnetic field.
- The plasmoids are created by cavitation bubbles induced in water, the plasmoid and water mixture passes through a resonator. Hot exhaust gases from the engine charge the plasmoids and energy is released in the form of plasma, which is sufficient to change the molecular structure of the exhaust gases.
- The  $\text{CO}_2$  and other harmful emissions are transmuted to  $\text{O}_2$ . At the same time the plasmoids are injected into the engine combustion chamber and used as a alternate source of energy significantly reduce fuel consumption.

# THE PROCESS - *STEP 1*



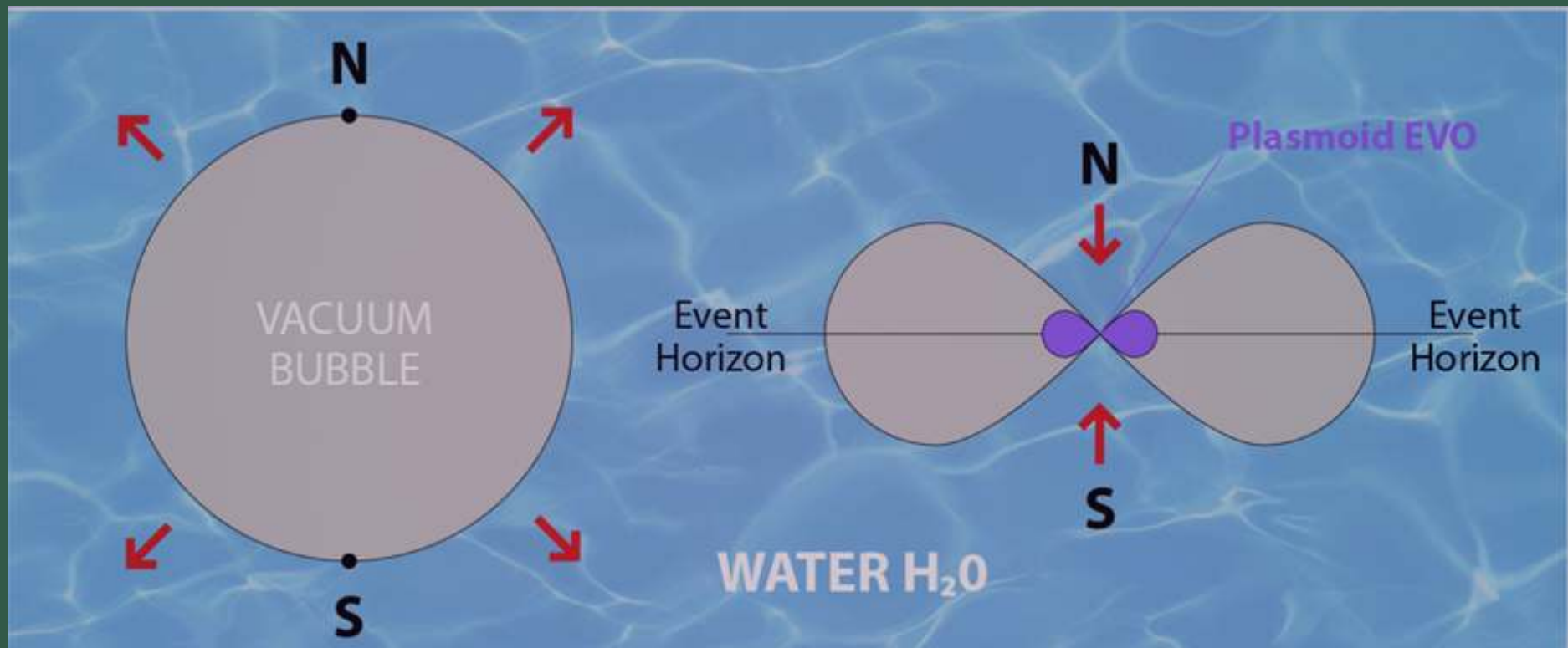
- Air is drawn into a chamber by a vacuum emanating from the exhaust of an engine
- The air is pre-treated by exposure to ultraviolet light at a specific frequency of 100  $\mu\text{m}$ .
- This frequency is determined by the frequency of ultraviolet light emitted from collapsing bubbles within the MSAART Plasmoid generator.

