About us

Since 2001 Project Support Services Limited have provided an integrated consultancy, design and supply service for all types of appropriate technology, agricultural machinery and downstream processing equipment in Papua New Guinea and the Pacific islands.

Over the last two decades we have manufactured and supplied a comprehensive range of products and provided project solutions to support and encourage rural development in remote locations. Our focus has been the on agriculture mechanisation, downstream processing, the production and sustainable use of renewable energy. In 2010 we established a logistic and supply facility in Hong Kong with a factory facility near Shenzhen, China and since then we have been better able to service and support international clients.

In 2013 we took a decision to apply our accumulated experience more directly towards the development of products that promoted the integration of solar energy and staple crop food processing.

Why did we see this new initiative as so important?

Around the world in the poorest communities a great deal of time and energy is spent in processing essential food crops. Many of these communities also lack access to electricity.

Just 15 Crops make up the vast bulk of food energy consumed. 65% of that food energy comes from just 3 crops, rice, maize and cassava. Each of these require energetic and time consuming processing before consumption.

Mostly women and children carry this daily burden, typically requiring from 30 to 60 minutes a day per household where there is no electricity. There are 250 Million persons involved daily in this work. If we could free them from this burden it would be the equivalent to freeing up the entire labour force of the United Kingdom or the country of Italy.

It is widely accepted that electrification is vital tool in sustainable development.

Solar powered agro-processing machinery can solve both issues and create additional advantages. Small scale modularized solar powered machinery and power generating plants have the advantage of being easily adaptable to the specific needs of a community.

We can add value to these products with household lighting and power, clean water systems, refrigeration, communication equipment and much more – that is true village electrification, that comes as a benefit from tackling food security, poverty and sustainable development issues.

In addition we are able to enhancing the systems with GPS tracking data recording and pay as you go technology along with innovative finance solutions.

Our solar agro-processing systems are not just a smart way to process essential food crops, they can become a stepping stone or even a giant leap forward on the road to sustainable development.
PSS solar powered food processing systems

Our machines:

We offer an adaptable range of robust, efficient and affordable machines that process essential crops and are compatible with solar power systems. Specifications can be tailored to community needs.

The machines have advantages:

- zero fuel costs
- very low maintenance
- long machinery life
- high energy efficiency
- ease of operation
- cost effective
Power platform

The PSS Power Platform is an adaptable power unit that can run multiple machines and devices. At the heart of the Platform is the Smart Solar Control Box. It comes with high amp 12V 24V 48V outlets that can power milling machines, clean water supply, small businesses or a nanogrid. It also has low amp 12V outputs for lights, phone chargers and small appliances.

With the Power Platform you can grow your system over time using our simple plug-and-play system to add solar panels, batteries, other machines, devices.
Combination Rice Mill
White or brown rice production from paddy rice
- 80-140 kg/hr
- 1200W 48V BLDC motor

Rice Huller
Brown rice production from paddy rice
- 40-45 kg/hr
- 100W 48V BLDC motor

Rice Polisher
White rice production from brown rice
- 40-45 kg/hr
- 1200W 48V BLDC motor
Hammer Mill
Flour production from corn, dried cassava, soy bean or other grains
- 80-120 kg/hr
- 1200W 48V BLDC motor

Maize Mill
Flour production from corn, dried cassava, soy bean or other grains
- 40-45 kg/hr
- 100W 48V BLDC motor

Maize Thresher
Hulls corn kernels from dry cobs
- 800-1200 kg/hr
- 1000W 48V BLDC motor
**Mincer**

Mincer for meat, vegetable or kava etc. or as a fish poultry or Cattle pellet waker

- 400-500Kg/hr
- 1200W 48V BLDC motor

**Cassava Grater**

Grated cassava or other root vegetables

- 40 kg/hr
- 200W 12V/24V brushed DC motor

**Combination Cassava Grater+Coconut Scraper**

Grated cassava or other root vegetables; Shredded coconut from fresh nuts

- 40-60 nuts/hr, wet cassava 40 Kg/hr
- 200W 12V/24V brushed DC motor
PROJECT SUPPORT SERVICES

www.psspng.com

pss@psspng.com