



Positive
Off-Grid Solutions

SUSTAINABLE
SOLAR AND
STORAGE
SOLUTIONS



**DELIVERING ON THE UNITED NATIONS
SUSTAINABLE DEVELOPMENT GOALS**

United Nations Sustainable Development Goals

The United Nations has identified a series of 17 Sustainable Development Goals that it intends to achieve by 2030.

The achievement of these goals relies heavily on the active engagement of partners, be they governmental, not-for-profit or commercial in nature. Positive Off-Grid Solutions Pty Ltd (POGS) is well-suited to actively deliver on these through its commercial, humanitarian and philanthropic activities.

The Directors have identified that its products and services are adept at addressing all of the UN Sustainable Development Goals.



Having access to a reliable power source can impact positively on the lives of those living in poverty. The POGS PowerBox Range can:

- Provide power for Small business—which can bring in much needed income to families
- Provide refrigeration— which can help store food for longer and reduce wastage thus improving health and nutrition and also allow cold storage for farmers to preserve produce longer and reduce wastage and improve profit returns
- Reduce household fuel costs and expenditure on energy



The C-Class PowerBox with internal refrigeration facility allows communities in developing countries to store foodstuffs for longer. This benefits both subsistence and commercial farming—perishables can be kept for longer, increasing local food security, but also meaning that commercially farmed produce can be transported to market less frequently, while simultaneously reducing spoilage rates. Further, off-grid refrigeration bolsters access to a varied diet—reducing malnutrition rates in areas that caloric shortfall is not an acute issue.



Refrigeration and maintaining a nutritious and varied diet is just one way that the POGS PowerBox range is able to promote global health and well-being. Refrigeration further allows for the correct long-term and secure storage of medication. In addition, the C-Class PowerBox can be fitted out as an off-grid medical centre or field hospital unit, providing acute medical care in areas and in timeframes that have not previously been possible.



The addition of a reliable power source in a school environment can enhance the opportunities for students to access equipment such as computers and online resources to expand knowledge. The C-Class PowerBox with its range of capabilities can satisfy this requirement.

At home, with a POGS A-Class or B-Class PowerBox providing power to even just provide lighting means that children have better opportunity to complete homework at home after dark and engage in learning activities such as reading to improve these skills.



In large parts of the developing world, traditional and socio-cultural norms still trap countries in poverty as they bar women from economic activities.

With the use of a PowerBox to generate power, women's health and education can be improved with access to much needed medical care and educational opportunities. This has the ability to open up employment opportunities or allow women to create small businesses such as sewing and cooking which can then be sold at local markets and communities. This can empower women, improve equality and allow them to contribute to the financial costs of their household.



6 CLEAN WATER AND SANITATION



Designs for a 'water security' fit-out in the C-Class PowerBox are currently ongoing, and will enable the containerised power station to perform a series of actions, such as desalination, purification and sterilisation of water sources. The Directors are also scoping out the integration of atmospheric water generation technology into the PowerBox range, enabling water to be extracted from the air.

7 AFFORDABLE AND CLEAN ENERGY



Solar energy is cheap for those using it, both in terms of its activation/connection cost and ongoing costs. Furthermore, it eliminates the need for governments and energy suppliers to spend excessive sums on routing grid power over long distances—power access can be quickly 'extended' or delivered to locations as and when the need arises. A large proportion of the infrastructure and telecommunications installations in emerging economics and developing nations is powered by diesel generators, which are expensive to fuel and maintain, and also have considerable climate impact. The PowerBoxes rapidly deployable, stand alone capabilities makes it ideal for all locations and situations.

8 DECENT WORK AND ECONOMIC GROWTH



By providing access to reliable power, POGS can enable subsistence and commercial farmers to increase the efficiency and effectiveness of farming in the world's least developed regions (through the aforementioned reduced downtime through trips to market, reduced spoilage of goods and increased produce quality). Stable electricity supplies also enable the use of more advanced technology, providing home education and income generation opportunities to women and inhabitants of remote communities, simultaneously addressing inequality and promoting economic independence of indigenous cultures.

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



POGS' products and services represent innovative solutions to supporting and enabling infrastructure in remote and regional areas of developed nations, as well as throughout developing nations. This in turn supports innovation and industry in these areas—diversifying local economies and even mitigating some of the climate impact of primary industries.

POGS is looking for Strategic International Partnerships to support developing countries to increase local employment opportunities; improve local skill levels and boost economies.

10 REDUCED INEQUALITIES



The POGS PowerBox range may not be the complete solution to reducing income inequality on a global scale but it is a means of providing developing countries with a tool that can help them to create new industries, improve existing industries and reduce the financial and health burdens caused by the use of fossil fuels. It may just help the poor not keep getting poorer but to instead improve living and health conditions thus creating a better life.

11 SUSTAINABLE CITIES AND COMMUNITIES



As populations in cities rise, so do the pollution issues associated with continuing to use traditional power generation methods. Increasing the use of clean and green renewable energy power generation can help reduce the pollution issues and give people even more to love about cities.

The installation of a POGS PowerBox or BESS system, will not only reduce pollution issues but can also assist the reduction of the power generation costs of public infrastructure and buildings resulting in saved funds can be redirected to create affordable housing for those in need and upgrade slum settlements.





Reducing waste around the world is a very achievable goal with the use of POGS PowerBox. In developing countries, 45% of all fresh produce is spoilt before reaching market places or consumers due to a lack of refrigerated storage. Just this one simple device, that a lot of us take for granted, could be life changing for the producers and consumers of fresh produce. At POGS we believe that renewable energy powered refrigeration that could cut per capita food waste in half globally is achievable!



POGS' products and services are designed to reduce public and industrial dependence on non-renewable energy in favour of clean sources. Business units such as the distribution of Building Integrated Photovoltaic construction materials and the brokering Solar Purchasing Agreements are dedicated to reducing fossil fuel usage in developing nations around the world.



Our oceans are one of our most precious resources and the actions of humans, are severely impacting on the world's fish populations and the condition of the oceans water. One of the major impacts is that of carbon dioxide produced by humans. By continuing the use of coal and diesel fuelled power stations, we are further impacting on this precious resource.

The introduction of the POGS PowerBox range as a renewable energy power source will assist in the reduction of the carbon dioxide emissions from these toxic power generation methods and help save our precious resources.



Protecting, restoring and promoting the sustainable use of all land is a huge job but POGS believe that they have some innovative solutions that will help to conserve and restore the use of our most effected ecosystems. With the use of POGS' range of rapidly deployable and mobile stand-alone power systems, we can reach the most remote areas to create power for pumping systems for bores that could assist to access deep underground water that could be used to restore life to our forests, wetlands, drylands and mountains.



At POGS we believe that everyone has the right to live a peaceful and inclusive life. With the provision of POGS renewable energy power solutions, we can help improve the basic human rights of people such as to have fresh water, fresh food, access to medical support and to feel safe. The access to renewable power can also allow the creation of small businesses and more employment opportunities which in turn can produce more taxes for authorities in developing countries to be able to fund lasting solutions to conflict and security.



The UN is seeking support from commercial and not-for-profit institutions both in the pursuit of the Sustainable Development Goals, as well as addressing specific and acute needs that fall with them. POGS is actively working with a number of developing countries to assist in increasing their access to the most basic of needs—Power. With the availability of a reliable safe and green power source, the people of these countries will be able to achieve improvements in their health, education, employment opportunities and alleviate poverty levels.



For additional information as to how Positive Off-Grid Solutions is able to actively address the United Nations Sustainability Development Goals, as well as other common-good causes, please do not hesitate to contact:

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