## THE PROCESS - *STEP 2*

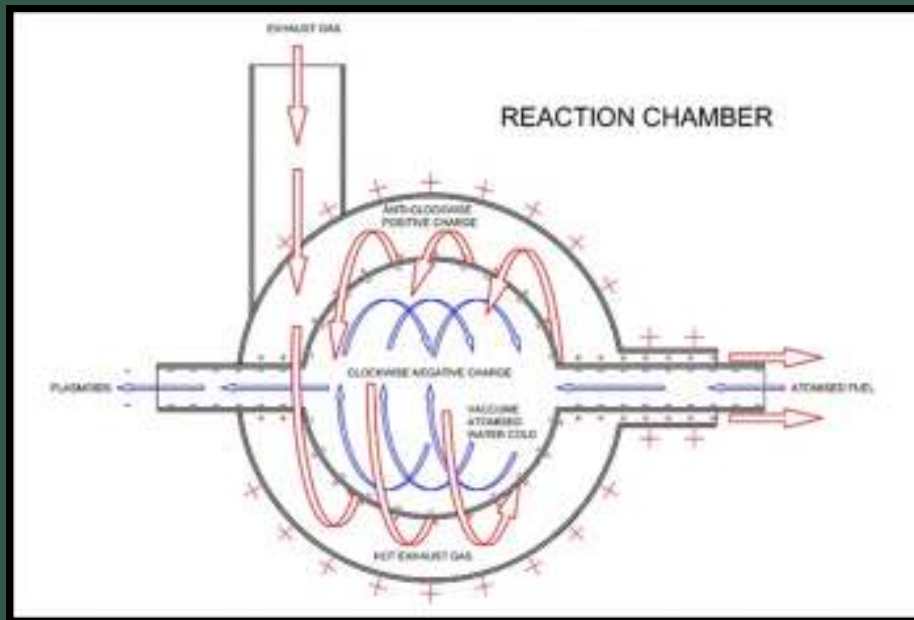


- The plasmoids are formed in water by passing the ionized air through a diffuser, then over a catalyst
- The plasmoids are then generated by collapsing cavitation bubbles, which are first created by a vacuum and then imploded by applying pressure

# THE SCIENCE – *PLASMOID CREATION*

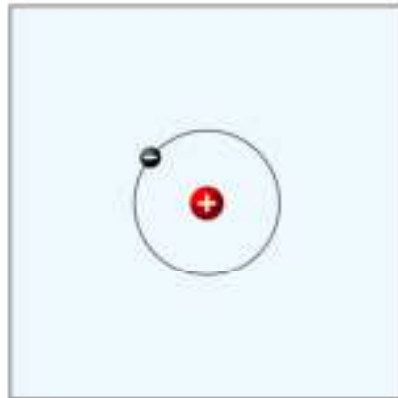


## THE PROCESS - *STEP 3*

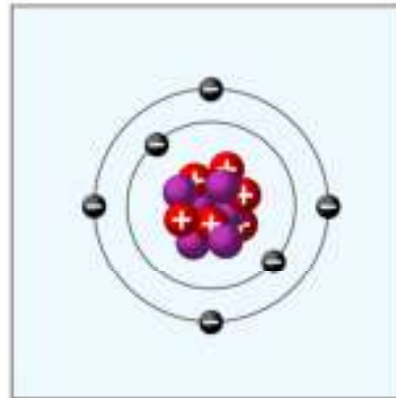


- The cold plasmoid and water mixture passes through the catalytic tornado resonator. This comprises two spheres.
- The exhaust gases from the engine charge the plasmoids; energy is released in the form of plasma, which is sufficient to change the molecule structure of the exhaust.
- Energy is transferred to the plasmoids retained in the water which are still in a gas phase, these are then added to the air intake of the engine.
- The plasmoids will only discharge in the presence of a net negative charge in the combustion chamber, making them inherently safe.

