

## Proof of Performance

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### Mobil Pegasus 610

**Cannington Bio Energy**  
Swanks Farm, Cannington, Bridgewater

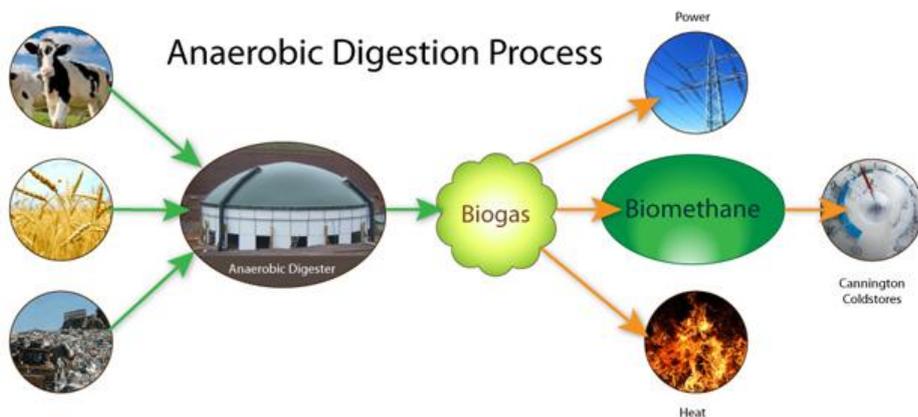
Mobil Pegasus 610 is providing excellent service in 4 MAN V12. Gas engines at one of this country's most innovative and fast growing Companies.



Cannington Bio Energy and associated Companies operate from originally a farm site in the picturesque Somerset countryside close to the market town of Bridgewater. They specialise in anaerobic digestion, which is the process of turning organic material into a renewable energy source.

The biogas plant consists of four large digesters which take waste from numerous sources, transform it in a green gas which is then used to power 4 Man Gas engines which produce Electricity for all the other activities on the site and also feedback power to the Grid. The facility has the capacity to provide 2.6MW of electricity: enough to power more than 4000 homes.

This schematic below illustrates the processes involved on this site and the benefits that are available from this emerging technology:



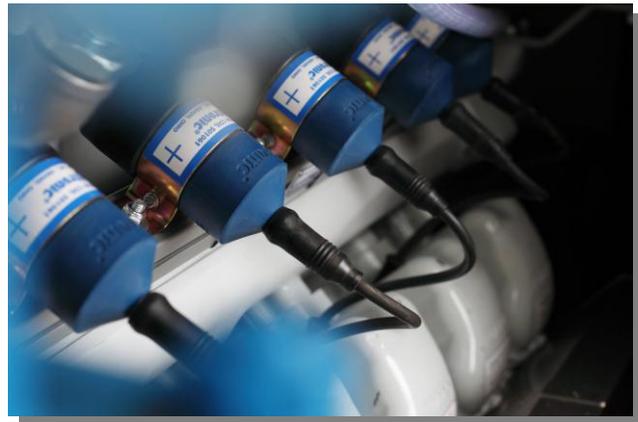
Mobil Pegasus 610 has been the Engine oil of choice used by Cannington for the last 3 years and has provided excellent service with many benefits and cost savings.

The unique properties of this oil provide an additional margin of protection in applications of this type where the Biogas fuel can contain corrosive materials such as hydrogen sulphide or halogens which are compounds of chlorine and fluorine and TOHCl (Total Organic Halides as Chloride).

The engines have been brought into service over the last 2 years and are running 24/7 and to date have given trouble free service. With regular oil analysis an average of 750 hours is being achieved before the oil requires renewal and one engine has now approaching 10000 hours service running without the need for major overhaul.

Matt Smith, Chief Engineer in charge of the plant, has said:

“We are most happy to endorse the use of Pegasus 610 in this type of Energy producing system. Pegasus 610 has been proved to exceed our expectations and we are particularly pleased with how clean all four of our engines are which has contributed greatly to keeping our overall maintenance and running costs to the absolute minimum. The experience and knowledge we have obtained from this operation is continually expanding in this developing technology and this has helped us towards winning a number of awards in our Industry in the UK.”



*MAN V12 Engine in operation (left) and Ignition coils (right).*