



# Energy from waste

## HOW BETTAPORK SETS STANDARDS FOR SUSTAINABLE AGRICULTURE WITH BIOGAS



*Sustainable energy for sustainable pork:  
BettaPork relies on biogas technology from  
2G.*

BettaPork is one of Australia's leading producers of sustainable pork, specializing in the production of high-quality, environmentally friendly pork products. In 2015, our partner Evo Energy Technologies, in collaboration with 2G Energy AG, supplied BettaPork with two filius 106 100 kW biogas engines in a twinpack container module and, in 2019, another 2G agenitor 408 360 kW biogas engine, which converts BettaPork's organic waste into energy.

**Energy from waste: how BettaPork is setting standards for sustainable agriculture with biogas**

By using these advanced technologies, BettaPork saves hundreds of thousands of dollars in energy costs each year while benefiting the environment. The filius & agenitor CHP solution for BettaPork converts 120,000 liters of organic waste into around 200 kW of power every day - enough to power the entire farm and the Brosnan family's home for most of the day.

The waste in the tanks is eaten by organisms that consume the organic material and then excrete the gases as methane. The methane floats to the top of the tank, where it is fed through stainless steel pipes under extremely low pressure to a generator, which passes it through a carbon filter to remove hydrogen sulphide. Finally, the methane enters the CHP engines, which are designed to run on gas instead of fuel.

By working with local schools, abattoirs and restaurants, more organic waste that would otherwise end up in landfill is used to generate more clean energy. In addition, the approximately 100 kW of surplus energy generated will be used for the Australian Piggery, generating additional revenue.



#### **BettaPork**

agenitor 408

Biogas

360 kW electric

373 kW thermal