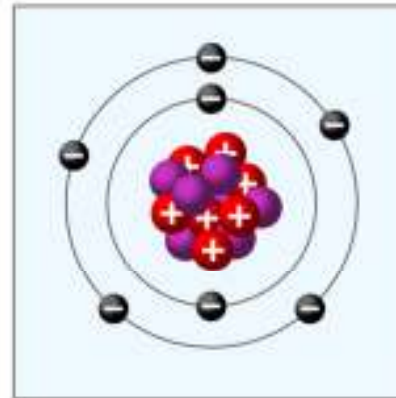
# THE SCIENCE – *THE ATOMS*



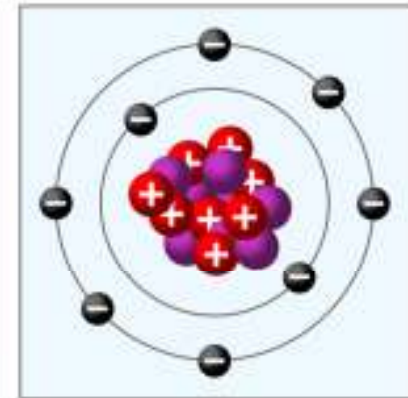
**PROTIUM (H)**  
PROTONS - 1  
ELECTRONS - 1



**CARBON**  
PROTONS - 6  
NEUTRONS - 6  
ELECTRONS - 6

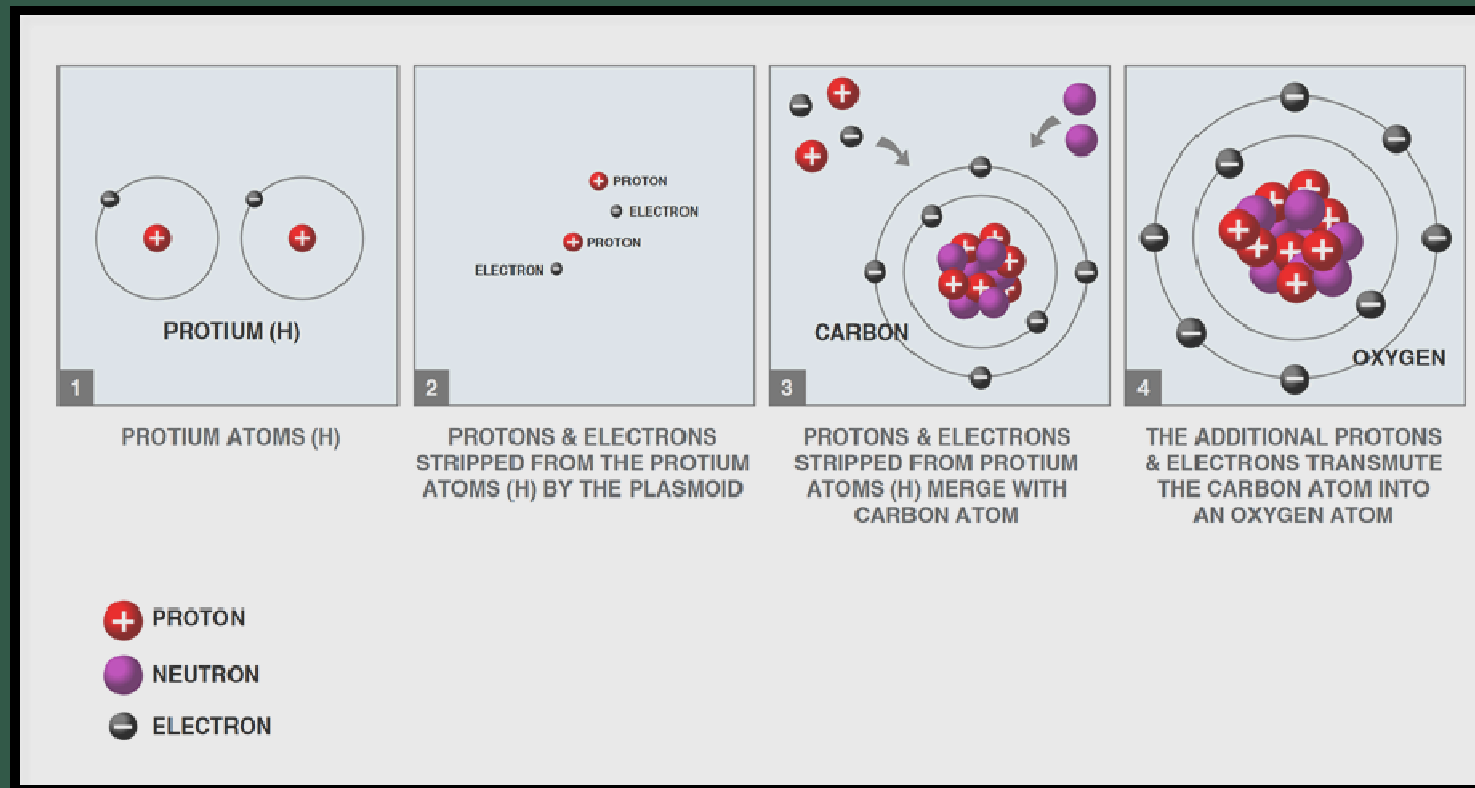


**NITROGEN**  
PROTONS - 7  
NEUTRONS - 7  
ELECTRONS - 7



**OXYGEN**  
PROTONS - 8  
NEUTRONS - 8  
ELECTRONS - 8

# THE SCIENCE - *TRANSMUTATION*



# RESULTS



- CO<sub>2</sub> – reduced by over 90%
- No NO<sub>x</sub> or particulate formation
- No Carbon Monoxide present
- 95% increase in oxygen output
- 50% increase in thermal efficiency

