Partnership

An invitation to collaborate by Bertie Ivory-Peters

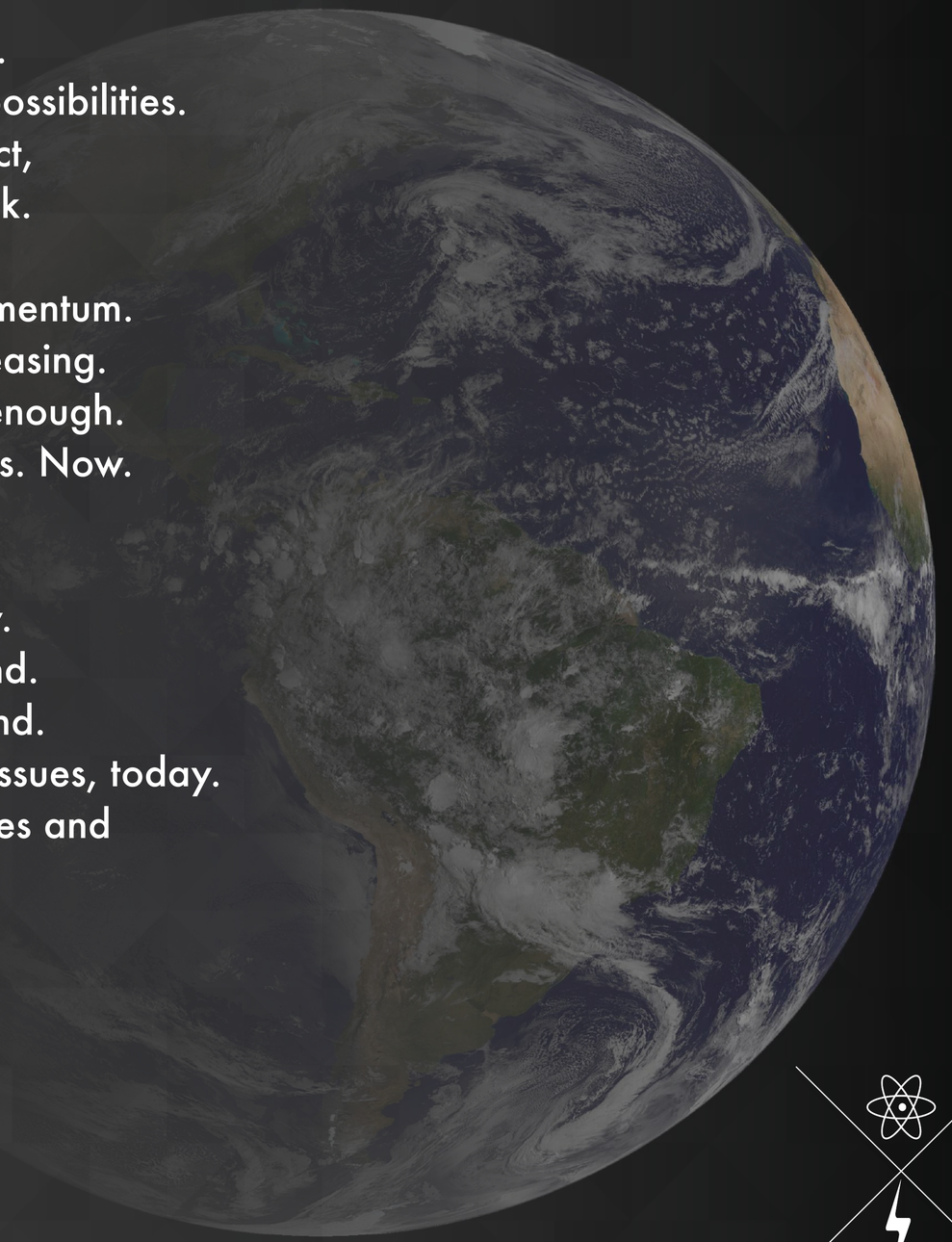
Earth is home to us all.
But this home is quickly and uncontrollably being destroyed.
We need to change things to stop challenges becoming impossibilities.
This generation needs to change the way we behave and act,
But more than anything we need to change the way we think.

