

Complete Community Solutions

SolEco Limited set its sights on providing communities around the world with ecologically safe and environmentally positive waste and water management solutions. This starts with cleaning wastewater for reuse; it includes cleaning sewerage and septic systems; providing irrigation and drinking water; and ensuring the communities domestic, agricultural and industrial waste is disposed of in an efficient, clean and useful manner.

We began by developing a Natural Bio-Organic solution that has revolutionised the remediation of wastewater. By massively enhancing the growth and reproduction of bacteria that positively impact on the quality of the wastewater, out-competing those bacteria that traditionally cause septicity and malodours, we can reduce the power used in treatment plants; reduce the maintenance costs and downtime; eliminate odours; clean pipes from fats, oil and grease; and extend the life of the plant by many years.

We actively sought other companies with technologies and ideals that matched our own and entered into a Strategic Alliance with Aqueous Solutions – an Australian company with a long and successful track record in the design, engineering and operation of both transportable sewage treatment plants and potable water desalination units. Aqueous are using our Natural Bio-Organic solution in the pre-treatment of effluent in their STP's which improves throughput and reduces their maintenance costs. The transportable nature of their design means they can be scaled to suit individual community's needs and delivered in a 'plug and play' manner.

Having resolved the issue of sewage waste, we sought a solution for the other forms of waste a community produces. Traditionally, much of this waste ends up in a landfill, costing the environment and the community. Consequently, we entered into a partnership with Ag-Bio Power from Iowa, USA.

Ag-Bio Power has developed a patented downdraft gasifier capable of using virtually all of a community's domestic, agricultural and industrial waste to create tremendous heat and syngas in a clean and green way. This heat and syngas is then used to generate electricity for the community, including providing power for the STP and potable water units.

There are many communities that are remote; that need 'instant' solutions or has no existing wastewater or drinking water infrastructure. Whether it is an isolated village, a mining or military camp or in disaster relief, SolEco is now positioned to offer cost-effective and comprehensive solutions that can be transported to virtually any location as 'ready to go' units: Just connect them up and turn them on.

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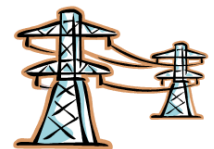
Agricultural,
community &
industrial
biomass waste



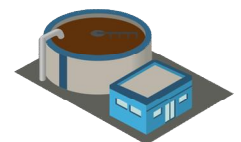
fuels a clean
biomass gasifier



to produce
electricity



which powers
sewage treatment



providing water &
fertiliser for crops
(creating more
biomass)



and drinking
water