Leading to a changed world where some of the most energy intensive and polluting industries achieve nearly double their efficiency and emit only oxygen at ambient temperatures

# PATENT APPLICATIONS

- 2400943.3 – Linear Thunderstorm Generator (Filed 24<sup>th</sup> January 2024)
- 2400944.1 – Sphere Ratios (Filed 24<sup>th</sup> January 2024)
- 2405327.4 – Concentric Cylinder Thunderstorm Generator (Filed 15<sup>th</sup> April 2024)
- 2406188.9 – Implosive Turbine (Filed 2<sup>nd</sup> May 2024)

Also

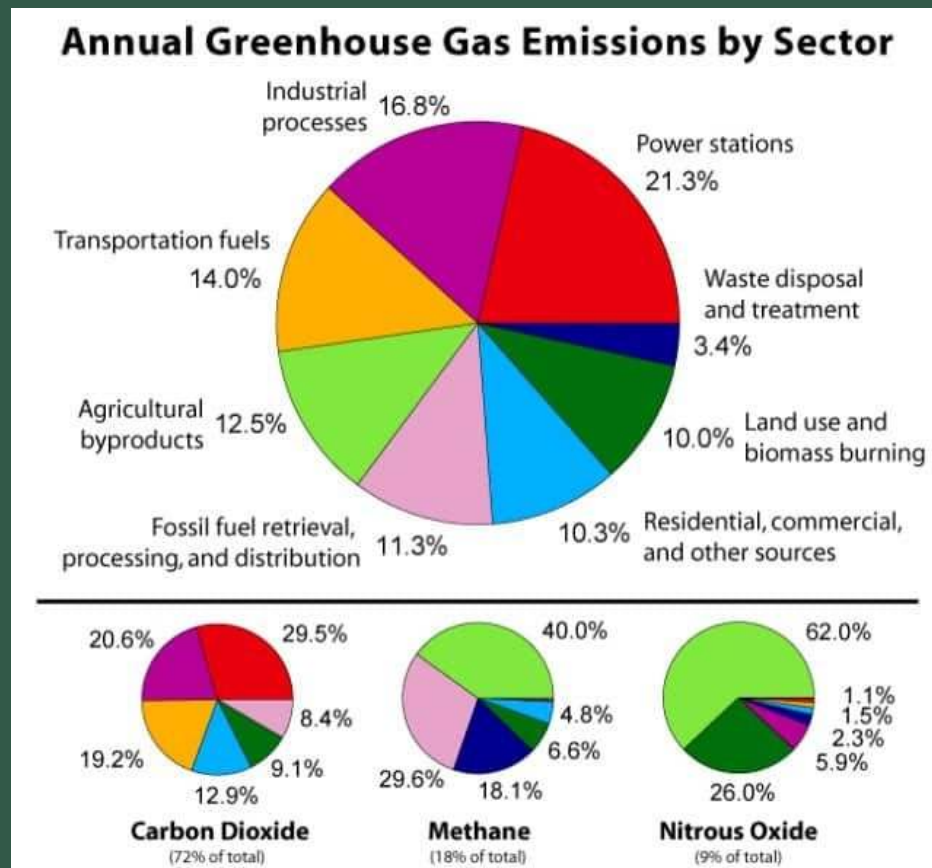
- P76463WO – PCT request relating to 2400943.3 (Filed 24<sup>th</sup> January 2024)