Slowly but surely these crucial transitions are gathering momentum.
All around the world investment in new technologies is increasing.
Problematically, these technologies aren't enough, quickly enough.
We need a viable solution to wean ourselves from dirty fuels. Now.
Nuclear Energy is a viable and attainable solution.

Perception and opinions continue to plague nuclear viability.
Education and changing politics can help turn opinions round.
New technologies provide an opportunity for fuel on demand.
Alongside renewable technologies these can solve today's issues, today.
A clean and green future is achievable with the right attitudes and collaboration.

This is an invitation to collaborate and invest in the future.

To invest in today. Today.



Why are you reading this?

1

Holding a 1st Class Chemistry degree, I applied and was accepted to The University of Cambridge for their Nuclear Energy MPhil course. The course aims to develop future leaders in nuclear energy and prepare them best to have a lasting impact on the world.

I want to tell you why I've chosen this path and why I want you to help me to fund my studies.

I’m lucky to have a passion for the environment and a scientific brain to do something about it. I want to bond them together.

1

Through expertise and education I believe we can notably influence the way we, and generations to come, are able to live our lives.

I’m looking for this funding to help me realise my potential and have a meaningful impact on the world.

Why is it important?

Undeniably, Climate Change is here.

We live in an unprecedented time where what humanity needs and what the Earth needs are two very different things.

In the past century, the population has exploded and now the energy required to sustain the growth is higher than it's ever been. This energy has traditionally been produced from dirty fuels and the sheer quantity of them being used is leading to severe and irreversible change.

2

Huge steps have recently been taken to turn around the fate of this planet. COP21 is the first universally accepted climate change treaty and aims to limit temperature rise to 2°C above pre-industrial limits.

To hit this target, the world must **stop** emission growth by 2020 and then reduce emissions by 60% compared to 2010 levels by 2050.

Not so easy, right?

