Spectrum Renewable Energy Ltd

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Spectrum Renewable Energy is a global biogas company dedicated to providing innovative renewable energy solutions for the organic waste management and agriculture sectors. Spectrum Renewable Energy offers organic waste producers a comprehensive spectrum of services including project management, plant design, construction, as well as maintenance and technological support. SREL works to profitably generate renewable energy, better our environment, reduce waste management costs, and create new forms of revenue.

Spectrum Renewable Energy, more specifically, provides a start to finish solution that converts organic waste into Bio-CNG and organic manure/soil enhancer that results in increased industrial and farmer productivity and a cleaner environment.
Products

Compressed Biogas (CBG)
Biogas is a form of renewable energy that can be used as natural gas, further processed into compressed natural biogas, or be used to generate electricity:

• Natural gas – After the biogas is processed and scrubbed of its impurities, it may be used as a natural gas replacement for onsite use, or heating purposes

• Compressed BioGas (CBG) – After the biogas is processed and scrubbed of its impurities, it is pressurized and becomes CBG. This CBG can be either filled in cylinders or caskets for easy industrial or transportation use. Currently, SREL is selling CBG to industrial customers for melting purposes and bakers and hotels for cooking purposes.

• Electricity – Biogas is also used in onsite combined heat and power (CHP) units to produce electricity. This electricity can also be used onsite, sold into the electric grid or used at an industrial site. The waste heat generated by the CHP is currently being used to help run the Warana CBG project.

Organic Manure/Soil Conditioner
Our biogas processes also produce a nutrient-rich organic manure/soil conditioner that can be used to cultivate new crops on farms, or grow a variety of fruits and vegetables in home or commercially-sized gardens. SREL has established that the organic manure/soil conditioner by-product from the plant has beneficial microorganisms, and when applied to seeds, roots or soil, helps build up the micro-flora and thus improves the general soil health. Usage of organic manure will also reduce the use of chemical fertilizers and pesticides.

Liquid Bio-Fertilizers (Digestate)
The Eco-friendly liquid Bio-fertilizers (LBF) are suspensions having useful microorganisms. LBF’s have a shelf life of a minimum of one year and have no health hazards for production workers and are easy to transport. Additionally, LBF’s can be used in drip irrigation and as a component of organic farming. Bio-fertilizers are a broadly categorized in three ways as Nitrogen Fixing, Phosphate mobilizing and organic matter decomposers. Thus they are more Eco-friendly compared to chemical fertilizers.
Incubation support from ABI-ICRISAT

Area of business: Renewable Energy

SREL approached ABI ICRISAT for technical consultancy, product field trails and validation support and business development & promotion at events and exhibitions.