# PROGRESS



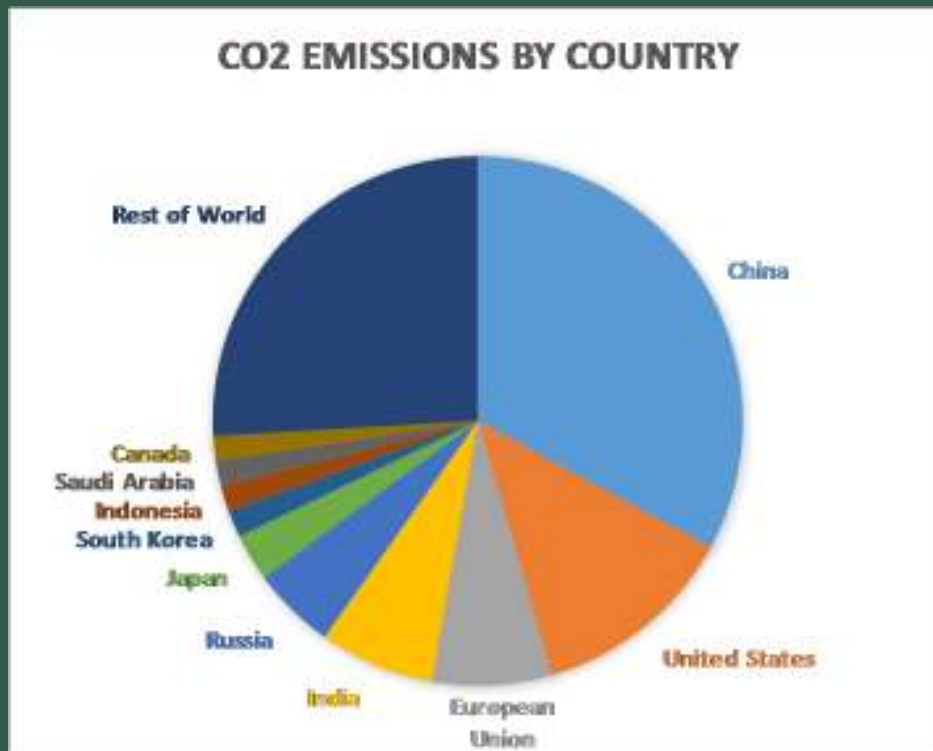
- The project to develop this exciting new technology and monetize the opportunity is well advanced:
- Research ✓
- Concepts ✓
- Small Scale Prototypes ✓
- Commercial Application ✓
- Working Sites ✓
- Patent Application ✓
- Commercial Licences ✓

# MARKET – *BY SECTOR*



- The world market for this technology is huge. In 2022 mankind emitted 83.5 Billion Tons of CO<sub>2</sub> .
- According to the latest report by the Intergovernmental Panel on Climate Change (IPCC), the world needs to halve its emissions by 2030 and reach net zero by 2050 to limit global warming to 1.5°C (2.7°F) above pre-industrial levels.
- This means that the world will have to reduce its emissions by about 19.25 billion tons of CO<sub>2</sub> per year, or 52.7 million tons per day, starting from 2023.

# MARKET – *BY REGION*



*The worlds top ten CO2 emitters*

- Alpha Prospects holds licences directly for:
  - India
  - Thailand
  - Malaysia
  - Nigeria
- Alpha Prospects has 30% class A shares in Strike Energy which holds licences for:
  - United States
  - European Union
  - Russia
  - Japan
  - South Korea
  - Canada

# MARKET DEVELOPMENT – *INDIA*



- Alpha Prospects has identified its preferred partners to commercialize the Indian market.
- They have a good working relationship with InvestIndia, a Government body tasked with supporting the introduction and growth of industrial ventures in the country.
- It will be necessary to carry out product testing at Indian Institute of Petroleum (IPP) which certifies engines for use in various government and non-government sectors.
- One of the partners has committed in principle to invest in a manufacturing and assembly line for these plasmoid power generators.
- Largest market shares for generators belong to Cummins, Kirloksar and Mahindra.

# MARKET DEVELOPMENT – *THAILAND*



- Alpha Prospects has set up Plasmoid Power Co Ltd as the vehicle to develop the Thailand market.
- Initial targets will be companies that rely on industrial generators such as hotels and in particular remote resort hotels, hospitals, factories and remote site industry. There will be large scale adoption by this industry when the fuel savings are demonstrated.
- Plasmoid Power will seek to form business relationships with the manufacturers of industrial generators.
- A concurrent strategy is to target the Electricity Generation Authority of Thailand (EGAT).
- EGAT has seven gas or oil fired plants and one coal fired power plant with combined capacity of 11.9 GW

# MARKET DEVELOPMENT – *MALAYSIA*



- Alpha Prospects is in discussions with a potential partner for development of the Malaysian market.
- This individual is well positioned to connect with appropriate customers and obtain the necessary endorsements from the Malaysian Government.
- The development of the Malaysian market will follow a similar course to that of Thailand.
- There are significant synergies between the two adjoining countries.