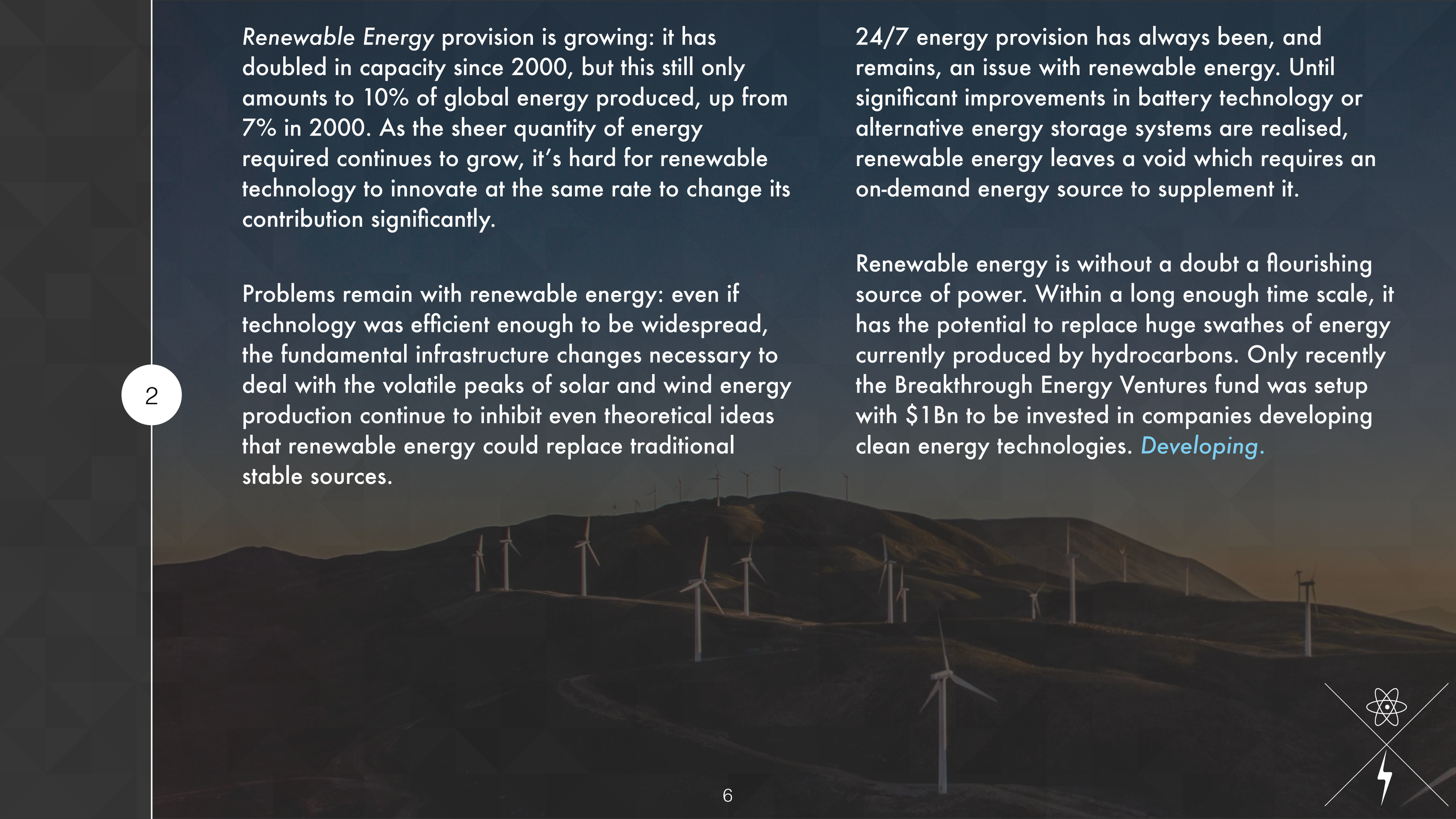
Renewable Energy provision is growing: it has doubled in capacity since 2000, but this still only amounts to 10% of global energy produced, up from 7% in 2000. As the sheer quantity of energy required continues to grow, it's hard for renewable technology to innovate at the same rate to change its contribution significantly.

Problems remain with renewable energy: even if technology was efficient enough to be widespread, the fundamental infrastructure changes necessary to deal with the volatile peaks of solar and wind energy production continue to inhibit even theoretical ideas that renewable energy could replace traditional stable sources.

2

24/7 energy provision has always been, and remains, an issue with renewable energy. Until significant improvements in battery technology or alternative energy storage systems are realised, renewable energy leaves a void which requires an on-demand energy source to supplement it.

Renewable energy is without a doubt a flourishing source of power. Within a long enough time scale, it has the potential to replace huge swathes of energy currently produced by hydrocarbons. Only recently the Breakthrough Energy Ventures fund was setup with $1Bn to be invested in companies developing clean energy technologies. *Developing.*



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The aforementioned *Breakthrough Energy Ventures* fronted by Bill Gates, among others, is focussed on developing technology. Based on the targets implemented at COP21, as a planet we are required to have peaked our CO_2 output by 2020. The likelihood of a *developing technology* making a significant change in the next three years is an almost impossible task.

The dates we're targeting clearly don't add up with the targets set. But what if we had a solution ready to go?

