GROWING . VILLAGE . LIFE

AGSOL
SOLAR AGRO-PROCESSING MACHINES

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THE GLOBAL CHALLENGE

Over a billion of the world’s poorest people have no access to electricity. The majority are farmers who live in rural areas and depend on agriculture for their livelihoods. The most important staple food crops that these people depend on are maize, rice and cassava. All of them require processing before they can be eaten or sold.

Current options for poor off-grid farmers to process their staple foods are limited. They can process inefficiently by hand, use failure-prone small diesel mills, or pay a premium to process at centralized mills, often in remote townships. These options are time-consuming, unreliable and expensive, and help keep the world’s poorest stuck in a cycle of poverty.

“ENERGY IS THE GOLDEN THREAD THAT CONNECTS ECONOMIC GROWTH, SOCIAL EQUITY AND ENVIRONMENTAL SUSTAINABILITY.”

FORMER UN SECRETARY GENERAL BAN KI MOON

THE AGSOL SOLUTION

Agsol makes efficient, robust and affordable solar powered agro-processing machinery that process vitally-important staple food crops, and simultaneously provide access to meaningfully scaled solar power for other crucial everyday needs – refrigeration, water supply, computers, communications, TVs/DVDs, lighting and much more.

Agsol’s unique and life-changing solar powered agro-processing machines:

- Process staple foods into edible and higher value products
- Transform lives through access to flexible and adaptable solar power
- Generate new income and increase economic activity in rural villages
- Improve labour efficiency, especially for women and girls
- Quickly pay for themselves and the solar power system

Visit agsol.com for more details on our history and evolution.
HOW OUR SOLUTION IS DIFFERENT

Agsol’s machines are purpose built to operate in off-grid or weak grid environments. That means they can be powered by a standalone solar system, a solar micro-grid or an unreliable grid. They are designed to be flexible and can be powered from off-the-shelf solar components readily available in every country across the globe.

Solarising agro-processing machines offers another important benefit: they can be sold under a lease-purchase digital financing model referred to as a pay-as-you-go (PAYG). Agsol and our dealers can offer customers a product on an affordable payment plan through mobile banking.

Agsol’s machines fill an unserved market gap. To manually process food a human can create about 200W of power, whilst the smallest diesel mills generate 2,500W. Agsol’s machines operate within 500W-1,200W – the sweet spot for village-scale production.

The Agsol range of solar powered machines:

1. Are powered by efficient DC motors that are maintenance free
2. Process food at 30-80 kg/hr – up to 50 times faster than manual processing
3. Have production capacities sufficient to serve a village of 50-300 households
4. Can be operated in multiples for larger villages
5. Are powered by standard off-the-shelf solar components
6. Are very easy to operate
WHO WE ARE

Agosol is a social enterprise operating in commercial markets and generating profit from sales. It was incorporated in 2016 by long-term collaborators and friends, Matt Carr and Greg Denn. Matt is an energy access specialist and Greg is a seasoned expert in manufacturing agricultural machines. Combined, they have more than 40 years of experience working with poor farmers across three continents.

Agosol’s machines are designed in Australia, manufactured in China and sold via a global network of in-country dealers. These are typically solar or agri-tech suppliers, micro/small energy utilities, or productive asset leasing companies. Agosol leverages support from international donors and non-profits to enter new markets.

WHERE WE ARE, WHERE TO NEXT

In just two years, Agosol has sold nearly 600 of its 1st generation solar machines throughout the Pacific region. Agosol is presently developing its 2nd generation proprietary machines, due for release in 2018. To coincide with their launch, Agosol will establish a business base in East Africa. Our new machines will be:

- Super-efficient – most efficient in class, designed by us and with our own I.P.
- Reliable – 3 year warranty, 5 year maintenance free, 10 year design life
- Smart – integrated IoT to make them exceedingly user friendly, PAYG ready, and provide real-time monitoring

“WHEN AGRICULTURE STIMULATES GROWTH, IT IS TWICE AS EFFECTIVE AT REDUCING POVERTY THAN ANY OTHER SECTOR.”

AFRICAN DEVELOPMENT BANK