# MARKET DEVELOPMENT – *NIGERIA*



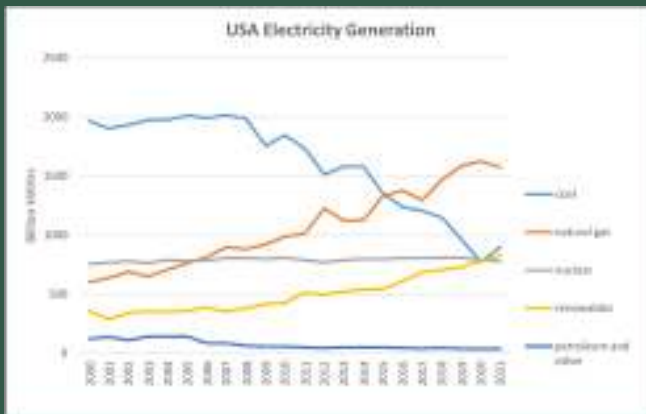
- Alpha Prospects sees an enormous potential opportunity in Nigeria as well as other African countries.
- The top six countries in the world generating energy by back-up generators are: Nigeria, India, Iraq, Pakistan, Venezuela, and Bangladesh.
- In Nigeria, it is estimated that the installed capacity of back-up generators is between 15–20 GW, while grid capacity is only 5–15 GW.
- It is estimated that Nigeria spends three times as much on back up generator power as compared to the grid.
- Alpha Prospects will leverage off its success in Thailand in the development of the plasmoid power solution.
- United Nations grants will be available due to the combined effect of raising the poverty level by reducing energy cost while also reducing CO<sub>2</sub> emissions.

# STRIKE ENERGY



- Strike Energy has the exclusive licence in territories that comprise almost all the major economies of the world.
- They are already in discussions with many of the core customer base.
- The sectors represented include: coal fired power stations, automotive, cement manufacturing, marine, rail and jet engines.
- Strike Energy is independently funded.
- The company is active in most of the territories that they have licences for.
- Alpha Prospects will benefit both directly as a major shareholder (it holds 30% of their class A shares) and indirectly via the royalty and dividend stream coming through from the Strike Foundation.

# STRIKE ENERGY – *COAL FIRED POWER PLANTS*



- Example of just one of many opportunities: The United States has 240 coal fired power stations producing approximately 899 Billion kWh
- Historically coal has been the major source of electricity generation in the United States. The demise of coal as a fuel source is as a result of the harmful emissions identified
- Power plant owners and operators have reported to EIA that they plan to retire 28%, or 59 gigawatts (GW), of the coal-fired capacity currently operating in the United States by 2035
- The plasmoid power generator enables the creation of plasmoids from the exhaust gases of the electric generation plant, these are then used as an energy source and to significantly reduce harmful emissions from such generation plants
- Once this is demonstrated to the EPA it will enable the coal generation industry to rethink its strategy and thus provide the US with electrical energy from coal without pollution and at a significantly reduced cost

# COMPETITION



- Our product is unique
- Competition has so far come from the established alternative energy solutions
  - Solar
  - Wind
  - Electric vehicles
- Our competitive advantage is that the product is a minimal cost “add on” that reduces fuel costs rather than an expensive alternative.

# TEAM



- The Alpha Prospects operation in Thailand will be headed up by Kevin Baker: He joined Derlite Thailand in 2005 and was invited to join the board of Cinpart Plc, since renamed Active Energy Group Plc in 2007. He was later appointed CEO and together with Christopher Foster, Executive Chairman successfully grew that company.
- Kevin purchased Derlite in 2010 and the first prototypes of the MSAART Plasmoid Generator were developed at the Derlite factory.
- He has a Bachelor of Technology (Industrial Management and Engineering) and extensive experiences in managing businesses in Thailand.
- Alpha Prospects in the UK is headed by Christopher Foster, an experienced investor and Company Director who has been very successful in developing Alpha Prospects from a new venture in 2007 to now a business with market value of over £80 million.
- He has done this by identifying and investing in businesses with potential at an early stage. More recently he has supported inventor Malcolm Bendall in establishing a network of companies that will take his ground breaking CO<sub>2</sub> emission eliminating, fuel saving invention to market.
- His advice on energy matters has been sought by the UK Government on a number of occasions.