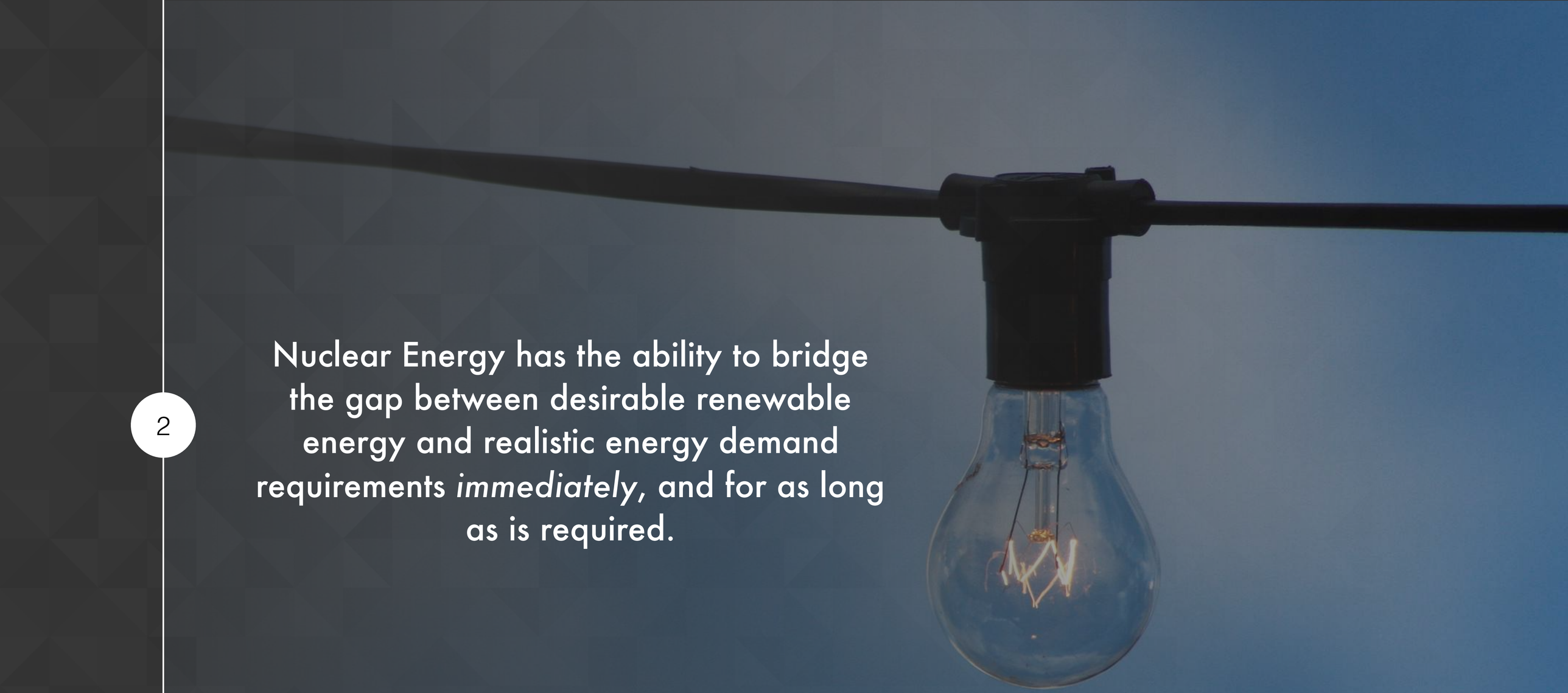
There will be times that renewable energy simply cannot provide energy on demand as required. Globally we need an alternative, continuous supply of energy, preferably one which we can use to immediately move away from hydrocarbon fuels. Nuclear energy has the potential to do just that.

In short, Nuclear Energy can be the silver bullet we're searching for.

"..the silver bullet we're searching for."

2

Nuclear Energy has the ability to bridge the gap between desirable renewable energy and realistic energy demand requirements *immediately*, and for as long as is required.



Nuclear Energy

Nuclear is a dirty word; too often linked to disasters, weapons and war, but that is far from the reality. Nuclear Energy is one of the purest and most efficient ways to produce energy on demand.

Some of the greatest scientists the world has ever seen believed in harnessing the power of the atom to benefit humanity. Their achievements are now constantly overshadowed, lost in politics and used as a fear-factor.

3

A lack of education, intentional bureaucracy and false perception impede widespread nuclear power as an antidote to some of the most pressing global energy issues. Outdated regulations and yesterday's mindsets continue to plague nuclear technology and stagnate nuclear innovation.

With a change in public perception, attitudes and belief, nuclear energy would undeniably help to combat the issues we're facing.

All around the world people are starting to realise the true power of nuclear energy and the renaissance in nuclear energy is gathering pace all the time.

- Innovation for new generation reactors is ongoing, and investment increases year on year in emerging markets such as India and China.
- Advancing technology improves safety, reduces the ability to generate weapon-grade material, and continues to reduce the amount of waste produced.
- Thorium-fuelled nuclear energy paves the way for a source without the traditional limitations and issues, whilst Small Modular Reactors could produce localised energy on demand.
- Fusion, contrary to fission technology, is considered a glamorous and modern way to produce energy. Ongoing experiments such as the *Iter Project* provide hope for nuclear energy with favourable public opinions.

We're waiting to discover or develop a miracle, but we've already got one.

3

"..one ton of thorium can produce as much energy as 200 tons of uranium, or 3,500,000 tons of coal."

Carlo Rubbia of CERN

3

Nuclear may be a dirty word, but can certainly provide a route to a clean future, a future I want to champion.

How can this partnership help?

4

I have the opportunity to study at one of the worlds finest educational establishments - The University of Cambridge.

The opportunities that this course can deliver, the people I can meet and the differences I hope to make to the planet are almost limitless.

Opportunities themselves are built on partnership, and partnerships lead to breakthroughs. I want to be at the forefront of those breakthroughs, to ensure that we can undo the monster we've created.

"Partnerships lead to breakthroughs."

4

With your backing, I can use my passion to help to ensure that climate change doesn't become climate destruction.

The financial, professional and practical support you can provide would help to leave a far-reaching and potentially groundbreaking legacy. The scientific breakthroughs that will be made in the coming century will be on a par with, or greater than, the early 20th Century innovations which shaped the world into what it is today.

Your support would be an investment for education, environmentalism, innovation and the next generation of life on planet Earth.

Climate Change is one of the most serious issues affecting the world, according to Millennials.

Global Shapers Annual Survey 2016
46% voted it as one of their top three - more than any other issue.

Who am I?

I want to devote myself to something more important in the wider world. I'm in the relatively rare position of being an accomplished scientist, but a confident speaker and leader too. In the coming decades, the planet needs people who can speak up for scientific decisions and my generation's opinions. These people need to confidently present the facts to the wider public with conviction and eloquence. I can be that person.

I have a track record of educational excellence. Throughout my educational career I've achieved the best grades continuously: straight As through school and a high first-class honours degree whilst studying Chemistry at the University of Birmingham.

I have proven leader experience and potential. From head of my junior school house, through to senior house leadership positions and captaining the house debating team as well as years of sports captaincy, I've always been earmarked as a future leader.

1st Class Chemist

5 School Leadership Positions

I have an impressive work history. From an early age I've supplemented my pure-academic effort with additional experiences in the business world. I've worked with investment banks, City corporates, Oil & Gas exploration companies and most recently, with start-ups. These placements have shown me a plethora of vantage points into how business is conducted and the roles that exist. This insight has helped to make my decision to go into next generation energy production to have the most extreme beneficial affect on the planet we live on.

I've built upon unique experiences. I've been working with start-ups for two years now and although the projects have been unique and fulfilling, it's time for me to seriously consider the impact I want to achieve in my lifetime.

I have a passion and drive to help. In bygone decades the high stake, fast pace environments have been finance and fossil fuel economies. Now I want to be at the centre of the new-era of discoveries and decisions and to work within the prime sectors of the 21st Century.

I want to commit myself to the most important challenges that we, as a species, currently face.