# MONETISATION

- For Alpha Prospects there are a number of ways in which it will generate revenue:
  - Consolidation of majority (>50%) owned subsidiaries.
  - Dividend stream from other investments – in particular:
    - Strike Energy
    - Malaysian business
    - Indian business
  - Profit share from Strike Foundation (Alpha Prospects will directly receive 10%). Note all licensees must pay ongoing royalty fees.
  - Sale of licences.
- The business model being adapted by most licensees is that the customer will pay a percentage of fuel savings achieved on an ongoing basis.
- Per unit royalty fees are likely should licences be granted to large scale manufacturers (for example motor vehicle manufacturers)

# MONETISATION – *FUEL SAVING (GENERATOR)*

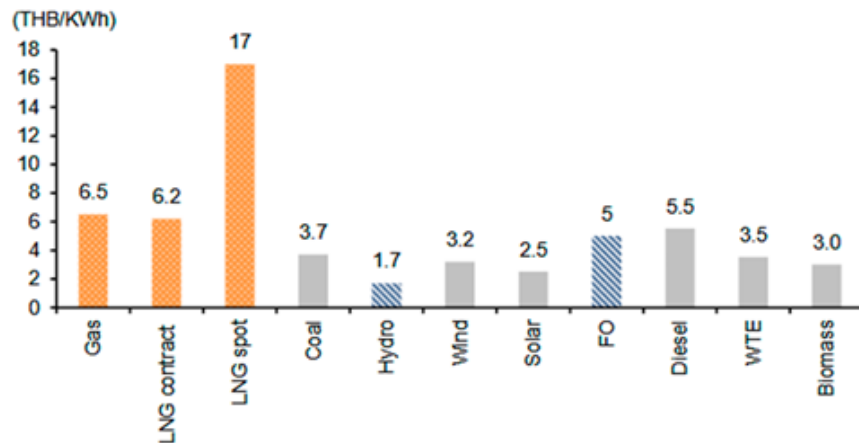


- Industrial generator. We estimate that there are over 4,500 such generators in Thailand.

|                  | Generator                  |
|------------------|----------------------------|
| Size             | 250kW                      |
| Fuel Type        | Diesel                     |
| Fuel             | £0.65 (USD \$0.82) / Litre |
| Daily Cost       | £940 (USD \$1,180)         |
| Savings Achieved | 40%                        |
| Royalty Fee      | 25%                        |
| Annual Royalty   | £33,800 (USD \$42,600)     |

# MONETISATION – *FUEL SAVING (POWER STATION)*

Exhibit 27: Estimated electricity production costs in Thailand by fuel type



Sources: EGAT; EPPO; FSSIA estimates

- EGAT's smallest power plant located in Krabi.

|                  | Power Station                      |
|------------------|------------------------------------|
| Size             | 318 MW                             |
| Fuel Type        | LNG                                |
| Fuel             | = 3 Baht (£0.065 – USD \$0.82)/ Kw |
| Daily Cost       | 18.3 million Baht (£400k - \$500k) |
| Savings Achieved | 40%                                |
| Royalty Fee      | 25%                                |
| Annual Royalty   | 668.5m Baht (£14.5m - \$18.3m)     |

# OTHER SIGNIFICANT INVESTMENTS

- Clifton Africa Ltd: has trading activities throughout Africa, operating primarily in the construction sector, including building modular panel built houses, apartments and medical clinics.
- Capital Plus Partners: is a corporate finance advisory business focused on smaller companies and providing access to funds. It also oversees and provides regulatory cover for fellow group member. The Angel Business Club which invests on behalf of international parties.
- Redford Day: is a US investment company focused on serving the needs of early stage businesses. The partners span an array of industries including but not limited to the medical field, the restaurant industry, ticketing events, software, and more.
- Coleridge: is a natural resources holding company that owns the mineral leases covering approximately 24,000 acres in Kentucky, USA. CRI currently holds reserves in excess of 150m tons of recoverable, low sulphur, high btu coal. Alpha Prospects holds 25% of this venture.

# CONTACT DETAILS

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