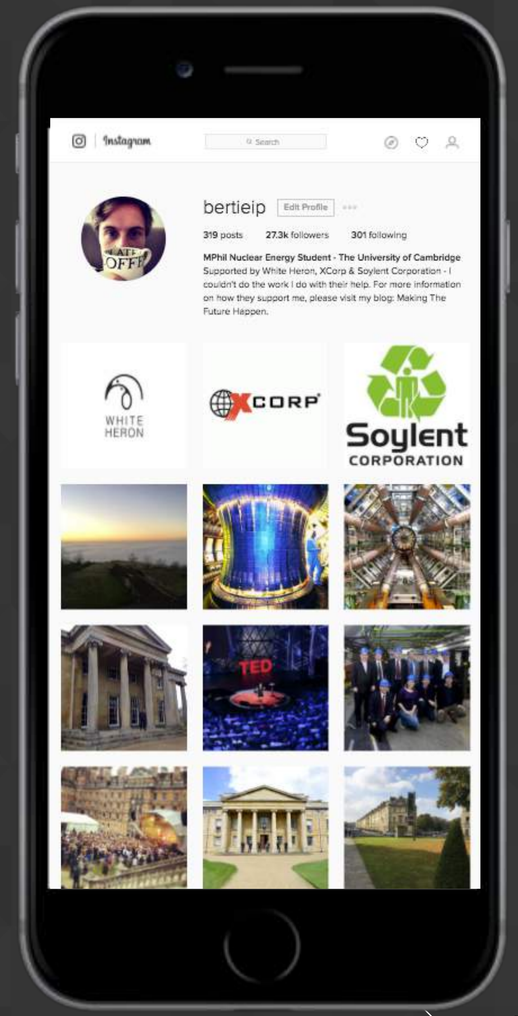
4 Sectors Worked In

1 Life's Worth Of Passion

What's in it for you?

I can provide a truly unique opportunity to give an insight from a non-traditional source. An opportunity for marketing, research and access which can be tailored for any relationship.

- Specific research on my thesis, relevant to work you're doing or want to investigate.
- Other research reports.
- Official thesis thanks can provide a forward thinking legacy within the education and energy sectors, as well as the wider scientific community.
- General access for insight, interviews and marketing.
- Opportunities to arrange for me to speak at conferences and events.
- A blog detailing my journey and the help I've received.
- Other social media access such as Facebook, Instagram and Twitter would provide an immediate outlet to a younger audience.
- An opportunity to talk about career options at the end of the course.



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These ideas are only the start of what we could discover together. With an opportunity to discuss further details, additional benefits and terms of the partnership, we could make sure that this project was as powerful as it has the potential to be.

- On top of access to me and my experiences, this opportunity provides access to the brightest and best of the next generation of scientists studying with me.
- I can provide direct access to the course, the college and the University. This is an opportunity to create an unparalleled connection to a community of the very best brains in the world.

I'm offering a personable route into a goldmine of knowledge, marketing potential and people.

"..a goldmine of knowledge, marketing potential and people."

7

Sponsorship Options Available

Gold: £5000 Sponsorship (0 available).

Specific thesis research topic, individual summary research reports, priority speaker opportunities and interviews.

+ all Silver and Bronze benefits.

Silver: £2500 Sponsorship (4 available).

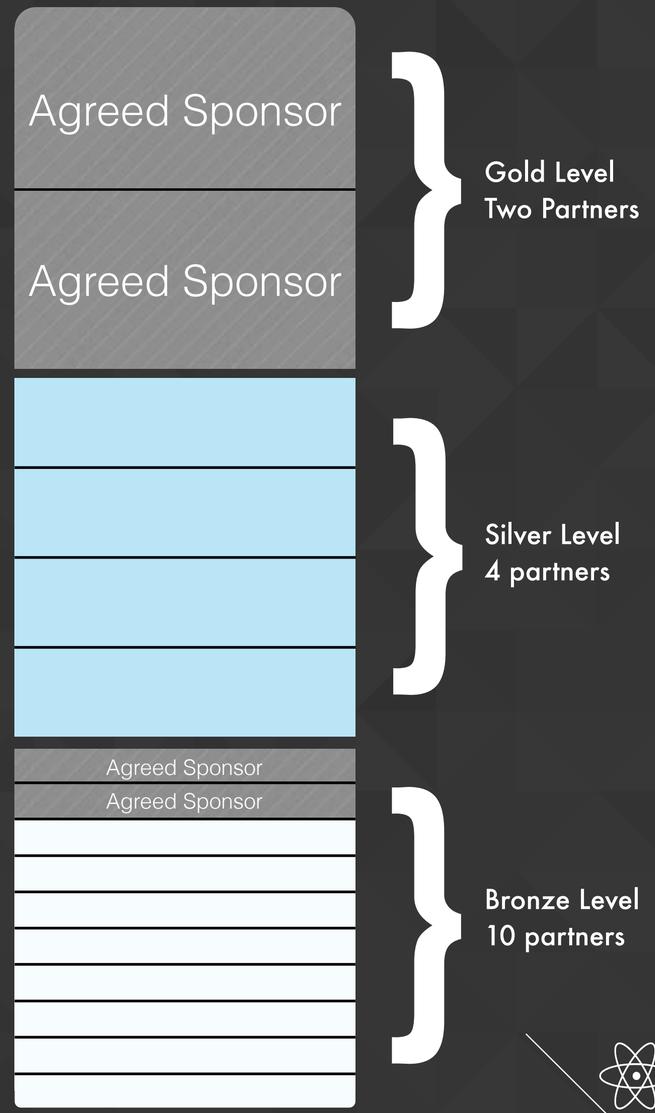
Access to research reports, direct career conversations, personal liaise with the University/College/Course, opportunity to represent the company at a conference, or on an industry panel.

+ all Bronze benefits.

Bronze: £1000 Sponsorship (8 available).

Direct interview and commentary access, introductions to staff and alumni at the University, access to research content, personal blog posts focussing directly on the relationship, conversations about writing particular articles, thesis thanks and detailed sponsorship comments.

These levels are not final - they are subject to change with individual discussion.



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Sponsor Case Study: Nuclear Risk Insurers Ltd.

I'm delighted to be able to confirm Nuclear Risk Insurers as a Gold Sponsor.

NRI have a wealth experience at the head of the British Nuclear Industry. Since being established in the 1950s, through excellence they've become the single authority to organise and manage the British nuclear pool, which itself is one of the largest in the world.

As part of our partnership i'll be in close contact with NRI, working with them for research purposes, as well as being available in an ambassadorial role.

More than anything, i'm ecstatic to be working with a team who shares my belief about the power of collaboration and partnership. We're both excited about what the future holds and firmly believe this is the start of a productive and successful partnership. It's a fantastic opportunity for me to be able to draw on the history and experience of NRI, as well as to closely work with such a passionate and motivated team.

7

Sponsor Case Study: Nuclear CC

I'm excited to announce Nuclear CC as a Gold Sponsor for *Partnership*.

Nuclear CC are in an exciting stage of their development as a company, with plans to revolutionise the supply chain, breaking barriers that have long been a potential stumbling block to the industry.

As part of our professional relationship, I'll be able to coordinate closely with the supply chain, and continue to connect with that side of the industry. Nuclear CC offers an opportunity ensure close communication, linking socioeconomic dynamics with geo-political decisions.

This is an excellent opportunity to work with a thriving company as they continue to expand their business. By crossing verticals of the industry, there are some great opportunities for collaboration today, tomorrow and in the future. By beginning this partnership we're confident that together we can have a significant impact on the industry and in turn, the environment and safeguarding the planet's future.

Nuclear CC

Futureproofing your company

8

Key Facts/TL;DR

I'm looking for sponsorship to fund my MPhil studying Nuclear Energy, to allow me to put my front foot forward in the fight against climate change.

I need £30,000 to do it and I need your support in helping me to reach that target.

I'd love to have an opportunity to discuss the benefits for you, and to answer any other questions you have.

I want to collaborate with you; as a partnership we can help to make a global and lasting change.

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Contact

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Thank-you.